



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: July 7, 2026

Effective Date: July 7, 2026

Expiration Date: July 6, 2031

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: 41-00001

Federal Tax Id - Plant Code: 74-1079400-8

Owner Information

Name: TRANSCONTINENTAL GAS PIPE LINE CO LLC

Mailing Address: PO BOX 1396
HOUSTON, TX 77251-1396

Plant Information

Plant: TRANSCONTINENTAL GAS/SALLADASBURG STATION 520

Location: 41 Lycoming County 41931 Mifflin Township

SIC Code: 4922 Trans. & Utilities - Natural Gas Transmission

Responsible Official

Name: JENNIFER ELLIOTT

Title: VP GMEASTERN INTERSTATES

Phone: (281) 222 - 7693

Email: Jennifer.Elliott@williams.com

Permit Contact Person

Name: MICHAEL HAHN

Title: ENVIRONMENTAL SPECIALIST

Phone: (267) 207 - 1778

Email: Michael.Hahn@williams.com

[Signature] _____

MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



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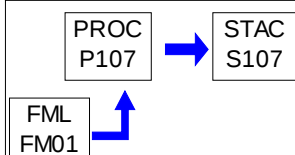
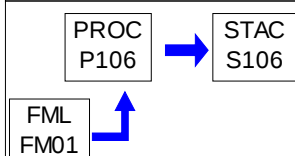
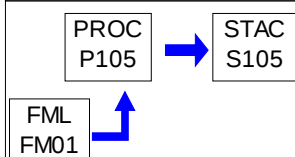
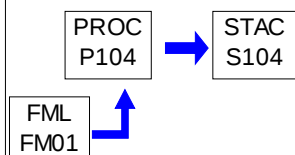
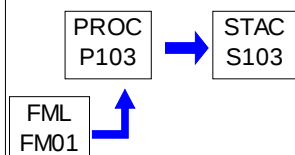
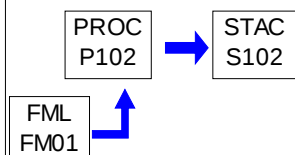
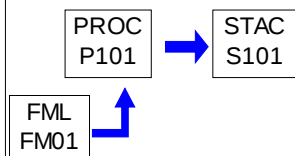
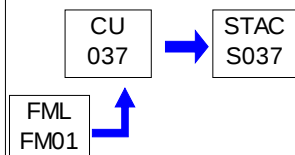
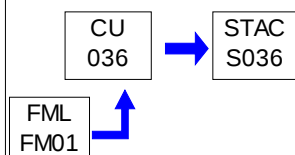
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
036	CYCLOTHERM BOILER 2800-L-N	3.500 MMBTU/HR	
		10.000 MCF/HR	Natural Gas
037	SPACE HEATERS		
P101	I-R ENGINE 1 412-KVS 2050 HP LEC RETRO	15.900 MCF/HR	Natural Gas
P102	I-R ENGINE 2 412-KVS 2050 HP LEC RETRO	15.900 MCF/HR	Natural Gas
P103	I-R ENGINE 3 412-KVS 2050 HP LEC RETRO	15.900 MCF/HR	Natural Gas
P104	I-R ENGINE 4 CLN BRN/LEC 412-KVS	15.900 MCF/HR	Natural Gas
P105	I-R ENGINE 5 CLN BRN/LEC 412-KVS	15.900 MCF/HR	Natural Gas
P106	SOLAR MARS TURBINE 1 (12,600 HP)	112.800 MCF/HR	Natural Gas
P107	SOLAR MARS TURBINE 2 (12,600 HP)	112.800 MCF/HR	Natural Gas
P109	PIPELINE VALVES & FLANGES		
P110	GENERATOR WAUKESHA 2895GL (668 HP)	N/A	Natural Gas
P112	PARTS WASHERS		
P114	STORAGE TANKS >2000 GALLONS		
P116	SOLAR TITAN 130S TURBINE		
P117	1175 BHP EMERGENCY GENERATOR		
P118	SER SOLAR MARS 100 TURBINE	139.000 MMBTU/HR	
P119	1065 BHP EMERGENCY GENERATOR		
FM01	NATURAL GAS PIPELINE		
S036	BOILER STACK		
S037	HEATER STACK		
S101	ENGINE 1 STACK		
S102	ENGINE 2 STACK		
S103	ENGINE 3 STACK		
S104	ENGINE 4 STACK		
S105	ENGINE 5 STACK		
S106	TURBINE 1 STACK		
S107	TURBINE 2 STACK		
S110	WAUKESHA GENERATOR STACK		
S116	TITAN 130S STACK		
S117	EMERGENCY GENERATOR STACK		
S118	SER MARS 100 STACK		
S119	EMERGENCY GENERATOR STACK		
Z109	FUGITIVE EMISSIONS		
Z112	PARTS WASHER EMISSIONS		
Z114	TANK FUGITIVE EMISSIONS		

PERMIT MAPS



PERMIT MAPS





PERMIT MAPS

PROC
P109 → STAC
Z109

PROC
P110 → STAC
S110

FML
FM01 →

PROC
P112 → STAC
Z112

PROC
P114 → STAC
Z114

PROC
P116 → CNTL
C116 → STAC
S116

FML
FM01 →

PROC
P117 → STAC
S117

FML
FM01 →

PROC
P118 → CNTL
C118 → STAC
S118

FML
FM01 →

PROC
P119 → STAC
S119

FML
FM01 →

**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 Air Pollution Control Act (35 P.S. §§ 4001-4015).

#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

**SECTION B. General Title V Requirements**

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 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.

**SECTION B. General Title V Requirements****#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.

#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.

**SECTION B. General Title V Requirements****#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].

#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.

**SECTION B. General Title V Requirements****#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.
- (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

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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.

(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.

**SECTION B. General Title V Requirements**

(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 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

**SECTION B. General Title V Requirements**

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 § 127.513]**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.

#025 [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.
- (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.

**SECTION B. General Title V Requirements****#026 [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.

#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:

**SECTION B. General Title V Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
- (2) The permittee shall submit any additional relevant information requested by the Department or 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.
- (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.

**SECTION B. General Title V Requirements**

(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) Sources and classes of sources other than those identified above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (a) The emissions are of minor significance with respect to causing air pollution.
 - (b) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

002 [25 Pa. Code §123.2]**Fugitive particulate matter**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[Additional authority for this permit condition is derived from 40 CFR Part 60 Subpart GG Section 60.335(d)]

The permittee shall test the fuel gas used for all sources at the facility for sulfur content, in accordance with the custom fuel monitoring plan approved by EPA for the facility.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code §§123.1, 123.31, 127.1 and 127.12]

(a) Within 180 days after the start-up of an air contamination source, the permittee shall develop a leak detection and

**SECTION C. Site Level Requirements**

repair (LDAR) program and perform LDAR monitoring.

(b) The LDAR monitoring must be conducted on each pump, valve, relief valve, flange, connector, storage vessel/storage tank, open ended line and compressor seal, if applicable, in natural gas or hydrocarbon liquids service using an optical gas imaging camera such as a FLIR camera or a gas leak detector capable of reading methane concentrations in air of 0% to 5% with an accuracy of +/- 0.2%.

(c) The permittee may request, in writing, the use of other leak detection monitoring devices, to be approved, in writing, by the Department. Such LDAR monitoring equipment shall be operated in accordance with manufacturer-recommended procedures and, where applicable, Method 21 specified in 40 CFR Part 60, Appendix A. Each LDAR monitoring device shall be calibrated before use on each day of its use by following the manufacturer-recommended procedures or the procedure set forth at Method 21 specified in 40 CFR Part 60, Appendix A.

(d) Leak means:

- i) Any emissions imaged by the optical gas instrument;
- ii) Indications of liquids dripping;
- iii) Indications by a sensor that a seal or barrier fluid system has failed;
- iv) Screening results using a gas leak detector exceeding 2.5% methane and/or 500 ppm of VOCs.

(e) A release from any equipment or component designed by the manufacturer to protect the equipment, controller(s), safety of personnel, to prevent ground water contamination, to prevent gas migration, or an emergency situation is not considered a leak.

(f) The permittee shall monitor each pump, valve, relief valve, flange, connector, storage vessel/storage tank, open ended line and compressor seal, if applicable, in natural gas or hydrocarbon liquids service at least annually.

(g) Leaks shall be repaired no later than 15 calendar days after a leak is detected, unless facility shutdowns or ordering of replacement parts is necessary for repair of the leak(s).

(h) A leak is considered repaired if it is adjusted or otherwise altered and one of the following can be demonstrated after such adjustment or alteration:

- i) No detectable emissions consistent with EPA Method 21 specified in 40 CFR Part 60, Appendix A;
- ii) A concentration of 2.5% methane or less using a gas leak detector and a VOC concentration of 500 ppm or less;
- iii) No visible leak image when using an optical gas imaging camera; if an optical gas imaging camera was originally used to detect the leak;
- iv) No bubbling at leak interface using a soap solution bubble test specified in EPA Method 21; or a procedure based on the formation of bubbles in a soap solution that is sprayed on a potential leak source may be used for those sources that do not have continuously moving parts and that do not have a surface temperature greater than the boiling point or less than the freezing point of the soap solution; or
- v) Any other method approved, in writing, by the Department.

(i) If a leak is not repaired within fifteen (15) days after it is detected, the leaking equipment or component must be listed on a Delay of Repair (DOR) List. The owner or operator must submit a written request to the appropriate regional office for an extension of the 15 day repair deadline. This includes extensions required due to facility shutdowns and/or the ordering of replacement parts. The written request shall also include the reason(s) for the extension request and the schedule for completion of the repairs. The Department may grant an extension of the LDAR deadline based upon the written request.

(j) The optical gas imaging camera or other Department-approved gas leak detection equipment shall be operated in accordance with manufacturer-recommended procedures. For the storage vessel, if applicable, any leak detection and repair must be performed in accordance with 40 CFR Part 60, Subpart OOOO.

(k) The permittee shall, at a minimum, on a monthly basis perform audible, visual, and olfactory (AVO) inspections to detect leaks from the equipment listed above. If a leak is detected during an AVO inspection, the leak will be considered repaired when the leak can no longer be detected during an AVO inspection after the leak has been repaired.

**SECTION C. Site Level Requirements****# 008 [25 Pa. Code §139.1]****Sampling facilities.**

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

009 [25 Pa. Code §139.11]**General requirements.**

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

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

- (1) A thorough source description, including a description of any air cleaning devices and the flue.
- (2) Process conditions, for example, the charging rate of raw materials or the 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 CO, CO₂, O₂ and N₂), static and barometric pressures.
- (5) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
- (6) Laboratory procedures and results.
- (7) Calculated results.

III. MONITORING REQUIREMENTS.**# 010 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

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

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

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

**SECTION C. Site Level Requirements**

to determine:

- (1) The presence of visible emissions,
 - (2) The presence of visible fugitive emissions,
 - (3) The presence of audible fugitive emissions,
 - (4) The presence of malodors beyond the boundaries of the facility.
- (b) The detected visible emissions and visible, audible or olfactible fugitive emissions that have the potential to exceed applicable standards shall be reported to the manager of the facility.
- (c) If the facility becomes unmanned during the term of this permit, the company shall provide written notification to the Department and the monitoring shall be conducted on a monthly basis.

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

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

- (a) The permittee shall keep a logbook of the facility's weekly inspections. The logbook shall include the name of the company representative performing the inspection, the date and time of inspections, any instances of exceedances of visible emissions limitations, visible fugitive emissions limitations, audible emissions limitations, and malodorous air emissions limitations, and the name of the manager informed if a potential exceedance is observed. The permittee shall also record any and all corrective action(s) taken to abate each recorded deviation to prevent future occurrences.
- (b) The permittee shall maintain all LDAR monitoring data, including calibration data, identification of leaking components, date of leak discovery, date of each attempted repair and date of final repair.
- (c) These records shall be kept for a minimum of 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.**

Upon request by the Department, 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.**

- (a) The permittee shall submit the annual compliance certifications to the Department and EPA Region III, as specified in Condition #024 of Section B, General Title V Requirements, no later than September 1 (from July of the previous year through June of the current year).
- (b) The permittee shall submit the semi-annual reports of required monitoring to the Department, as specified in Condition #023 of Section B, General Title V Requirements, no later than September 1 (for January through June) and March 1 (for July through December of the previous year)

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

The permittee shall notify personnel at the Salladasburg Elementary School as soon as practicable of any planned or emergency blowdowns occurring at Compressor Station 520 at times when the school is in session.

016 [25 Pa. Code §127.442]**Reporting requirements.**

Malfunctions, Emergencies or Incidents of Excess Emissions

**SECTION C. Site Level Requirements**

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

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

(c) The report shall describe the following:

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

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

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

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

(g) Any emissions which 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.

017 [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 (VOCs) 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 preceding calendar year 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.

(c) The Department may require more frequent submittals if the Department determines that one or more of the following applies:

- (1) A more frequent submission is required by the EPA.

**SECTION C. Site Level Requirements**

(2) Analysis of the data on a more frequent basis is necessary to implement the requirements of the Air Pollution Control Act.

VI. WORK PRACTICE REQUIREMENTS.**# 018 [25 Pa. Code §123.1]
Prohibition of certain fugitive emissions**

The permittee shall take all reasonable actions for any source specified in 25 Pa Code Section 123.1(a)(1-9) to prevent particulate matter from becoming airborne. These actions shall include, but not 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.**# 019 [25 Pa. Code §121.7]
Prohibition of air pollution.**

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

**# 020 [25 Pa. Code §123.31]
Limitations**

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

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

In accordance with 25 Pa. Code Section 129.112(l), the pound per hour nitrogen oxides emission limits for Source IDs P104 and P105 and the volatile organic compound limits for Source IDs P106 and P107 established pursuant to 25 Pa. Code Sections 129.91-129.95 shall remain in effect as they are more stringent than the presumptive RACT III limitations specified in 25 Pa. Code Section 129.112.

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

Sources at this facility are subject to Subpart OOOOa of the federal Standards of Performance for New Stationary Sources, 40 CFR Sections 60.5360a-60.5499a. The permittee shall comply with all applicable requirements specified in 40 CFR Sections 60.5360a-60.5499a.

**# 023 [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 *****

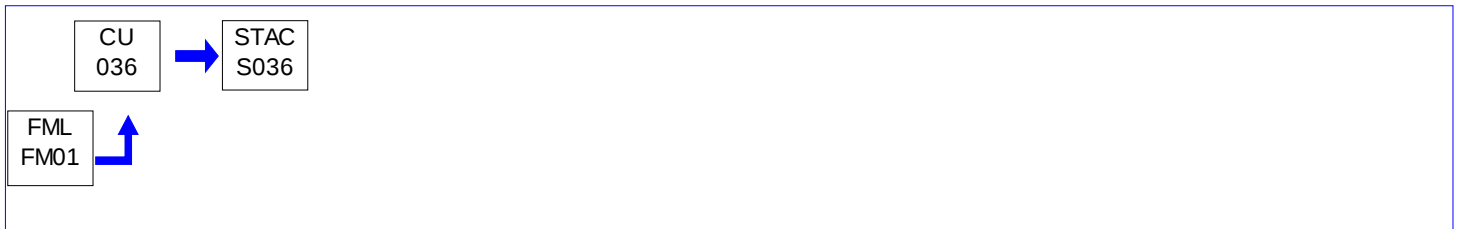
**SECTION D. Source Level Requirements**

Source ID: 036

Source Name: CYCLOTHERM BOILER 2800-L-N

Source Capacity/Throughput: 3.500 MMBTU/HR

10.000 MCF/HR Natural Gas

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

001 [25 Pa. Code §123.11]

Combustion units

No person may permit the emission of particulate matter from Source ID 036 into the outdoor atmosphere in excess of 0.40 pound per million Btu of heat input.

002 [25 Pa. Code §123.22]

Combustion units

No person may permit the emission of sulfur oxides (SO_x), expressed as SO₂ into the outdoor atmosphere from Source ID 036 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 036.

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.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall maintain records to verify that Source ID 036 is installed, maintained, and operated in accordance with the manufacturer's specifications and good operating practices.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7555]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.**What records must I keep?**

The permittee shall comply with all applicable recordkeeping requirements specified in 40 CFR § 63.7555 and 40 CFR § 63.7560 pertaining to Source ID 036.

**SECTION D. Source Level Requirements****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:

Associate Director
Office of Air Enforcement and Compliance Assistance 3AP20
U. S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

and

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

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7545]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****What notifications must I submit and when?**

The permittee shall submit the required notifications specified in 40 CFR § 63.7545 pertaining to Source ID 036.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7550]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****What reports must I submit and when?**

The permittee shall submit all required reports specified in 40 CFR § 63.7550 pertaining to Source ID 036.

VI. WORK PRACTICE 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 129.112(c)(4)]

Source ID 036 shall be installed, maintained, and operated in accordance with the manufacturer's specifications and good operating practices.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7500]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****What emission limits, work practice standards, and operating limits must I meet?**

At all times, the permittee shall operate and maintain Source ID 036, and any associated air pollution control and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7510]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****What are my initial compliance requirements and by what date must I conduct them?**

a) By the compliance date of January 31, 2016, the permittee shall demonstrate compliance for Source ID 036 by completing an initial tune-up by following the procedures described in § 63.7540 and a one-time energy assessment as specified in Table 3 to 40 CFR Part 63 Subpart DDDDD.

**SECTION D. Source Level Requirements**

b) Subsequent tune-ups shall be performed every five (5) years, no more than 61 months after the previous tune-up.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7530]

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

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

a) By the compliance date of January 31, 2016, the permittee shall demonstrate compliance with the emission limitations, fuel specifications, and work practice standards established for Source ID 036 in 40 CFR Part 63 Subpart DDDDD as specified in § 63.7530.

b) After the compliance date, the permittee shall demonstrate continuous compliance via the methods specified in 40 CFR § 63.7540.

VII. ADDITIONAL REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 036 is a natural gas fired boiler manufactured by Cyclotherm model 2800-L-N with a rated heat input of 3.5 MMBtu/hr.

014 [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?

a) Source ID 036 is subject to 40 CFR Part 63 Subpart DDDDD - National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters. Source ID 036 shall comply with all applicable requirements of Subpart DDDDD.

b) Pursuant to 40 CFR § 63.7495, for Source ID 036 the compliance date for Subpart DDDDD is January 31, 2016.

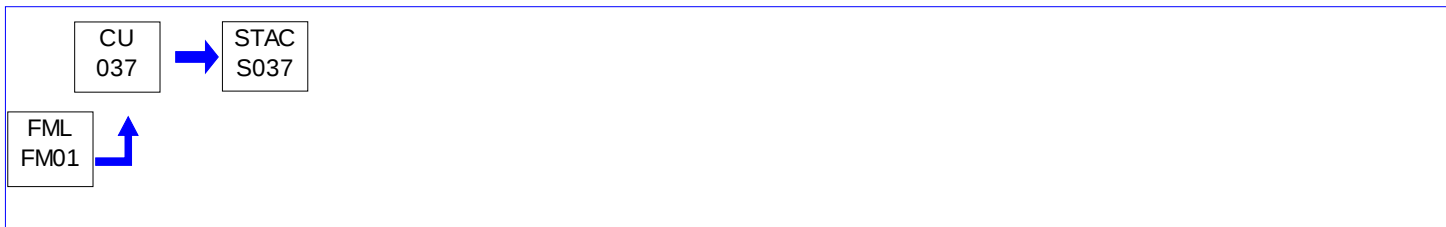
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 037

Source Name: SPACE HEATERS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.22]

Combustion units

No person may permit the emission of sulfur oxides (SO_x), expressed as SO₂ into the outdoor atmosphere from each unit of Source ID 037 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use pipeline quality natural gas as fuel for each unit of Source ID 037.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §129.115]

Written notification, compliance demonstration and recordkeeping and reporting requirements

The permittee shall maintain records that demonstrate to the Department that the heaters contained in Source ID 037 are not subject to 25 Pa. Code §129.112 based on the potential to emit not exceeding the specified emission rate threshold of 1 ton per year of NO_x and/or VOCs.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 037 consists of the following natural gas fired space heaters:

- (a) One (1) Space Heater, Suburban, Model DHV-40, 0.04 MMBtu/hr rated heat input
- (b) One (1) Space Heater, Westinghouse, Model IFO24-PCAO, 0.045 MMBtu/hr rated heat input
- (c) One (1) Space Heater, Modine, Model PA 75 AB, 0.075 MMBtu/hr rated heat input
- (d) One (1) Space Heater, Lennox, Model LF24-150-3, 0.185 MMBtu/hr rated heat input
- (e) One (1) Space Heater, Reznor, Model XL170-3-E, 0.17 MMBtu/hr rated heat input
- (f) Six (6) Space Heaters, Reznor, Model USA-175F, 0.175MBtu/hr rated heat input
- (g) One (1) Space Heater, Hastings., Model F 75 X, 0.075 MMBtu/hr rated heat input
- (h) One (1) Space Heater, Empire, Model GDV-215-6S, 0.015 MMBtu/hr rated heat input
- (i) One (1) Space Heater, Tappan, Model BTA-18-50-4LT, 0.05 MMBtu/hr rated heat input
- (j) One (1) Water Heater, AO Smith, 0.036 MMBtu/hr rated heat input

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

**SECTION D. Source Level Requirements**

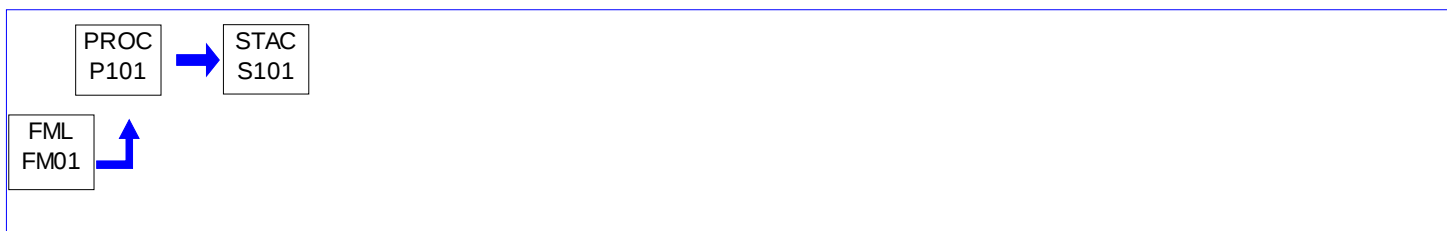
Source ID: P101

Source Name: I-R ENGINE 1 412-KVS 2050 HP LEC RETRO

Source Capacity/Throughput:

15.900 MCF/HR

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID P101, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission of sulfur oxides expressed as SO₂, into the outdoor atmosphere from Source ID P101 in a manner that the concentration of the 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 permittee shall not permit the emission of carbon monoxide (CO) from Source ID P101 in excess of 10.5 pounds per hour.

004 [25 Pa. Code §129.112]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule

The permittee shall not permit the emission of the following air contaminant pollutants from this source in excess of the limitations listed below:

(a) nitrogen oxides (NO_x, expressed as NO₂) - 3.0 grams per bhp-hr,

(b) volatile organic compounds (VOC), excluding formaldehyde - 0.5 gram per bhp-hr.

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 Section 129.91]

The permittee shall use only pipeline quality natural gas as fuel for Source ID P101.

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.91 and 127.511.]

(a) The permittee shall perform semi-annual nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide (CO) testing upon Source ID P101, once in November and once in March of every year, using a Department approved portable exhaust gas analyzer.

**SECTION D. Source Level Requirements**

(b) The EPA reference method testing required for this source may be substituted for the portable analyzer testing required by this condition on a one-for-one basis (one occurrence of reference method testing may be substituted for one occurrence of portable analyzer testing) provided that the reference method testing occurs in accordance with the portable analyzer testing schedule specified herein.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.115 and 127.511.]

(a) No later than five years following the previous stack test of this source, the permittee shall perform an EPA reference method nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide (CO), volatile organic compound (VOC) and non-methane hydrocarbon (NMHC) stack testing on Source ID P101.

(b) All testing is to be done using reference method test procedures acceptable to the Department. All testing is to be performed while Source ID P101 is operating at full load and full speed.

(c) The testing requirements specified in Section C of this Title V operating permit shall be followed.

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.**# 008 [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 and 127.511]

(a) The permittee shall keep records of the following for Source ID P101:

(1) The supporting calculations used to verify the sulfur oxides and particulate matter emission limitations.

(2) The supporting calculations used to verify compliance with the volatile organic compound, nitrogen oxides, and carbon monoxide emission limitations

(3) The test results with calculations from all EPA reference method and portable analyzer stack tests.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.95 and 127.511.]

(a) The permittee shall keep records of the following operating parameters for Source ID P101:

(1) The amount of fuel used per month,

(2) The air manifold and fuel manifold pressures, to be recorded at least once per day,

(3) The timing (BTC) of the source, to be recorded at least once per day.

(b) These records shall be kept 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.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.91 and 127.511]

The permittee shall submit to the Department the semi-annual portable exhaust gas analyzer test reports within 30 days of the completion of each test. The report shall contain the results of the testing (reported on a pound per hour basis), a description of the testing procedures used, copies of all calculations and the specific gas analyzer used during the testing.

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

Source ID P101 is a natural gas fired, four (4) stroke lean burn (4SLB), compressor engine manufactured by Ingersoll-Rand model 412-KVS with an output rating of 2050 Hp, and equipped with a low emission combustion kit.

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

**SECTION D. Source Level Requirements**

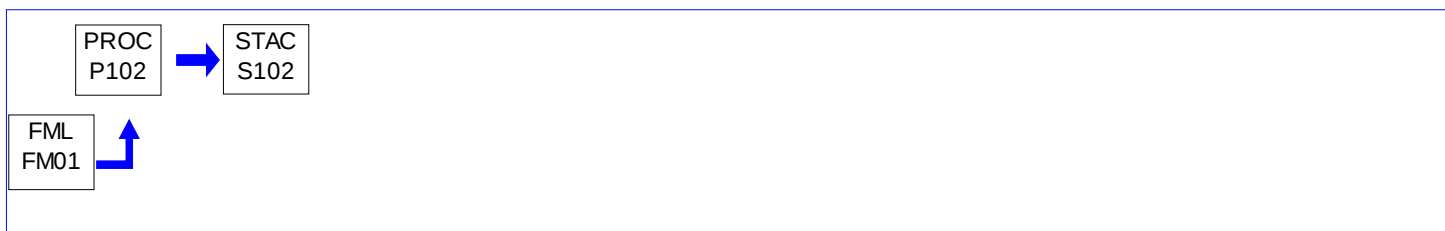
Source ID: P102

Source Name: I-R ENGINE 2 412-KVS 2050 HP LEC RETRO

Source Capacity/Throughput:

15.900 MCF/HR

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID P102, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission of sulfur oxides expressed as SO₂, into the outdoor atmosphere from Source ID P102 in a manner that the concentration of the 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 permittee shall not permit the emission of carbon monoxide (CO) from Source ID P102 in excess of 10.5 pounds per hour.

004 [25 Pa. Code §129.112]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule

The permittee shall not permit the emission of the following air contaminant pollutants from this source in excess of the limitations listed below:

(a) nitrogen oxides (NO_x, expressed as NO₂) - 3.0 grams per bhp-hr,

(b) volatile organic compounds (VOC), excluding formaldehyde - 0.5 gram per bhp-hr.

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 Section 129.91]

The permittee shall use only pipeline quality natural gas as fuel for Source ID P102.

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.115 and 127.511.]

(a) No later than five years following the previous stack test of this source, the permittee shall perform an EPA reference method nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide (CO), volatile organic compound (VOC) and non-methane hydrocarbon (NMHC) stack testing on Source ID P102.

**SECTION D. Source Level Requirements**

(b) All testing is to be done using reference method test procedures acceptable to the Department. All testing is to be performed while Source ID P102 is operating at full load and full speed.

(c) The testing requirements specified in Section C of this Title V operating permit shall be followed.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.91 and 127.511.]

(a) The permittee shall perform semi-annual nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide (CO) testing upon Source ID P102, once in November and once in March of every year, using a Department approved portable exhaust gas analyzer.

(b) The EPA reference method testing required for this source may be substituted for the portable analyzer testing required by this condition on a one-for-one basis (one occurrence of reference method testing may be substituted for one occurrence of portable analyzer testing) provided that the reference method testing occurs in accordance with the portable analyzer testing schedule specified herein.

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.

008 [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 and 127.511]

(a) The permittee shall keep records of the following for Source ID P102:

- (1) The supporting calculations used to verify compliance with the sulfur oxides and particulate matter emission limitations.
- (2) The supporting calculations used to verify compliance with the volatile organic compound, nitrogen oxides, and carbon monoxide emission limitations
- (3) The test results with calculations from all EPA reference method and portable analyzer stack tests.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.95 and 127.511.]

(a) The permittee shall keep records of the following operating parameters for Source ID P102:

- (1) The amount of fuel used per month,
- (2) The air manifold and fuel manifold pressures, to be recorded at least once per day,
- (3) The timing (BTC) of the source, to be recorded at least once per day.

(b) These records shall be kept 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.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.91 and 127.511]

The permittee shall submit to the Department the semi-annual portable exhaust gas analyzer test reports within 30 days of the completion of each test. The report shall contain the results of the testing (reported on a pound per hour basis), a description of the testing procedures used, copies of all calculations and the specific gas analyzer used during the testing.

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

Source ID P102 is a natural gas fired, four (4) stroke lean burn (4SLB), compressor engine manufactured by Ingersoll-Rand model 412-KVS with an output rating of 2050 Hp, and equipped with a low emission combustion kit.

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

**SECTION D. Source Level Requirements**

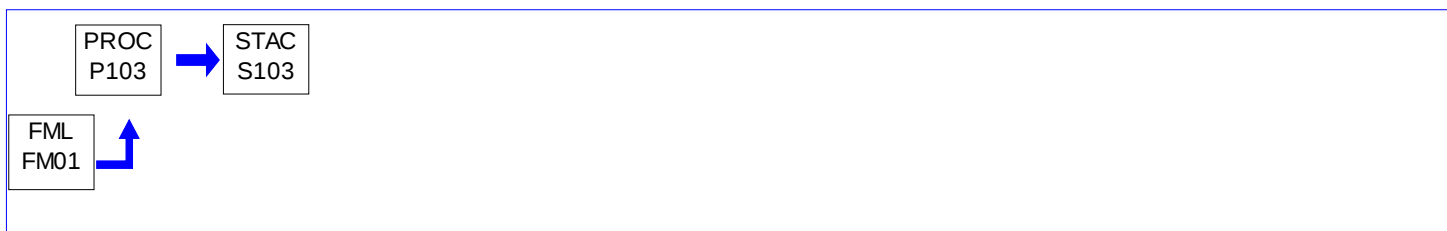
Source ID: P103

Source Name: I-R ENGINE 3 412-KVS 2050 HP LEC RETRO

Source Capacity/Throughput:

15.900 MCF/HR

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID P103, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission of sulfur oxides expressed as SO₂, into the outdoor atmosphere from Source ID P103 in a manner that the concentration of the 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 permittee shall not permit the emission of carbon monoxide (CO) from Source ID P103 in excess of 10.5 pounds per hour.

004 [25 Pa. Code §129.112]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule

The permittee shall not permit the emission of the following air contaminant pollutants from this source in excess of the limitations listed below:

(a) nitrogen oxides (NO_x, expressed as NO₂) - 3.0 grams per bhp-hr,

(b) volatile organic compounds (VOC), excluding formaldehyde - 0.5 gram per bhp-hr.

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 Section 129.91]

The permittee shall use only pipeline quality natural gas as fuel for Source ID P103.

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.91 and 127.511.]

(a) The permittee shall perform semi-annual nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide (CO) testing upon Source ID P103, once in November and once in March of every year, using a Department approved portable exhaust gas analyzer.

**SECTION D. Source Level Requirements**

(b) The EPA reference method testing required for this source may be substituted for the portable analyzer testing required by this condition on a one-for-one basis (one occurrence of reference method testing may be substituted for one occurrence of portable analyzer testing) provided that the reference method testing occurs in accordance with the portable analyzer testing schedule specified herein.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.115 and 127.511.]

(a) No later than five years following the previous stack test of this source, the permittee shall perform an EPA reference method nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide (CO), volatile organic compound (VOC) and non-methane hydrocarbon (NMHC) stack testing on Source ID P103.

(b) All testing is to be done using reference method test procedures acceptable to the Department. All testing is to be performed while Source ID P103 is operating at full load and full speed.

(c) The testing requirements specified in Section C of this Title V operating permit shall be followed.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.95 and 127.511.]

(a) The permittee shall keep records of the following operating parameters for Source ID P103:

- (1) The amount of fuel used per month,
- (2) The air manifold and fuel manifold pressures, to be recorded at least once per day,
- (3) The timing (BTC) of Source ID P103, to be recorded at least once per day.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.115 and 127.511]

(a) The permittee shall keep records of the following for Source ID P103:

- (1) The supporting calculations used to verify compliance with the sulfur oxides and particulate matter emission limitations.
- (2) The supporting calculations used to verify compliance with the volatile organic compound, nitrogen oxides, and carbon monoxide emission limitations
- (3) The test results with calculations from all EPA reference method and portable analyzer stack tests.

(b) These records shall be kept 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.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.91 and 127.511]

The permittee shall submit to the Department the semi-annual portable exhaust gas analyzer test reports within 30 days of the completion of each test. The report shall contain the results of the testing (reported on a pound per hour basis), a description of the testing procedures used, copies of all calculations and the specific gas analyzer used during the testing.

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

Source ID P103 is a natural gas fired, four (4) stroke lean burn (4SLB), compressor engine manufactured by Ingersoll-Rand model 412-KVS with an output rating of 2050 Hp, and equipped with a low emission combustion kit.

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

**SECTION D. Source Level Requirements**

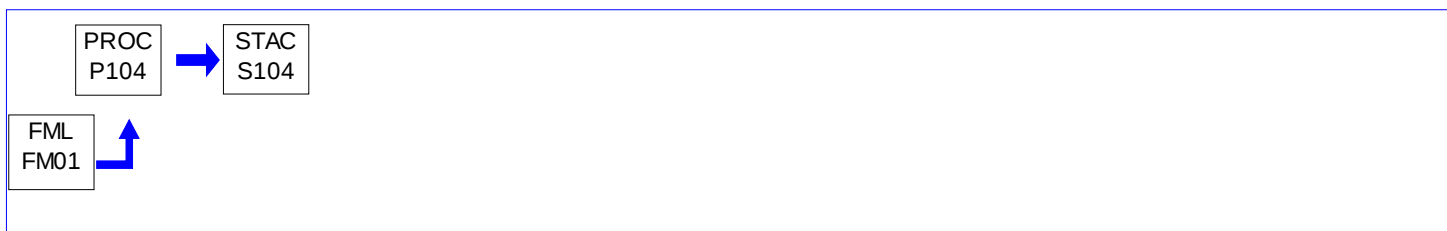
Source ID: P104

Source Name: I-R ENGINE 4 CLN BRN/LEC 412-KVS

Source Capacity/Throughput:

15.900 MCF/HR

Natural Gas

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

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID P104, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

No person may permit the emission of sulfur oxides expressed as SO₂, into the outdoor atmosphere from Source ID P104 in a manner that the concentration of the 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 129.91]

The permittee shall not permit the emission of the following air contaminant pollutants from Source ID P104 in excess of the limitations listed below:

(a) nitrogen oxides (NO_x, expressed as NO₂) - 13.2 pounds per hour

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

The permittee shall not permit the emission of the following air contaminant pollutants from Source ID P104 in excess of the limitations listed below:

(a) nonmethane hydrocarbons - 5.3 pounds per hour,

(b) carbon monoxide - 9.7 pounds per hour.

005 [25 Pa. Code §129.112]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

The permittee shall not permit the emission of the following air contaminant pollutants from this source in excess of the limitations listed below:

(a) volatile organic compounds (VOC), excluding formaldehyde - 0.5 gram per bhp-hr.

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 Section 129.91]

The permittee shall use only pipeline quality natural gas as fuel for Source ID P104.

**SECTION D. Source Level Requirements****II. TESTING 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 129.115 and 127.511.]

(a) No later than five years following the previous stack test on this source, the permittee shall perform an EPA reference method nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide (CO), volatile organic compound (VOC) and nonmethane hydrocarbon stack testing on Source ID P104.

(b) All testing is to be done using reference method test procedures acceptable to the Department. All testing is to be performed while Source ID P104 is operating at full load and full speed.

(c) The testing requirements specified in Section C of this Title V operating permit shall be followed.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.91 and 127.511.]

(a) The permittee shall perform semi-annual nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide (CO) testing upon Source ID P104, once during November and once during March of every year, using a Department approved portable exhaust gas analyzer.

(b) The EPA reference method testing required for Source ID P104 may be substituted for the portable analyzer testing required by this condition on a one-for-one basis (one occurrence of reference method testing may be substituted for one occurrence of portable analyzer testing) provided that the reference method testing occurs in accordance with the portable analyzer testing schedule specified herein.

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

Source ID P104 shall be equipped with engine operating parameter instrumentation to determine whether the operation of Source ID P104 has changed from the baseline operating conditions (air/fuel ratio, etc.) from the stack testing performed on January 16, 1992, and during any subsequent stack testing, such that an increase in the emission of an air contaminant may be occurring.

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 129.115 and 127.511]

(a) The permittee shall keep records of the following for Source ID P104:

(1) The supporting calculations used to verify compliance with the sulfur oxides and particulate matter emission limitations.

(2) The supporting calculations used to verify compliance with the volatile organic compound, nitrogen oxides, nonmethane hydrocarbon, and carbon monoxide emission limitations.

(3) The test results with calculations from all EPA reference method and portable analyzer stack tests conducted on Source ID P104.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

**SECTION D. Source Level Requirements**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.95 and 127.511]

(a) The permittee shall keep records of the following operating parameters of Source ID P104:

(1) The amount of fuel used per month,

(2) Air manifold and fuel manifold pressures, to be recorded at least once per day,

(3) The timing (BTC) of Source ID P104, to be recorded at least once per day.

(b) These records shall be kept for a minimum of 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.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.91 and 127.511]

The permittee shall submit to the Department the semi-annual portable exhaust gas analyzer test reports within 30 days of the completion of each test. The report shall contain the results of the testing (reported on a pound per hour basis), a description of the testing procedures used, copies of all calculations and the specific gas analyzer used during the testing.

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.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P104 is a natural gas-fired, four (4) stroke lean burn (4SLB), compressor engine manufactured by Ingersoll-Rand model 412-KVS rated at 2050 HP equipped with clean burn technology.

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

**SECTION D. Source Level Requirements**

Source ID: P105

Source Name: I-R ENGINE 5 CLN BRN/LEC 412-KVS

Source Capacity/Throughput:

15.900 MCF/HR

Natural Gas

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

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID P105, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

No person may permit the emission of sulfur oxides expressed as SO₂, into the outdoor atmosphere from Source ID P105 in a manner that the concentration of the 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 129.91]

The permittee shall not permit the emission of the following air contaminant pollutants from Source ID P105 in excess of the limitations listed below:

(a) nitrogen oxides (NO_x, expressed as NO₂) - 13.2 pounds per hour

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

The permittee shall not permit the emission of the following air contaminant pollutants from Source ID P105 in excess of the limitations listed below:

(a) nonmethane hydrocarbons - 5.3 pounds per hour,

(b) carbon monoxide - 10.3 pounds per hour.

005 [25 Pa. Code §129.112]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

The permittee shall not permit the emission of the following air contaminant pollutants from this source in excess of the limitations listed below:

(a) volatile organic compounds (VOC), excluding formaldehyde - 0.5 gram per bhp-hr.

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

The permittee shall use only pipeline quality natural gas as fuel for Source ID P105.

**SECTION D. Source Level Requirements****II. TESTING 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 129.91 and 127.511.]

(a) The permittee shall perform semi-annual nitrogen oxides (NO_x, expressed as NO₂) and carbon monoxide (CO) testing upon Source ID P105, once in November and once in March of every year, using a Department approved portable exhaust gas analyzer.

(b) The EPA reference method testing required for Source ID P105 may be substituted for the portable analyzer testing required by this condition on a one-for-one basis (one occurrence of reference method testing may be substituted for one occurrence of portable analyzer testing) provided that the reference method testing occurs in accordance with the portable analyzer testing schedule specified herein.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.115 and 127.511.]

(a) No later than five years following the previous stack test on this source, the permittee shall perform an EPA reference method nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide (CO), volatile organic compound (VOC) and nonmethane hydrocarbon stack testing on Source ID P105.

(b) All testing is to be done using reference method test procedures acceptable to the Department. All testing is to be performed while Source ID P105 is operating at full load and full speed.

(c) The testing requirements specified in Section C of this Title V operating permit shall be followed.

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

Source ID P105 shall be equipped with engine operating parameter instrumentation to determine whether the operation of Source ID P105 has changed from the baseline operating conditions (air/fuel ratio, etc.) from the stack testing performed on January 16, 1992, and during any subsequent stack testing, such that an increase in the emission of an air contaminant may be occurring.

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 129.115 and 127.511]

(a) The permittee shall keep records of the following for Source ID P105:

(1) The supporting calculations used to verify compliance with the sulfur oxides and particulate matter emission limitations.

(2) The supporting calculations used to verify compliance with the volatile organic compound, nitrogen oxides, nonmethane hydrocarbon, and carbon monoxide emission limitations.

(3) The test results with calculations from all EPA reference method and portable analyzer stack tests conducted on Source ID P105.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

**SECTION D. Source Level Requirements**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.95 and 127.511]

(a) The permittee shall keep records of the following operating parameters of Source ID P105:

(1) The amount of fuel used per month,

(2) Air manifold and fuel manifold pressures, to be recorded at least once per day,

(3) The timing (BTC) of Source ID P105 to be recorded at least once per day.

(b) These records shall be kept for a minimum of 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.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.91 and 127.511]

The permittee shall submit to the Department the semi-annual portable exhaust gas analyzer test reports within 30 days of the completion of each test. The report shall contain the results of the testing (reported on a pound per hour basis), a description of the testing procedures used, copies of all calculations and the specific gas analyzer used during the testing.

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.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P105 is a natural gas fired, four (4) stroke lean burn (4SLB), compressor engine manufactured by Ingersoll-Rand model 412-KVS rated at 2050 HP equipped with clean burn technology.

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

**SECTION D. Source Level Requirements**

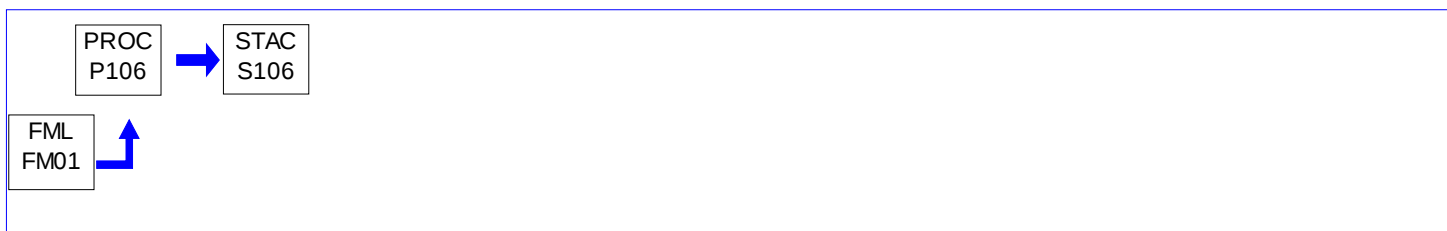
Source ID: P106

Source Name: SOLAR MARS TURBINE 1 (12,600 HP)

Source Capacity/Throughput:

112.800 MCF/HR

Natural Gas

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

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID P106, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

No person may permit the emission of sulfur oxides expressed as SO₂, into the outdoor atmosphere from Source ID P106 in a manner that the concentration of the 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 and 129.91.]

The permittee shall not permit the emission of the following air contaminant pollutants from Source ID P106 in excess of the limitations listed below:

- (a) nonmethane hydrocarbons - 1.6 pounds per hour, 1.9 tons in any 12 consecutive month period,
- (b) carbon monoxide - 5.8 pounds per hour, 6.96 tons in any 12 consecutive month period,
- (c) volatile organic compounds - 1.6 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 129.99(a).]

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 40 CFR 60.332(a)]

The permittee shall not permit the emission of nitrogen oxides (NO_x, expressed as NO₂) from Source ID P106 in excess of the following limitations:

- (a) 79.3 pounds per hour
- (b) 95.2 tons in any 12 consecutive month period.

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

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

**SECTION D. Source Level Requirements**

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.333]
Subpart GG - Standards of Performance for Stationary Gas Turbines
Standard for sulfur dioxide.

The permittee may not burn, in Source ID P106, any fuel which contains sulfur in excess of 0.8 percent by weight.

Operation Hours Restriction(s).

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, 127.12, 129.91 and 129.99(a).]

The permittee shall not operate Source ID P106 in excess of 2,400 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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 (CO) testing upon Source ID P106, once in November and once in March of every year, using a Department approved portable exhaust gas analyzer.

(b) The EPA reference method testing required for Source ID P106 may be substituted for the portable analyzer testing required by this condition on a one-for-one basis (one occurrence of reference method testing may be substituted for one occurrence of portable analyzer testing) provided that the reference method testing occurs in accordance with the portable analyzer testing schedule specified herein.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.115 and 127.511.]

(a) No later than five years following the previous stack test on this source, the permittee shall perform an EPA reference method nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide (CO), volatile organic compound (VOC) and non-methane hydrocarbon stack testing on Source ID P106.

(b) All testing is to be done using reference method test procedures acceptable to the Department. All testing is to be performed while Source ID P106 is operating at full load and full speed.

(c) The testing requirements specified in Section C of this Title V operating permit shall be followed.

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.335]
Subpart GG - Standards of Performance for Stationary Gas Turbines
Test methods and procedures.

The permittee shall comply with all test methods and procedures specified in 40 CFR Part 60 Section 60.335.

III. MONITORING REQUIREMENTS.

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

(a) The nitrogen oxides emission data generated by the Solar Predictive Emission Monitoring System (PEMS) installed on Source ID P106 shall not be accepted by the Department as representative of the turbine's actual nitrogen oxides emission rate.

(b) This condition is subject to revision should new information be brought to the Department's attention which satisfactorily demonstrates the accuracy of the subject systems.

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

[Additional authority for this permit condition is derived from 40 CFR Part 63 Subpart YYYY Section 63.6155]

The permittee shall comply with all applicable recordkeeping requirements as specified in 40 CFR Part 63 Subpart YYYY Section 63.6155.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.95, 129.100(d), 129.115 and 127.511.]

(a) The permittee shall keep records of the following information for Source ID P106:

(1) The number of hours operated on a monthly basis and calculations to verify compliance with the operational hour limitation in any 12 consecutive month period.

(2) The amount of fuel consumed per month.

(3) The custom fuel monitoring report.

(4) The supporting calculations used to verify the sulfur oxides, particulate matter and volatile organic compounds emission limitations for Source ID P106.

(5) The emission of nitrogen oxide, carbon monoxide and nonmethane hydrocarbon on a monthly basis and calculations to verify compliance with the nitrogen oxide, carbon monoxide and nonmethane hydrocarbon emission limitations in any 12 consecutive month period.

(6) The results and calculations from all stack tests and portable gas analyzer tests conducted on Source ID P106.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

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

(a) The permittee shall submit semi-annual reports to the Department on the following information for Source ID P106:

(1) The emission of carbon monoxide (CO), nitrogen oxides (NO_x, expressed as NO₂), and nonmethane hydrocarbons (NMHC) on a monthly basis and calculations to verify compliance with the carbon monoxide (CO), nitrogen oxides (NO_x, expressed as NO₂), and nonmethane hydrocarbons (NMHC) emission limitations in any 12 consecutive month period.

(2) The number of hours operated on a monthly basis and calculations to verify compliance with the operational hour limitation in any 12 consecutive month period.

(3) The amount of fuel consumed per month.

(b) The semi-annual reports 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).

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

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

**SECTION D. Source Level Requirements**

The permittee shall submit to the Department the semi-annual portable exhaust gas analyzer test reports within 30 days of the completion of each test. The report shall contain the results of the testing (reported on a pound per hour basis), a description of the testing procedures used, copies of all calculations and the specific gas analyzer used during the testing.

016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]**Subpart A - General Provisions****Address.**

The submission of all requests, reports, applications, submittals and other communications required by 40 CFR Part 60 Subpart GG and 40 CFR Part 63 Subpart YYYY shall be submitted to both the U. S. Environmental Protection Agency and the Department. The Environmental Protection Agency copies may be sent to:

Director
Air Protection Division (3AP00)
U. S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

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

(a) Source ID P106 is subject to 40 CFR Part 60 Subpart GG Sections 60.330 through 60.335.

(b) The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart GG Section 60.330 through 60.335.

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

(a) Source ID P106 is subject to 40 CFR Part 63 Subpart YYYY Sections 63.6080 through 63.6175.

(b) The permittee shall comply with all applicable requirements specified in 40 CFR Part 63 Subpart YYYY Sections 63.6080 through 63.6175.

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

Source ID P106 is a Compressor Turbine, natural-gas fired, Solar Mars, Model MARS, 12,600 HP rated, 105.1 MMBtu/hr rated heat input, Installation date 1991, Turbine #1.

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

**SECTION D. Source Level Requirements**

Source ID: P107

Source Name: SOLAR MARS TURBINE 2 (12,600 HP)

Source Capacity/Throughput:

112.800 MCF/HR

Natural Gas

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

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID P107, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

No person may permit the emission of sulfur oxides expressed as SO₂, into the outdoor atmosphere from Source ID P107 in a manner that the concentration of the 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, and 129.91.]

The permittee shall not permit the emission of the following air contaminant pollutants from Source ID P107 in excess of the limitations listed below:

- (a) nonmethane hydrocarbons - 1.6 pounds per hour, 2.7 tons in any 12 consecutive month period,
- (b) carbon monoxide - 5.8 pounds per hour, 9.75 tons in any 12 consecutive month period,
- (c) volatile organic compounds - 1.6 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 129.99(a).]

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 40 CFR 60.332(a)]

The permittee shall not permit the emission of nitrogen oxides (NO_x, expressed as NO₂) from Source ID P107 in excess of the following limitations:

- (a) 79.3 pounds per hour.
- (b) 133.2 tons in any 12 consecutive month period.

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

The permittee shall use only pipeline quality natural gas as fuel for Source ID P107.

**SECTION D. Source Level Requirements**

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.333]
Subpart GG - Standards of Performance for Stationary Gas Turbines
Standard for sulfur dioxide.

The permittee may not burn, in Source ID P107, any fuel which contains sulfur in excess of 0.8 percent by weight.

Operation Hours Restriction(s).

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, 127.12, 129.91 and 129.99(a).]

The permittee shall not operate Source ID P107 in excess of 3,360 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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 (CO) testing upon Source ID P107, once in November and once in March of every year, using a Department approved portable exhaust gas analyzer.

(b) The EPA reference method testing required for Source ID P107 may be substituted for the portable analyzer testing required by this condition on a one-for-one basis (one occurrence of reference method testing may be substituted for one occurrence of portable analyzer testing) provided that the reference method testing occurs in accordance with the portable analyzer testing schedule specified herein.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.115 and 127.511.]

(a) No later than five years following the previous stack test on this source, the permittee shall perform an EPA reference method nitrogen oxides (NO_x, expressed as NO₂), carbon monoxide (CO), volatile organic compound (VOC) and non-methane hydrocarbon stack testing on Source ID P107.

(b) All testing is to be done using reference method test procedures acceptable to the Department. All testing is to be performed while Source ID P107 is operating at full load and full speed.

(c) The testing requirements specified in Section C of this Title V operating permit shall be followed.

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.335]
Subpart GG - Standards of Performance for Stationary Gas Turbines
Test methods and procedures.

The permittee shall comply with all test methods and procedures as specified in 40 CFR Part 60 Section 60.335.

III. MONITORING REQUIREMENTS.

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

(a) The nitrogen oxides emission data generated by the Solar Predictive Emission Monitoring System (PEMS) installed on Source ID P107 shall not be accepted by the Department as representative of the turbine's actual nitrogen oxides emission rate.

(b) This condition is subject to revision should new information be brought to the Department's attention which satisfactorily demonstrates the accuracy of the subject systems.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.95, 129.100(d), 129.115 and 127.511.]

(a) The permittee shall keep records of the following information for Source ID P107:

- (1) The number of hours operated on a monthly basis and calculations to verify compliance with the operational hour limitation in any 12 consecutive month period.
- (2) The amount of fuel consumed per month.
- (3) The custom fuel monitoring report.
- (4) The calculations used to verify the sulfur oxides, particulate matter and volatile organic compounds emission limitations for Source ID P107.
- (5) The emission of nitrogen oxide, carbon monoxide and nonmethane hydrocarbon on a monthly basis and calculations to verify compliance with the nitrogen oxide, carbon monoxide and nonmethane hydrocarbon emission limitations in any 12 consecutive month period.
- (6) The results and calculations from all stack tests conducted on the source.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

[Additional authority for this permit condition is derived from 40 CFR Part 63 Subpart YYYY Section 63.6155]

The permittee shall comply with all applicable recordkeeping requirements as specified in 40 CFR Part 63 Subpart YYYY Section 63.6155.

V. REPORTING 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 127.511]

The permittee shall submit to the Department the semi-annual portable exhaust gas analyzer test reports within 30 days of the completion of each test. The report shall contain the results of the testing (reported on a pound per hour basis), a description of the testing procedures used, copies of all calculations and the specific gas analyzer used during the testing.

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

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

(a) The permittee shall submit semi-annual reports to the Department for the following information of Source ID P107:

- (1) The emission of carbon monoxide (CO), nitrogen oxides (NO_x), and nonmethane hydrocarbon (NMHC) on a monthly basis and calculations to verify compliance with the carbon monoxide (CO), nitrogen oxides (NO_x), and nonmethane hydrocarbon emission limitations in any 12 consecutive month period.
- (2) The number of hours operated on a monthly basis and calculations to verify compliance with the operational hour limitation in any 12 consecutive month period.

**SECTION D. Source Level Requirements**

(3) The amount of fuel consumed per month.

(b) The semi-annual reports 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).

016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]

Subpart A - General Provisions

Address.

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

Director
Air Protection Division (3AP00)
U. S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

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.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID P107 is subject to 40 CFR Part 60 Subpart GG Sections 60.330 through 60.335.

(b) The permittee shall comply with all applicable requirements specified in 40 CFR Part 60 Subpart GG Section 60.330 through 60.335.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P107 is a Compressor Turbine, Natural-gas fired, Solar Mars, Model MARS, 12,600 HP rated, 105.1 MMBtu/hr rated heat input, Installation date 1993, Turbine #2.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID P107 is subject to 40 CFR Part 63 Subpart YYYY Sections 63.6080 through 63.6175.

(b) The permittee shall comply with all applicable requirements as specified in 40 CFR Part 63 Subpart YYYY Sections 63.6080 through 63.6175.

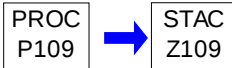
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P109

Source Name: PIPELINE VALVES & FLANGES

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from the provisions of 25 Pa. Code §§123.1, 123.31, 127.1, and 127.12]

In accordance with the requirements specified in Section C of this operating permit, the permittee shall conduct testing for fugitive air contaminants and leaks by: 1) performing auditory, visual and olfactory observations as part of the monthly walkaround inspections of the facility and 2) performing leak detection and repair (LDAR) monitoring using methods acceptable to the Department.

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 §129.115]

Written notification, compliance demonstration and recordkeeping and reporting requirements

The permittee shall maintain records that demonstrate to the Department that Source ID P109 is not subject to 25 Pa. Code §129.112 based on the potential to emit not exceeding the specified emission rate threshold of 1 ton per year of VOCs.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P109 is the pipeline valves, flanges, etc. located inside the boundaries of the property lines of the facility that are in natural gas or hydrocarbon liquid service.

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

**SECTION D. Source Level Requirements**

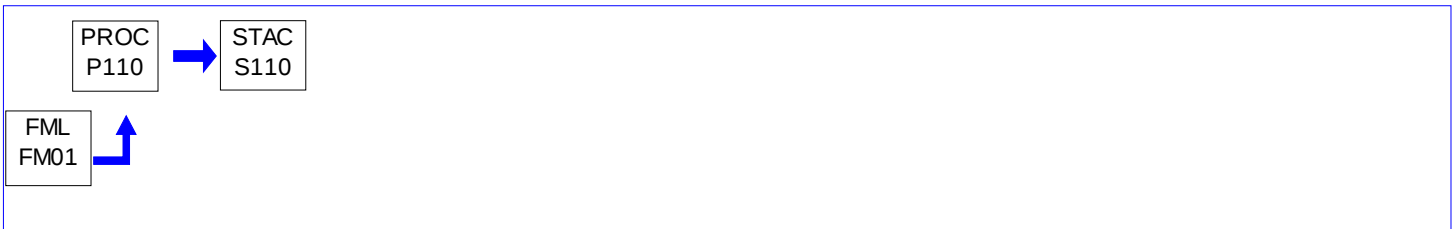
Source ID: P110

Source Name: GENERATOR WAUKESHA 2895GL (668 HP)

Source Capacity/Throughput:

N/A

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from Source ID P110 in a manner that the concentration in the effluent gas exceeds 0.40 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from Source ID P110 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use pipeline quality natural gas as fuel for Source ID P110.

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 129.112(c)(10).]

The permittee shall operate Source ID P110 less than 500 hours in a 12 month rolling 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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.511 and 129.115]

(a) The permittee shall keep records of the number of hours operated on a monthly basis and calculations to verify

**SECTION D. Source Level Requirements**

compliance with the operation hour limitation in any 12 consecutive month period for Source ID P110.

(b) The permittee shall maintain records to verify that Source ID P110 is installed, maintained, and operated in accordance with the manufacturer's specifications and with good operating practices.

(c) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall submit an annual report to the Department including the number of hours that Source ID P110 is operated on a monthly basis and calculations to verify compliance with the operational hour limitation in any 12 consecutive month period.

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

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 129.112(c)]

Source ID P110 shall be installed, maintained, and operated 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 ID P110 is a natural gas fired emergency generator manufactured by Waukesha model 2895GL rated at 668 Hp.

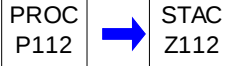
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P112

Source Name: PARTS WASHERS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General 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.**# 001 [25 Pa. Code §129.63]****Degreasing operations**

(a) The permittee shall keep records on the following information for each solvent degreasing station of Source ID P112:

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

(b) These records shall be kept for a minimum of five (5) years and 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.**# 002 [25 Pa. Code §129.63]****Degreasing operations**

Each solvent degreasing station of Source ID P112 shall be equipped with a cover that shall be closed at all times except during the cleaning of parts or the addition or removal of solvent.

003 [25 Pa. Code §129.63]**Degreasing operations**

Each solvent degreasing station of Source ID P112 shall have the following:

- (1) A permanent conspicuous label summarizing these operating requirements:

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

**SECTION D. Source Level Requirements**

(b) Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.

(c) Sponges, fabric, wood, leather, paper products, and other absorbent materials may not be cleaned in the cold cleaning machine.

(d) Air agitated solvent baths may not be used.

(e) Spills during solvent transfer and use of cold cleaning machine shall be cleaned up immediately.

(2) In addition, the label shall include the following discretionary good operating practices:

(a) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining.

(b) During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.

(c) Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.

VII. ADDITIONAL REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The solvent cleaning solution used in Source ID P112 shall have a vapor pressure of VOC containing solvent shall be less than 1.0 millimeter of mercury (mm Hg) measured at 20 degrees Celsius (68 degrees Fahrenheit).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P112 includes two solvent degreasing stations, with reservoir capacities of 30 gallons and 20 gallons, respectively.

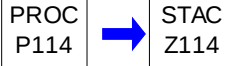
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P114

Source Name: STORAGE TANKS >2000 GALLONS

Source Capacity/Throughput:

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

With the exception of the 10,000 gallon methanol tank, the permittee shall not store any liquid containing volatile organic compounds (VOCs) in any of the storage tanks of Source ID P114 which has a vapor pressure greater than 1.5 psia (10.5 kilopascals) under actual storage conditions.

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 vapor pressure of the VOC containing liquid stored in each storage tank of Source ID P114.

(b) These records shall be kept 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 §129.57]****Storage tanks less than or equal to 40,000 gallons capacity containing VOCs**

The 10,000 gallon methanol aboveground storage tank shall have pressure relief valves which are maintained in good operating condition and which are set to release at no less than 0.7 psig (4.8 kilopascals) of pressure or 0.3 psig (2.1 kilopascals) of vacuum or the highest possible pressure and vacuum in accordance with state or local fire codes or the National Fire Prevention Association guidelines or other national consensus standards acceptable to the Department.

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

Source ID P114 is seven (7) aboveground Storage Tanks which include the following:

**SECTION D. Source Level Requirements**

- (a) One (1) Methanol tank - 10,000 gallons
- (b) One (1) Lube Oil Storage Tank - 6,000 gallons.
- (c) One (1) Waste Oil Storage Tank - 4,200 gallons
- (d) One (1) Waste Water Storage Tank - 6,000 gallons
- (e) One (1) P/L Condensate Storage Tank - 8,820 gallons
- (f) One (1) Condensate Storage Tank - 8,820 gallons
- (g) One (1) Oily Wastewater Storage Tank - 4,200 gallons

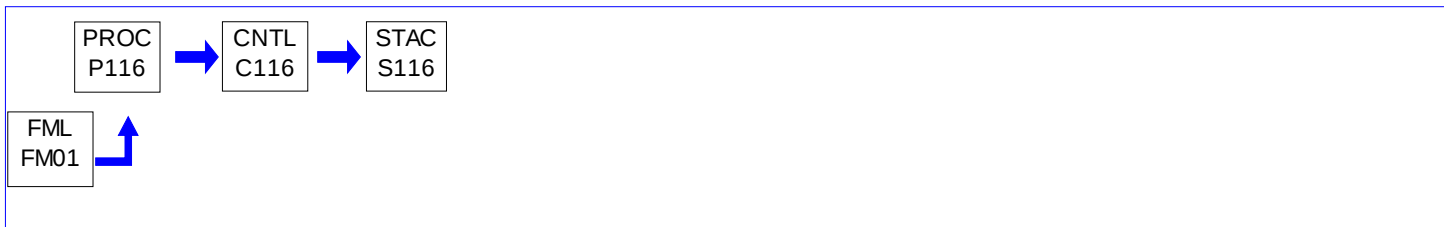
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P116

Source Name: SOLAR TITAN 130S TURBINE

Source Capacity/Throughput:

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

The permittee shall not emit particulate matter from the exhaust of Control Device ID C116, associated with Source ID P116, in excess of 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

002 [25 Pa. Code §123.21]**General**

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

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

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P116 shall not emit into the outdoor atmosphere carbon monoxide (CO) in a manner that the concentration of CO in the exhaust of the natural gas-fired turbine associated with Source ID P116 is in excess of 2 parts per million, by volume, dry basis, corrected to 15% oxygen.

(b) The restriction specified in (a) of this condition applies at all times of operation except as provided below:

- i) Periods when the ambient temperature is below 0°F (non-SoLoNOx operation).
- ii) During startup and shutdown operations.

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

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P116 shall not emit into the outdoor atmosphere volatile organic compounds (VOCs) in a manner that the concentration of VOCs (as propane) in the exhaust of the natural gas-fired turbine associated with Source ID P116 is in excess of 3 parts per million, by volume, dry basis, corrected to 15% oxygen.

(b) The restriction specified in (a) of this condition applies at all times of operation except as provided below:

- i) Periods when the ambient temperature is below 0°F (non-SoLoNOx operation).
- ii) During startup and shutdown operations.

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

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provisions specified in 40 CFR Section 60.4320]

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P116 shall not emit into the outdoor atmosphere nitrogen oxides (expressed as NO₂) in a manner that the concentration of nitrogen oxides in the exhaust of the natural gas-fired turbine associated with Source ID P116 is in excess of 15 parts per million, by volume, dry basis, corrected to 15% oxygen.

**SECTION D. Source Level Requirements**

(b) The restriction specified in (a) of this condition applies at all times of operation except as provided below:

- i) Periods when the ambient temperature is below 0°F (non-SoLoNOx operation).
- ii) During startup and shutdown operations.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P116 shall not emit into the outdoor atmosphere particulate matter (filterable only) from the natural gas-fired turbine associated with Source ID P116 in excess of the rate equal to 0.0019 pound per million British Thermal Units (lb/MMBTU) of heat input to the turbine (3-hour block average).

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P116 shall not emit into the outdoor atmosphere particulate matter with an aerodynamic diameter less than 10 microns (filterable and condensable) from the natural gas-fired turbine associated with Source ID P116 in excess of the rate equal to 0.0066 pound per million British Thermal Units (lb/MMBTU) of heat input to the turbine (3-hour block average).

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P116 shall not emit into the outdoor atmosphere particulate matter with an aerodynamic diameter less than 2.5 microns (filterable and condensable) from the natural gas-fired turbine associated with Source ID P116 in excess of the rate equal to 0.0066 pound per million British Thermal Units (lb/MMBTU) of heat input to the turbine (3-hour block average).

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

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P116 shall not emit into the outdoor atmosphere formaldehyde from the natural gas-fired turbine associated with Source ID P116 in excess of the rate equal to 0.000288 lb/MMBTU of heat input to the turbine.

(b) The restriction specified in (a) of this condition applies at all times of operation except as provided below:

- i) Periods when the ambient temperature is below 0°F (non-SoLoNOx operation).
- ii) During startup and shutdown operations.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the annual emissions from the operation of the compression process incorporated into Source ID P116, including emissions from startup and shutdown, shall not exceed any of the following in any 12 consecutive month period:

- (i) 38.6 tons of nitrogen oxides, expressed as NO₂;
- (ii) 33.5 tons of carbon monoxide;
- (iii) 1.3 tons of particulate matter (filterable only);
- (iv) 4.6 tons of PM₁₀ (filterable and condensable);
- (v) 4.6 tons of PM_{2.5} (filterable and condensable);
- (vi) 2.7 tons of volatile organic compounds (including formaldehyde);
- (vii) 0.3 tons of formaldehyde; and
- (viii) 0.8 tons of sulfur oxides, expressed as SO₂.

011 [25 Pa. Code §129.112]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

(a) Source ID P116 shall not emit into the outdoor atmosphere nitrogen oxides (NO_x, expressed as NO₂) from the natural gas-fired turbine associated with Source ID P116 in excess of 42 ppmvd NO_x @ 15% oxygen.

(b) Source ID P116 shall not emit into the outdoor atmosphere volatile organic compounds (VOCs, expressed as propane)

**SECTION D. Source Level Requirements**

from the natural gas-fired turbine associated with Source ID P116 in excess of 9 ppmvd VOCs @ 15% oxygen.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6100]**Subpart YYYY--National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines
What emission and operating limitations must I meet?**

(a) The permittee shall limit the concentration of formaldehyde in the exhaust of Source ID P116 to 91 ppbvd or less at 15-percent O₂, except during turbine startup.

(b) For the purposes of this condition, startup begins at the first firing of fuel in Source ID P116 and ends when the stationary combustion turbine has reached stable operation or after 1 hour, whichever is less.

Fuel Restriction(s).**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provisions in 40 CFR Section 60.4330(a)(2)]

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the permittee shall only fire pipeline-quality natural gas as fuel to operate Source ID P116.

(b) The total sulfur content of the natural gas shall be equal to or less than 0.6 grains per 100 standard cubic feet.

Throughput Restriction(s).**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source ID P116 shall not combust natural gas in excess of 1373.71 million cubic feet in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code §129.115 and 40 CFR §§ 60.4340(a) and 63.6115]

(a) After the performance of the initial EPA reference method testing program, subsequent EPA reference method testing programs shall be conducted on the exhaust of the natural gas-fired combustion turbine incorporated into Source ID P116 on an approximate annual basis, in order to determine the formaldehyde emission rates while the process is operating at peak load. "Annual basis" for purposes of this condition is defined to be no more than 12 months from the date of the previous test.

(b) After the performance of the initial EPA reference method testing program, subsequent EPA reference method testing programs shall be conducted on the exhaust of the natural gas-fired combustion turbine incorporated into Source ID P116 on an approximate biennial basis, in order to determine the nitrogen oxides and carbon monoxide emission rates while the process is operating at peak load. "Biennial basis" for purposes of this condition is defined to be no more than 24 months from the date of the previous test.

(c) After the performance of the initial EPA reference method testing program, subsequent EPA reference method tests shall be conducted on the exhaust of the natural gas-fired combustion turbine incorporated into Source ID P116 on an approximate triennial basis to determine the volatile organic compound emission rates while the process is operating at peak load, but in each case, subsequent tests shall occur no less than 32 months and no more than 36 months following the previous test.

(d) All subsequent testing shall be performed using test methods and procedures which are acceptable to the Department

**SECTION D. Source Level Requirements**

and in accordance with 40 CFR Sections 60.4400 and 63.6120.

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

- (a) The inlet temperature to the oxidation catalyst (ID C116) shall be maintained in the range of 750 to 1,112 degrees Fahrenheit.
- (b) Compliance with the catalyst inlet temperature restriction shall be demonstrated on a 3-hour rolling average basis.
- (c) The restriction specified in (a) of this condition applies at all times except during startup and shutdown of the turbine.

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

- (a) The differential pressure across the oxidation catalyst (ID C116) shall be maintained below 4.0 inches of water.
- (b) Compliance with the catalyst differential pressure restriction shall be demonstrated on a 3-hour rolling average basis.
- (c) The restriction specified in (a) of this condition applies at all times except during startup and shutdown of the turbine.

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

The permittee shall monitor emissions of NO_x, CO, PM, PM₁₀, PM_{2.5}, VOCs, SO_x, and formaldehyde, by using fuel consumption data and the most recent stack testing results to perform emissions calculations, on a calendar monthly basis, to verify compliance with the 12 consecutive month emissions limitations for Source ID P116.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the combustion turbine of Source ID P116 shall be equipped, prior to the turbine's initial start-up date, with instrumentation that monitors the manufacturer's recommended operational parameters and continuously indicates whether Source ID P116 is operating in or out of low- NO_x mode, i.e. SoLoNO_x mode.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the oxidation catalyst (ID C116) shall be equipped with instrumentation to continuously monitor the catalyst bed inlet and outlet temperatures as well as the pressure differential across the catalyst bed to verify the temperature and pressure differential parameters are within the acceptable ranges established during performance testing.

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

- (a) The operating parameters associated with the turbine and oxidation catalyst being monitored shall also be monitored during the initial and subsequent EPA reference method testing program for Source ID P116 as required herein.
- (b) The permittee may supplement the operating parameter data collected during EPA reference method testing with Department-approved engineering analyses, design specifications and/or manufacturers' recommendations.

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

The primary seal vent pressure (or other indicators as approved by the Department) shall be monitored per the manufacturer's specification to verify the primary dry seal incorporated into the design of the centrifugal compressor associated with Source ID P116 has not deteriorated past its useful life due to normal wear and tear, contamination, etc. An alarm shall sound if abnormal seal operation is detected.

**SECTION D. Source Level Requirements****# 023 [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 NO_x 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 and/or duration 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 NO_x 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.

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

[Additional authority for this permit condition is also derived from 40 CFR §§ 60.4360-60.4370]

The company shall monitor the sulfur content of the natural gas used in Source ID P116 by either:

(a) Determining the sulfur content of the fuel using total sulfur methods described in 40 CFR §60.4415 at the frequency specified in either 40 CFR §60.4370(b) or §60.4370(c); OR

(b) The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the maximum total sulfur content for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet, has potential sulfur emissions of less than less than 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input; OR

(c) Representative fuel sampling data which shows that the sulfur content of the fuel does not exceed 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of 40 CFR Part 75 Appendix D is required.

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

The permittee shall install instrumentation capable of accurately measuring the quantity of natural gas combusted in Source ID P116.

026 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6125]**Subpart YYYY--National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines
What are my monitor installation, operation, and maintenance requirements?**

The permittee shall monitor on a continuous basis the catalyst (ID C116) inlet temperature and maintain the 4-hour rolling average of the catalyst inlet temperature within the range suggested by the catalyst manufacturer. It is not required to use the catalyst inlet temperature data that is recorded during startup in the calculations of the 4-hour rolling average catalyst inlet temperature.

027 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6135]**Subpart YYYY--National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines
How do I monitor and collect data to demonstrate continuous compliance?**

(a) Except for monitor malfunctions, associated repairs, and required quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments of the monitoring system), the permittee shall conduct all parametric monitoring at all times that Source ID P116 is operating.

(b) Do not use data recorded during monitor malfunctions, associated repairs, and required quality assurance or quality

**SECTION D. Source Level Requirements**

control activities for meeting the requirements of 40 CFR Part 63 Subpart YYYY, including data averages and calculations. The permittee shall use all the data collected during all other periods in assessing the performance of Control Device ID C116 or in assessing emissions from Source ID P116.

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

- (a) The permittee shall keep records of the data averages, including the catalyst inlet temperature and differential pressure, as part of the parameter monitoring plan as well as the manufacturer's suggested low-NO_x parameter monitoring systems to verify the averages are within the respective ranges developed as part of the parameter monitoring plan.
- (b) The permittee shall create and maintain a current, up-to-date, parameter monitoring plan for Source ID P116.
- (c) All information generated to meet the requirements of the conditions shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

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

- (a) The permittee shall keep accurate and comprehensive records of the following information:
- i) The monthly air contaminant emissions from the operation of Source ID P116, including the monthly combustion turbine emission calculations for periods of startup/shutdown, in order to verify compliance with the 12 consecutive month emissions restrictions.
 - ii) The amount of fuel used in the combustion turbine on a monthly basis.
 - iii) The number of hours the combustion turbine operated on a monthly basis.
 - iv) The number of startups and shutdowns performed each month on the combustion turbine.
 - v) The copy of the EPA reference method stack testing reports and the parameters data obtained during each performance test.
 - vi) The supporting documentation for each period of operation of the combustion turbine in non-SoLoNO_x mode.
 - vii) The total cumulative period of time that the combustion turbine operated in non-SoLoNO_x mode.
 - viii) Maintenance performed on Source ID P116.
- (b) All information generated to meet the requirements of this condition shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

- (a) The permittee shall keep accurate and comprehensive records, such as but not limited to, the manufacturers' suggested quality assurance practices and manuals for the monitoring instrumentation; the date and personnel performing each calibration on the instrumentation; result of calibration; the corrective actions based on the results of each calibration, in order to verify the performance of the monitoring instrumentation used as part of the parameter monitoring plan for the natural gas-fired combustion turbine of Source ID P116 is within the manufacturers' tolerances and specifications.
- (b) All information generated to meet the requirements of this condition shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

- (a) The permittee shall keep records of the periodic inspections conducted on the centrifugal compressor's dry seal performance indicators including the date of inspection; personnel conducting the inspections and all corrective actions performed as a result of the inspection findings.
- (b) All information generated to meet the requirements of this condition shall be kept for a minimum of five (5) years and

**SECTION D. Source Level Requirements**

shall be made available to the Department upon request.

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

The results of the completed portable analyzer monitoring for NOx and CO emissions shall be kept for a period of 5 years.

033 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6125]**Subpart YYYY--National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines****What are my monitor installation, operation, and maintenance requirements?**

The permittee shall develop and implement a continuous monitoring system (CMS) quality control program that includes written procedures for CMS according to 40 CFR § 63.8(d)(1) through (2). The permittee shall keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of this 40 CFR Part 63 Subpart YYYY, to be made available for inspection, upon request, by the Department. If the performance evaluation plan is revised, the permittee shall keep previous (i.e., superseded) versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Department, for a period of 5 years after each revision to the plan. The program of corrective action should be included in the plan required under 40 CFR § 63.8(d)(2).

V. REPORTING REQUIREMENTS.**# 034 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The submission of all requests, reports, applications, submittals and other communications required by 40 CFR Sections 60.4300 through 60.4420 and 63.6080 through 63.6175 shall be made to both the Department of Environmental Protection and the Environmental Protection Agency. The Environmental Protection Agency copies may be sent to:

Environmental Protection Agency
Office of Enforcement and Compliance Assistance (3AP20)
1650 Arch Street
Philadelphia, PA 19103

(b) NSPS and MACT reports that are submitted electronically to EPA's Central Data Exchange must be sent to the following website:

<https://cdx.epa.gov/>

035 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall submit the following information for the annual report of air contaminant emissions from Source ID P116:

- (i) the monthly emissions of nitrogen oxides, sulfur oxides, volatile organic compounds, formaldehyde, greenhouse gas emissions (expressed as CO₂e), particulate matter, total PM₁₀ and total PM_{2.5}, including the supporting calculations;
- (ii) 12-month rolling total emissions of nitrogen oxides, sulfur oxides, volatile organic compounds, formaldehyde, greenhouse gas emissions (expressed as CO₂e), particulate matter, total PM₁₀ and total PM_{2.5}, including the supporting calculations;
- (iii) 12-month rolling total of natural gas combusted in Source ID P116;
- (iv) Emission calculations for the quantity of vented gas.

(b) Source ID P116 shall be included in the annual AIMS report in accordance with 25 Pa. Code § 135.3 which is included herein under Section C, V. Reporting Requirements.

(c) The annual compliance report information and AIMS report shall cover the operation of Source ID P116 during the preceding calendar year period, January 1 through December 31 and shall be submitted to the Department by March 1 of

**SECTION D. Source Level Requirements**

each calendar year.

036 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) In addition to the malfunction reporting requirements specified in Section C, the permittee shall submit the following information for Source ID P116 on a annual basis:

- (i) Periods when Source ID P116 is running and the operating parameters fall outside the respective ranges established in the current parameter monitoring plan;
- (ii) Periods when Source ID P116 is running and the operating parameter averages are not available.
- (iii) Periods when Source ID P116 is running and the operating parameter averages were not reduced from the set of measurements due to monitoring downtime or periods of invalid data, (e.g. if an operating parameter is being measured every 15 seconds, the full set of measurements for a 1-hour average would be equal to 240).

(b) The investigative findings and corrective actions that resulted from the periods reported pursuant to part (a) of this condition.

(c) The annual reporting information shall cover the operation of Source ID P116 during the preceding calendar year period, January 1 through December 31 and shall be submitted to the Department by March 1 of every calendar year.

037 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall comply with the reporting requirements specified in the applicable provisions of 40 CFR §§ 60.4375 and 60.4395.

038 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6150]**Subpart YYYY--National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines****What reports must I submit and when?**

[Additional authority for this permit condition is also derived from 40 CFR §§ 63.6140(b) and 63.6155]

(a) The permittee shall submit a semiannual compliance report according to Table 6 of 40 CFR Part 63 Subpart YYYY. The semiannual compliance report shall contain the information described in paragraphs 40 CFR § 63.6150(a)(1) through (5), including each instance of deviation from the Subpart YYYY limitations, as required by 40 CFR § 63.6140(b).

(b) The permittee shall, within 60 days after the date of completing each formaldehyde performance test required by Subpart YYYY, submit the results of the performance test (as specified in 40 CFR § 63.6145(f)) following the procedures specified in paragraphs 40 CFR § 63.6150(f)(1) through (3).

(c) The permittee shall retain records of these reports, as well as any other notifications and reports required by Subpart YYYY, in accordance with the provisions of 40 CFR § 63.6155.

VI. WORK PRACTICE REQUIREMENTS.**# 039 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the centrifugal compressor associated with Source ID P116 shall incorporate dry seals to control fugitive leaks from the source.

(b) The centrifugal compressor, along with the dry seals, associated with Source ID P116 shall be maintained in accordance with the manufacturer's recommended practices.

040 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from the requirements specified in 40 CFR §§ 60.4333(a) and 63.6105(c)]

**SECTION D. Source Level Requirements**

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the permittee shall operate and maintain the combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

VII. ADDITIONAL REQUIREMENTS.**# 041 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source ID P116 is subject to Subpart KKKK of the federal Standards of Performance for New Stationary Sources, 40 CFR Sections 60.4300-60.4420. The permittee shall comply with all applicable requirements specified in 40 CFR Sections 60.4300-60.4420.

042 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Source ID P116 consists of a natural gas compression process which includes a mechanical compressor coupled to a natural gas-fired, Solar Model Titan 130S combustion turbine with a heat input capacity at peak load and 30°F ambient site conditions equal to 160.0 MMBtu/hr. The emissions from Source ID P116 shall be controlled by an oxidation catalyst (Control Device ID C116).

043 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The following definitions apply to the operation of Source ID P116:

(a) "Startup" means the ten minute period following the setting in operation of Source ID P116 for any purpose.

(b) "Shutdown" means the ten minute period preceding cessation of operation of Source ID P116 for any purpose.

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

**SECTION D. Source Level Requirements**

Source ID: P117

Source Name: 1175 BHP EMERGENCY GENERATOR

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 also derived from 25 Pa. Code §§127.1, 127.12 and 40 CFR § 60.4233(e)]

The permittee shall operate the emergency stand-by power generating process incorporated into Source ID P117 in a manner such that the rate of emissions from the stationary reciprocating internal combustion engine (RICE) does not exceed the following limitations:

- (i) Nitrogen Oxide - 2.0 grams per horsepower-hour
- (ii) Carbon Monoxide - 1.3 grams per horsepower-hour
- (iii) Volatile Organic Compound - 0.3 grams per horsepower-hour

Fuel Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

Source ID P117 shall only be fired on pipeline-quality natural gas.

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

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

The permittee shall operate the stationary RICE associated with Source ID P117 no more than 500 hours in any 12 consecutive month period.

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4243(d)]

The permittee shall operate the emergency generator set included in Source ID P117 according to the requirements in paragraphs (1) through (4). Any operation other than emergency operation, maintenance and testing, and operation in nonemergency situations for 50 hours per year, as described in paragraphs (1) through (4), is prohibited.

(1) There is no time limit on the use of Source ID P117 in emergency situations, other than the 500 hours in any 12 consecutive month period limitation established pursuant to 25 Pa. Code §§ 127.1 and 127.12.

(2) The permittee may operate Source ID P117 for the purposes specified in paragraphs (3) and (4) for a combined maximum of 100 hours per calendar year.

(3) Source ID P117 may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization

**SECTION D. Source Level Requirements**

or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Department for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of Source ID P117 beyond 100 hours per calendar year.

(4) Source ID P117 may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year provided in paragraph (2). The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR §60.4244]

Any required testing of Source ID P117 shall be performed pursuant to 25 Pa. Code Chapter 139, test methods and procedures that are acceptable to the Department as well as the applicable testing provisions as specified in 40 CFR §60.4244.

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

The permittee shall demonstrate compliance with the emission limits for Source ID P117 by keeping a maintenance plan and records of conducted maintenance and, to the extent practicable, maintaining and operating the RICE in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the permittee must conduct an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first.

III. MONITORING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR § 60.4237(a)]

Prior to initial stationary RICE start-up, the permittee shall equip the stationary RICE associated with Source P117 with a non-resettable hour meter that logs the run-time of Source ID P117.

IV. RECORDKEEPING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR §§ 60.4245(a)-(b)]

The permittee shall create and maintain records of the information in paragraphs (1) through (4) of this condition:

(1) All notifications submitted to comply with 40 CFR Part 60 Subpart JJJJ and all documentation supporting any notification.

(2) Maintenance conducted on Source ID P117.

(3) Documentation that Source ID P117 meets the applicable emission standards.

(4) Records of the hours of operation of Source ID P117 that are recorded through the non-resettable hour meter. The

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permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

These records shall be maintained for a minimum of five years and be made available to the Department upon request.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall maintain records to verify that Source ID P117 is installed, maintained, and operated in accordance with the manufacturer's specifications and with good operating practices.

V. REPORTING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The submission of all requests, reports, applications, submittals and other communications required by 40 CFR Sections 60.4230 through 60.4248 shall be made to both the Department of Environmental Protection and the Environmental Protection Agency. The Environmental Protection Agency copies may be sent to:

Environmental Protection Agency
Office of Enforcement and Compliance Assistance (3AP20)
1650 Arch Street
Philadelphia, PA 19103

or

R3_SubpartJJJJ@epa.gov (to be used only for test reports/protocols in lieu of hard copies)

(b) NSPS and MACT reports that are submitted electronically to EPA's Central Data Exchange must be sent to the following website:

<https://cdx.epa.gov/>

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR § 60.4245(d)]

The permittee shall submit a copy of each performance test conducted in accordance with 40 CFR §60.4244 within 60 days after the test has been completed.

VI. WORK PRACTICE REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

Source ID P117 shall be installed, maintained, and operated in accordance with the manufacturer's specifications and good operating practices.

VII. ADDITIONAL REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The stationary RICE associated with Source ID P117 is subject to the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40 CFR Part 60 Subpart JJJJ). The permittee shall comply with all applicable requirements of

**SECTION D. Source Level Requirements**

40 CFR §§ 60.4230 through 60.4248.

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

The stationary RICE associated with Source ID P117 is subject to the National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63 Subpart ZZZZ). The permittee shall comply with all applicable requirements of 40 CFR §§ 63.6580 through 63.6675.

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

Source P117 consists of a WPI P48GL emergency, stand-by electrical generator powered by a 1175 brake-horsepower maximum natural-gas fired reciprocating internal combustion engine (RICE) coupled to a generator.

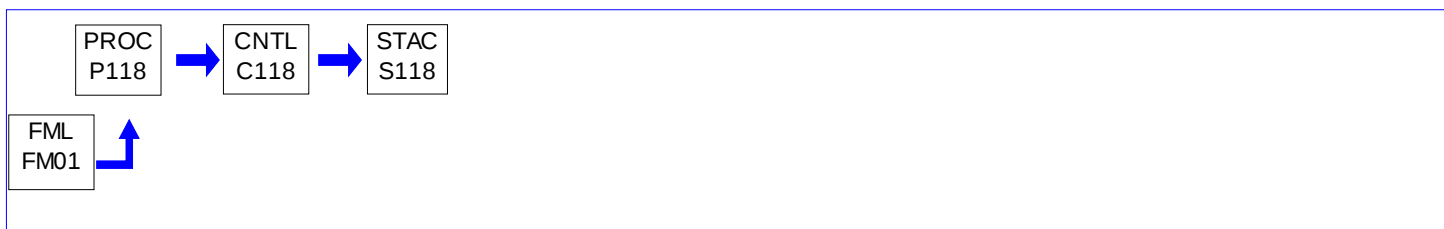
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P118

Source Name: SER SOLAR MARS 100 TURBINE

Source Capacity/Throughput: 139.000 MMBTU/HR

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

The permittee shall not emit particulate matter from the exhaust of Control Device ID C118, associated with Source ID P118, in excess of 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

002 [25 Pa. Code §123.21]**General**

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

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

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the annual emissions from the operation of the compression process incorporated into Source ID P118, including emissions from startup and shutdown, shall not exceed any of the following in any 12 consecutive month period:

- (i) 33.5 tons of nitrogen oxides, expressed as NO₂;
- (ii) 23.8 tons of carbon monoxide;
- (iii) 1.2 tons of particulate matter (filterable only);
- (iv) 4.1 tons of PM₁₀ (filterable and condensable);
- (v) 4.1 tons of PM_{2.5} (filterable and condensable);
- (vi) 2.6 tons of volatile organic compounds (including formaldehyde);
- (vii) 0.2 tons of formaldehyde; and
- (viii) 0.8 tons of sulfur oxides, expressed as SO₂.

(b) For each month during the first eleven months of operation of Source ID P118, including the shakedown period, the sum of the emissions from the operation of the compression process incorporated into Source ID P118 from all preceding months of operation shall not exceed the limits included in part (a) of this condition.

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

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P118 shall not emit into the outdoor atmosphere carbon monoxide (CO) in a manner that the concentration of CO in the exhaust of the natural gas-fired turbine associated with Source ID P118 is in excess of 2 parts per million, by volume, dry basis, corrected to 15% oxygen.

(b) The restriction specified in (a) of this condition applies at all times of operation except as provided below:

- i) Periods when the ambient temperature is below 0°F (non-SoLoNO_x operation).
- ii) During startup and shutdown operations.

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

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P118 shall not emit into the outdoor atmosphere volatile organic compounds (VOCs) in a manner that the concentration of VOCs (as propane) in the exhaust of the natural gas-fired turbine associated with Source ID P118 is in excess of 3 parts per million, by volume, dry basis, corrected to 15% oxygen.

(b) The restriction specified in (a) of this condition applies at all times of operation except as provided below:

- i) Periods when the ambient temperature is below 0°F (non-SoLoNOx operation).
- ii) During startup and shutdown operations.

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

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provisions specified in 40 CFR §60.4320]

(a) Pursuant to 25 Pa. Code §§127.1 and 127.12, the permittee shall operate Source ID P118 in a manner such that the nitrogen oxides (NOx) emissions, expressed as NO₂, into the outdoor atmosphere from the natural gas-fired turbine associated with Source ID P118 shall not exceed 12 ppm, by volume, dry basis, corrected to 15% oxygen.

(b) The NOx emission limitation as specified in paragraph (a) of this condition applies at all times of operation except during those periods in which the ambient temperature is below 0 degrees Fahrenheit or during startup and shutdown operations.

(c) During startup and shutdown periods of operation, Source ID P118 shall not emit into the outdoor atmosphere NOx in a manner that the total mass of NOx emissions, expressed as NO₂, is greater than 3.1 pounds. During periods of operation in which the ambient temperature is below 0 degrees Fahrenheit, Source ID P118 shall not emit into the outdoor atmosphere NOx in a manner that the concentration of NOx, expressed as NO₂, in the exhaust of the natural gas-fired turbine associated with Source ID P118 is in excess of 42 parts per million, by volume, dry basis, corrected to 15% oxygen.

(d) Demonstration of compliance with the emission limitations in paragraph (c) is based upon emissions calculations using the manufacturer's emissions data and guarantees.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P118 shall not emit into the outdoor atmosphere particulate matter (filterable only) from the natural gas-fired turbine associated with Source ID P118 in excess of the rate equal to 0.0019 pound per million British Thermal Units (lb/MMBTU) of heat input to the turbine (3-hour block average).

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P118 shall not emit into the outdoor atmosphere particulate matter with an aerodynamic diameter less than 10 microns (filterable and condensable) from the natural gas-fired turbine associated with Source ID P118 in excess of the rate equal to 0.0066 pound per million British Thermal Units (lb/MMBTU) of heat input to the turbine (3-hour block average).

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P118 shall not emit into the outdoor atmosphere particulate matter with an aerodynamic diameter less than 2.5 microns (filterable and condensable) from the natural gas-fired turbine associated with Source ID P118 in excess of the rate equal to 0.0066 pound per million British Thermal Units (lb/MMBTU) of heat input to the turbine (3-hour block average).

**SECTION D. Source Level Requirements****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P118 shall not emit into the outdoor atmosphere formaldehyde from the natural gas-fired turbine associated with Source ID P118 in excess of the rate equal to 0.000288 lb/MMBTU of heat input to the turbine.

(b) The restriction specified in (a) of this condition applies at all times of operation except as provided below:

- i) Periods when the ambient temperature is below 0°F (non-SoLoNOx operation).
- ii) During startup and shutdown operations.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6100]**Subpart YYYY--National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines****What emission and operating limitations must I meet?**

(a) The permittee shall limit the concentration of formaldehyde in the exhaust of Source ID P118 to 91 ppbvd or less at 15-percent O₂, except during turbine startup.

(b) For the purposes of this condition, startup begins at the first firing of fuel in Source ID P118 and ends when the stationary combustion turbine has reached stable operation or after 1 hour, whichever is less.

Fuel Restriction(s).**# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the permittee shall only fire pipeline-quality natural gas as fuel to operate Source ID P118.

(b) Pursuant to the requirements of 40 CFR Section 60.4330(a)(2), the total sulfur content of the natural gas shall not have the potential to produce emissions of SO₂ in excess of 0.060 lb/MMBtu of heat input to Source ID P118.

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

(a) Within 180 days of initial start-up of the natural gas-fired combustion turbine incorporated into Source ID P118, the permittee shall conduct EPA reference method testing programs to determine the emission rates of nitrogen oxides, carbon monoxide, volatile organic compounds, formaldehyde, particulate matter, total PM₁₀ (filterable and condensable) and total PM_{2.5} (filterable and condensable) while the turbine is operating at plus or minus 10 percent of peak process load, or at other load as approved by the Department.

(b) All testing shall be performed pursuant to 25 Pa. Code Chapter 139, test methods and procedures that are acceptable to the Department as well as the applicable testing provisions as specified in 40 CFR Section 60.4400.

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

[Additional authority for this permit condition is also derived from 40 CFR §§ 60.4340(a) and 63.6115]

(a) After the performance of the initial EPA reference method testing program, subsequent EPA reference method testing programs shall be conducted on the exhaust of the natural gas-fired combustion turbine incorporated into Source ID P118 on an approximate annual basis, in order to determine the formaldehyde emission rates while the process is operating at peak load. "Annual basis" for purposes of this condition is defined to be no more than 12 months from the date of the previous test.

(b) After the performance of the initial EPA reference method testing program, subsequent EPA reference method testing programs shall be conducted on the exhaust of the natural gas-fired combustion turbine incorporated into Source ID P118 on an approximate biennial basis, in order to determine the nitrogen oxides and carbon monoxide emission rates while the process is operating at peak load. "Biennial basis" for purposes of this condition is defined to be no more than 24 months

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from the date of the previous test.

(c) After the performance of the initial EPA reference method testing program, subsequent EPA reference method tests shall be conducted on the exhaust of the natural gas-fired combustion turbine incorporated into Source ID P118 on an approximate triennial basis to determine the volatile organic compound emission rates while the process is operating at peak load, but in each case, subsequent tests shall occur no less than 32 months and no more than 36 months following the previous test.

(d) All subsequent testing shall be performed using test methods and procedures which are acceptable to the Department and in accordance with 40 CFR Sections 60.4400 and 63.6120.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the combustion turbine of Source ID P118 shall be equipped, prior to the turbine's initial start-up date, with instrumentation that monitors the manufacturer's recommended operational parameters and continuously indicates whether Source ID P118 is operating in or out of low- NO_x mode, i.e. SoLoNO_x mode.

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

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the oxidation catalyst (ID C118) shall be equipped with instrumentation to continuously monitor the catalyst bed inlet and outlet temperatures as well as the pressure differential across the catalyst bed to verify the temperature and pressure differential parameters are within the acceptable ranges established during performance testing.

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

(a) The operating parameters associated with the turbine and oxidation catalyst being monitored shall also be monitored during the initial and subsequent EPA reference method testing program for Source ID P118 as required herein.

(b) The permittee may supplement the operating parameter data collected during EPA reference method testing with Department-approved engineering analyses, design specifications and/or manufacturers' recommendations.

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

The primary seal vent pressure (or other indicators as approved by the Department) shall be monitored per the manufacturer's specification to verify the primary dry seal incorporated into the design of the centrifugal compressor associated with Source ID P118 has not deteriorated past its useful life due to normal wear and tear, contamination, etc. An alarm shall sound if abnormal seal operation is detected.

019 [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 NO_x 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 and/or duration 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 NO_x and CO emissions using a portable analyzer, the permittee shall submit the results to the Department. The Department reserves the right to require

**SECTION D. Source Level Requirements**

performance tests in accordance with EPA reference test methods should the data from the portable analyzer warrant such tests.

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

[Additional authority for this permit condition is also derived from 40 CFR §§ 60.4360-60.4370]

The company shall monitor the sulfur content of the natural gas used in Source ID P118 by either:

(a) Determining the sulfur content of the fuel using total sulfur methods described in 40 CFR §60.4415 at the frequency specified in either 40 CFR §60.4370(b) or §60.4370(c); OR

(b) The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the maximum total sulfur content for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet, has potential sulfur emissions of less than less than 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input; OR

(c) Representative fuel sampling data which shows that the sulfur content of the fuel does not exceed 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of 40 CFR Part 75 Appendix D is required.

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

The permittee shall install instrumentation capable of accurately measuring the quantity of natural gas combusted in Source ID P118.

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

The permittee shall monitor emissions of NO_x, CO, PM, PM₁₀, PM_{2.5}, VOCs, SO_x, and formaldehyde, by using fuel consumption data and the most recent stack testing results to perform emissions calculations, on a calendar monthly basis, to verify compliance with the 12 consecutive month emissions limitations for Source ID P118.

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

(a) The inlet temperature to the oxidation catalyst (ID C118) shall be maintained in the range of 750 to 1,069 degrees Fahrenheit.

(b) Compliance with the catalyst inlet temperature restriction shall be demonstrated on a 3-hour rolling average basis.

(c) The restriction specified in (a) of this condition applies at all times except during startup and shutdown of the turbine.

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

(a) The differential pressure across the oxidation catalyst (ID C118) shall be maintained below 4.0 inches of water.

(b) Compliance with the catalyst differential pressure restriction shall be demonstrated on a 3-hour rolling average basis.

(c) The restriction specified in (a) of this condition applies at all times except during startup and shutdown of the turbine.

025 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6125]**Subpart YYYY--National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines****What are my monitor installation, operation, and maintenance requirements?**

The permittee shall monitor on a continuous basis the catalyst (ID C118) inlet temperature and maintain the 4-hour rolling average of the catalyst inlet temperature within the range suggested by the catalyst manufacturer. It is not required to use the catalyst inlet temperature data that is recorded during startup in the calculations of the 4-hour rolling average catalyst inlet temperature.

**SECTION D. Source Level Requirements****# 026 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6135]****Subpart YYYY--National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines****How do I monitor and collect data to demonstrate continuous compliance?**

- (a) Except for monitor malfunctions, associated repairs, and required quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments of the monitoring system), the permittee shall conduct all parametric monitoring at all times that Source ID P118 is operating.
- (b) Do not use data recorded during monitor malfunctions, associated repairs, and required quality assurance or quality control activities for meeting the requirements of 40 CFR Part 63 Subpart YYYY, including data averages and calculations. The permittee shall use all the data collected during all other periods in assessing the performance of Control Device ID C118 or in assessing emissions from Source ID P118.

IV. RECORDKEEPING REQUIREMENTS.**# 027 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The permittee shall keep accurate and comprehensive records of the following information:
- i) The monthly air contaminant emissions from the operation of Source ID P118, including the monthly combustion turbine emission calculations for periods of startup/shutdown, in order to verify compliance with the 12 consecutive month emissions restrictions.
 - ii) The amount of fuel used in the combustion turbine on a monthly basis.
 - iii) The number of hours the combustion turbine operated on a monthly basis.
 - iv) The number of startups and shutdowns performed each month on the combustion turbine.
 - v) The copy of the EPA reference method stack testing reports and the parameters data obtained during each performance test.
 - vi) The supporting documentation for each period of operation of the combustion turbine in non-SoLoNOx mode.
 - (vii) The total cumulative period of time that the combustion turbine operated in non-SoLoNOx mode.
 - (viii) Maintenance performed on Source ID P118.

(b) All information generated to meet the requirements of this condition shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

(a) The permittee shall keep accurate and comprehensive records, such as but not limited to, the manufacturers' suggested quality assurance practices and manuals for the monitoring instrumentation; the date and personnel performing each calibration on the instrumentation; result of calibration; the corrective actions based on the results of each calibration, in order to verify the performance of the monitoring instrumentation used as part of the parameter monitoring plan for the natural gas-fired combustion turbine of Source ID P118 is within the manufacturers' tolerances and specifications.

(b) All information generated to meet the requirements of this condition shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

(a) The permittee shall keep records of the periodic inspections conducted on the centrifugal compressor's dry seal performance indicators including the date of inspection; personnel conducting the inspections and all corrective actions performed as a result of the inspection findings.

(b) All information generated to meet the requirements of this condition shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

The results of the completed portable analyzer monitoring for NOx and CO emissions shall be kept for a period of 5 years.

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

(a) The permittee shall keep records of the data averages as part of the parameter monitoring plan from the inlet and outlet catalyst temperature and manufacturer's suggested low-NO_x parameter monitoring systems to verify the averages are within the respective ranges developed as part of the parameter monitoring plan.

(b) The permittee shall create and maintain a current, up-to-date, parameter monitoring plan for Source ID P118.

(c) All information generated to meet the requirements of the conditions shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

032 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6125]**Subpart YYYY--National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines****What are my monitor installation, operation, and maintenance requirements?**

The permittee shall develop and implement a continuous monitoring system (CMS) quality control program that includes written procedures for CMS according to 40 CFR § 63.8(d)(1) through (2). The permittee shall keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of this 40 CFR Part 63 Subpart YYYY, to be made available for inspection, upon request, by the Department. If the performance evaluation plan is revised, the permittee shall keep previous (i.e., superseded) versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Department, for a period of 5 years after each revision to the plan. The program of corrective action should be included in the plan required under 40 CFR § 63.8(d)(2).

V. REPORTING REQUIREMENTS.**# 033 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall submit the following information for the annual report of air contaminant emissions from Source ID P118:

- (i) the monthly emissions of nitrogen oxides, sulfur oxides, volatile organic compounds, formaldehyde, greenhouse gas emissions (expressed as CO₂e), particulate matter, total PM₁₀ and total PM_{2.5}, including the supporting calculations;
- (ii) 12-month rolling total emissions of nitrogen oxides, sulfur oxides, volatile organic compounds, formaldehyde, greenhouse gas emissions (expressed as CO₂e), particulate matter, total PM₁₀ and total PM_{2.5}, including the supporting calculations;
- (iii) 12-month rolling total of natural gas combusted in Source ID P118;
- (iv) Emission calculations for the quantity of vented gas.

(b) Source ID P118 shall be included in the annual AIMS report in accordance with 25 Pa. Code § 135.3 which is included herein under Section C, V. Reporting Requirements.

(c) The annual compliance report information and AIMS report shall cover the operation of Source ID P118 during the preceding calendar year period, January 1 through December 31 and shall be submitted to the Department by March 1 of each calendar year.

034 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) In addition to the malfunction reporting requirements specified in Section C, the permittee shall submit the following information for Source ID P118 on an annual basis:

- (i) Periods when Source ID P118 is running and the operating parameters fall outside the respective ranges established in the current parameter monitoring plan;
- (ii) Periods when Source ID P118 is running and the operating parameter averages are not available.
- (iii) Periods when Source ID P118 is running and the operating parameter averages were not reduced from the set of measurements due to monitoring downtime or periods of invalid data, (e.g. if an operating parameter is being measured every 15 seconds, the full set of measurements for a 1-hour average would be equal to 240).

**SECTION D. Source Level Requirements**

(b) The investigative findings and corrective actions that resulted from the periods reported pursuant to part (a) of this condition.

(c) The annual reporting information shall cover the operation of Source ID P118 during the preceding calendar year period, January 1 through December 31 and shall be submitted to the Department by March 1 of every calendar year.

035 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall comply with the reporting requirements specified in the applicable provisions of 40 CFR §§ 60.4375 and 60.4395.

036 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The submission of all requests, reports, applications, submittals and other communications required by 40 CFR Sections 60.4300 through 60.4420 and 63.6080 through 63.6175 shall be made to both the Department of Environmental Protection and the Environmental Protection Agency. The Environmental Protection Agency copies may be sent to:

Environmental Protection Agency
Office of Enforcement and Compliance Assistance (3AP20)
1650 Arch Street
Philadelphia, PA 19103

(b) NSPS and MACT reports that are submitted electronically to EPA's Central Data Exchange must be sent to the following website:

<https://cdx.epa.gov/>

037 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6150]**Subpart YYYY--National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines****What reports must I submit and when?**

[Additional authority for this permit condition is also derived from 40 CFR §§ 63.6140(b) and 63.6155]

(a) The permittee shall submit a semiannual compliance report according to Table 6 of 40 CFR Part 63 Subpart YYYY. The semiannual compliance report shall contain the information described in paragraphs 40 CFR § 63.6150(a)(1) through (5), including each instance of deviation from the Subpart YYYY limitations, as required by 40 CFR § 63.6140(b).

(b) The permittee shall, within 60 days after the date of completing each formaldehyde performance test required by Subpart YYYY, submit the results of the performance test (as specified in 40 CFR § 63.6145(f)) following the procedures specified in paragraphs 40 CFR § 63.6150(f)(1) through (3).

(c) The permittee shall retain records of these reports, as well as any other notifications and reports required by Subpart YYYY, in accordance with the provisions of 40 CFR § 63.6155.

VI. WORK PRACTICE REQUIREMENTS.**# 038 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the centrifugal compressor associated with Source ID P118 shall incorporate dry seals to control fugitive leaks from the source.

(b) The centrifugal compressor, along with the dry seals, associated with Source ID P118 shall be maintained in accordance with the manufacturer's recommended practices.

039 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from the requirements specified in 40 CFR §§ 60.4333(a) and

**SECTION D. Source Level Requirements**

63.6105(c)]

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the permittee shall operate and maintain the combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

VII. ADDITIONAL REQUIREMENTS.**# 040 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source ID P118 is subject to Subpart KKKK of the federal Standards of Performance for New Stationary Sources, 40 CFR Sections 60.4300-60.4420. The permittee shall comply with all applicable requirements specified in 40 CFR Sections 60.4300-60.4420.

041 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Source ID P118 consists of a natural gas compression process which includes a mechanical compressor coupled to a natural gas-fired, "Special Engine Request" Solar Model Mars 100 combustion turbine with a heat input capacity at peak load and 0°F ambient site conditions equal to 139.0 MMBtu/hr. The emissions from Source ID P118 shall be controlled by an oxidation catalyst (Control Device ID C118).

042 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The following definitions apply to the operation of Source ID P118:

(a) "Startup" means the ten minute period following the setting in operation of Source ID P118 for any purpose.

(b) "Shutdown" means the ten minute period preceding cessation of operation of Source ID P118 for any purpose.

043 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Source ID P118 is subject to the National Emissions Standards for Hazardous Air Pollutants for Stationary Combustion Turbines (40 CFR Part 63 Subpart YYYY). The permittee shall comply with all applicable requirements of 40 CFR §§ 63.6080 through 63.6175.

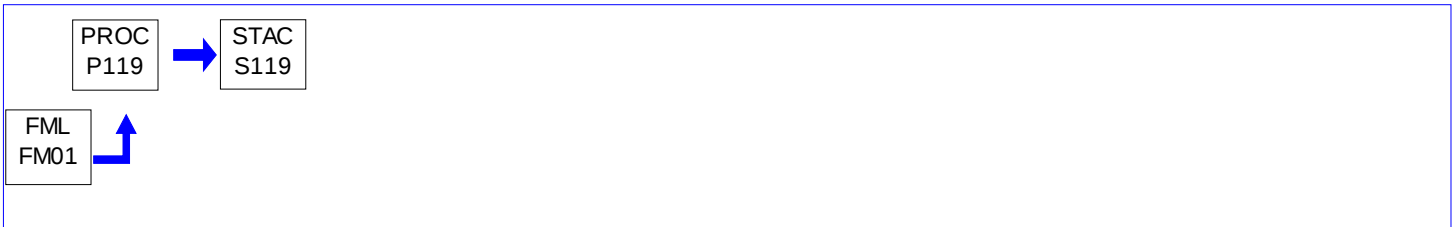
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**SECTION D. Source Level Requirements**

Source ID: P119

Source Name: 1065 BHP EMERGENCY GENERATOR

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 also derived from 25 Pa. Code §§127.1, 127.12 and 40 CFR § 60.4233(e)]

(a) The permittee shall operate the emergency stand-by power generating process incorporated into Source ID P119 in a manner such that the rate of emissions from the stationary reciprocating internal combustion engine (RICE) does not exceed the following limitations:

- (i) Nitrogen Oxide - 2.0 grams per horsepower-hour
- (ii) Carbon Monoxide - 1.3 grams per horsepower-hour
- (iii) Volatile Organic Compound - 0.3 grams per horsepower-hour

(b) At operating conditions less than rated capacity, Source ID P119 shall, on a pounds-per-hour basis, emit no more than it emits at rated bhp and rated speed.

Fuel Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

Source ID P119 shall only be fired on pipeline-quality natural gas.

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

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

The permittee shall operate the stationary RICE associated with Source ID P119 such that the duration of operation is less than 500 hours in any 12 consecutive month period.

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

The hours of operation of Source ID P119 shall also comply with the restrictions specified in 40 CFR §60.4243(d).

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

[Additional authority for this permit condition is also derived from 40 CFR §60.4244]

Any required testing of Source ID P119 shall be performed pursuant to 25 Pa. Code Chapter 139, test methods and

**SECTION D. Source Level Requirements**

procedures that are acceptable to the Department as well as the applicable testing provisions as specified in 40 CFR §60.4244.

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4243(b)(2)(ii)]

(a) After the performance of the initial EPA reference method testing program, subsequent EPA reference method testing programs shall be conducted on the exhaust of the stationary reciprocating internal combustion engine incorporated into Source ID P119 every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance with the NO_x, CO, and VOC emission limitations specified in Condition #001 for Source ID P119.

(b) All subsequent testing shall be performed using test methods and procedures which are acceptable to the Department and in accordance with 40 CFR Section 60.4244.

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4237(a)]

Prior to initial stationary RICE start-up, the permittee shall equip the stationary RICE associated with Source P119 with a non-resettable hour meter that logs the run-time of Source ID P119.

IV. RECORDKEEPING REQUIREMENTS.**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?**

The permittee shall comply with the applicable recordkeeping provisions of 40 CFR §60.4245(a)-(b).

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

(a) The submission of all requests, reports, applications, submittals and other communications required by 40 CFR Sections 60.4230 through 60.4248 shall be made to both the Department of Environmental Protection and the Environmental Protection Agency. The Environmental Protection Agency copies may be sent to:

Environmental Protection Agency
Office of Enforcement and Compliance Assistance (3AP20)
1650 Arch Street
Philadelphia, PA 19103

or

R3_SubpartJJJJ@epa.gov (to be used only for test reports/protocols in lieu of hard copies)

(b) NSPS and MACT reports that are submitted electronically to EPA's Central Data Exchange must be sent to the following website:

<https://cdx.epa.gov/>

**SECTION D. Source Level Requirements****# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?**

(a) If Source ID P119 has not been certified by the engine manufacturer to meet the emission standards in 40 CFR §60.4231, the permittee must submit an initial notification as required in 40 CFR §60.7(a)(1). The notification must include the following information:

- i) Name and address of the owner or operator;
- ii) The address of the affected source;
- iii) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
- iv) Emission control equipment; and
- v) Fuel used.

(b) A copy of each performance test as conducted in 40 CFR §60.4244 shall be submitted within 60 days after the test has been completed.

(c) If Source ID P119 operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR §60.4243(d)(2)(ii) and (iii) or that operates for the purposes specified in 40 CFR §60.4243(d)(3)(i), the permittee must submit an annual report according to the following requirements:

i) The report must contain the following information:

- (1) Company name and address where the engine is located.
- (2) Date of the report and beginning and ending dates of the reporting period.
- (3) Engine site rating and model year.
- (4) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
- (5) Hours operated for the purposes specified in 40 CFR §60.4243(d)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR §60.4243(d)(2)(ii) and (iii).
- (6) Number of hours the engine is contractually obligated to be available for the purposes specified in 40 CFR §60.4243(d)(2)(ii) and (iii).
- (7) Hours spent for operation for the purposes specified in 40 CFR §60.4243(d)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in 40 CFR §60.4243(d)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

ii) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

iii) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA at the appropriate address listed in 40 CFR §60.4.

VI. WORK PRACTICE REQUIREMENTS.**# 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

The permittee shall demonstrate compliance with the emission limits for Source ID P119 by keeping a maintenance plan and records of conducted maintenance and, to the extent practicable, maintaining and operating the RICE in a manner consistent with good air pollution control practice for minimizing emissions.

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

The stationary RICE associated with Source ID P119 is subject to the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40 CFR Part 60 Subpart JJJJ). The permittee shall comply with all applicable requirements of 40 CFR §§ 60.4230 through 60.4248.

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

The stationary RICE associated with Source ID P119 is subject to the National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR Part 63 Subpart ZZZZ). The permittee shall comply with all applicable requirements of 40 CFR §§ 63.6580 through 63.6675.

Pursuant to 40 CFR §63.6590(b)(i), Source ID P119 is subject to limited requirements under Subpart ZZZZ and is only required to comply with the initial notification requirements of 40 CFR §63.6645(f).

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

Source P119 consists of an emergency, stand-by electrical generator powered by a Waukesha P48GL 1065 brakehorsepower maximum natural-gas fired reciprocating internal combustion engine (RICE) coupled to a generator.

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



SECTION E. Source Group Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

The following air contaminant sources are considered to be insignificant emission sources and have been determined to be exempt from permit 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) Fourteen (14) Bruest model B2460CG rated at 0.06 MMBtu/hr shall vent internally
- (b) One (1) Portable P/L Condensate Tank - 500 gallons
- (c) One (1) Lube Oil day Tank - 221 gallons.
- (d) One (1) Diesel Fuel Tank - 275 gallons.
- (e) One (1) Portable Generator, John Deere, Diesel Fired, 80 HP
- (f) Twenty (20) miscellaneous storage tanks less than 2000 gallon capacity
- (g) Blowdown Emissions

In accordance with 25 Pa. Code Section 129.111(c), as long as the potential to emit nitrogen oxides and volatile organic compounds from each individual source identified under items (a) through (g) as listed above are less than one ton per year, the provisions of 25 Pa. Code Sections 129.111 - 129.114 are not applicable.



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