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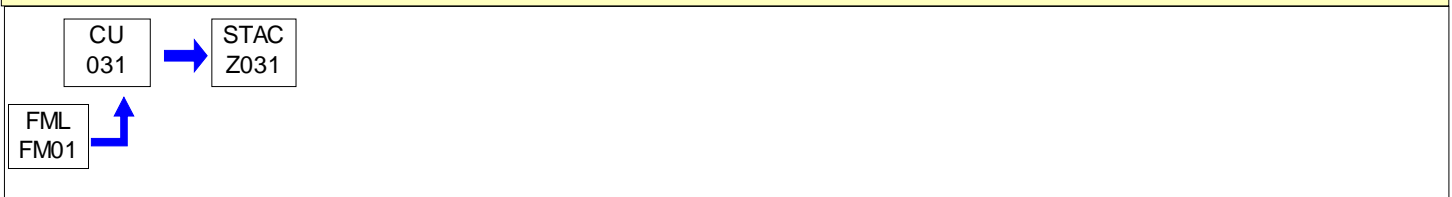
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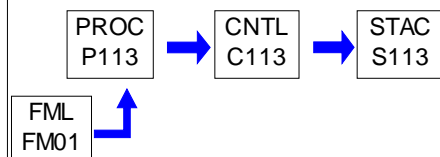
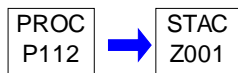
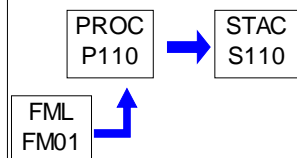
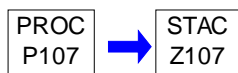
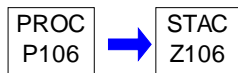
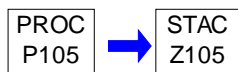
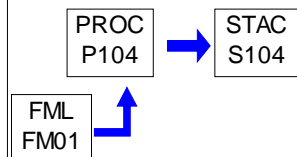
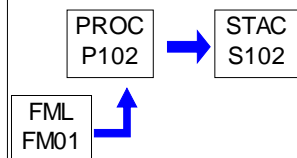
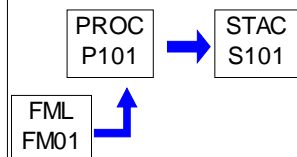
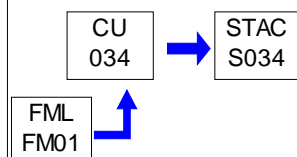
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	HEATERS		
034	GLYCOL HEATER	2.100 MMBTU/HR	
		2.300 MCF/HR	Natural Gas
P101	#1 SOLAR CENTAUR TURBINE	54.000 MCF/HR	Natural Gas
P102	#2 SOLAR CENTAUR TURBINE	54.000 MCF/HR	Natural Gas
P104	STANDBY GENERATOR	3.700 MCF/HR	Natural Gas
P105	PIPELINE LIQUIDS TANK (8400 GAL)		
P106	PIPELINE VALVES AND FLANGES		
P107	3 STORAGE TANKS (>2000 GALLONS)		
P110	SOLAR MARS TURBINE 4	115.600 MCF/HR	Natural Gas
P112	PARTS CLEANING STATION		
P113	30000 BHP, SOLAR TITAN 250S TURBINE	213.700 MCF/HR	Natural Gas
P114	SOLAR MARS 100S TURBINE	129.400 MCF/HR	Natural Gas
P115	1380 BHP EMERGENCY GENERATOR, WAUKESHA L5794GSI		
P116	SER SOLAR MARS 100 TURBINE	136.194 MMBTU/HR	
FM01	NATURAL GAS PIPELINE		
S034	GLYCOL HEATER STACK		
S101	TURBINE 1 STACK		
S102	TURBINE 2 STACK		
S104	GENERATOR STACK		
S110	TURBINE 4 STACK		
S113	TITAN 250S TURBINE STACK		
S114	MARS 100S TURBINE STACK		
S115	EMERGENCY GENERATOR STACK		
S116	MARS 100 TURBINE STACK		
Z001	FUGITIVE EMISSIONS		
Z031	HEATERS EMISSIONS		
Z105	TANK EMISSIONS		
Z106	FUGITIVE EMISSIONS		
Z107	TANK EMISSIONS		

PERMIT MAPS



PERMIT MAPS





PERMIT MAPS



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

the Department.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

(5) The results of the analyses.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Under no circumstances shall the total emissions of nitrogen oxides or any individual air contaminant from all air contamination sources at this facility (Station 517) equal or exceed 250 tons in any 12 consecutive month period. This limitation serves to limit the facility's potential to emit below the level which triggers the regulatory requirements related to Prevention of Significant Deterioration (PSD).

**SECTION C. Site Level Requirements****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) Pursuant to 25 Pa. Code § 139.3, at least 90 calendar days prior to commencing a EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. One electronic copy and one hard copy shall be sent to the Northcentral Regional Office Air Quality Program Manager and one hard copy 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), one electronic copy and one hard copy of all submittals, besides notifications, shall be sent to the Northcentral Regional Office Air Quality Program Manager, with deadlines verified by postmark. In addition, one electronic copy and one hard copy shall be sent to the PSIMS Administrator in Central Office. Mail and email addresses are provided on the PADEP website.

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

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

Upon the request of the Department, the 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.

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

(a) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the source is operating at

**SECTION C. Site Level Requirements**

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 effect 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.**# 009 [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.

010 [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 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;

**SECTION C. Site Level Requirements**

- 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.

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

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

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 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 to determine:

- (1) The presence of visible emissions,

**SECTION C. Site Level Requirements**

- (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.

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

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

- (a) The permittee shall keep records of the emission of nitrogen oxide (NOx) emissions from all sources at this facility on a monthly basis and the supporting calculations used to verify compliance with the total emissions limitation of 250 tons of nitrogen oxide (NOx) in any 12 consecutive month period .
- (b) These records shall be kept for a minimum of five (5) years and be made available to the Department upon request.

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 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.

015 [25 Pa. Code §135.5]**Recordkeeping**

The permittee shall keep and make available upon request by the Department records including computerized records that may be necessary to comply with 25 Pa. Code Sections 135.3 and 135.21 (relating to reporting; and emission statements). These 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 direct means.

V. REPORTING REQUIREMENTS.**# 016 [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 of the emission of nitrogen oxides (NOx, expressed as NO₂) on an monthly basis from all sources at this facility and the supporting calculations used to verify compliance with the emissions limitation of 250 tons of nitrogen oxides (NOx, expressed as NO₂) in any 12 consecutive month period.
- (b) The semi-annual report shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and no later than September 1 (for July 1 of the previous year through June 30 of the concurrent year).

**SECTION C. Site Level Requirements****# 017 [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 the annual compliance certifications to the Department and EPA Region III, as specified in Condition #026 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 #025 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)

018 [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.

019 [25 Pa. Code §127.442]**Reporting requirements.**

Malfunctions, Emergencies or Incidents of Excess Emissions

(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.

**SECTION C. Site Level Requirements**

(g) Any emissions which resulted from malfunction or emergency are to be reported in the annual emissions inventory report.

020 [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 (NOx) 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.

(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.**# 021 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

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

(1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads or the clearing of land,

(2) Application of asphalt, oil, or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts,

(3) Paving and maintenance of roadways,

(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.**# 022 [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)).

023 [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.

024 [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.

**SECTION C. Site Level Requirements****# 025 [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: 031

Source Name: HEATERS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.22]

Combustion units

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

No person may permit the emission of sulfur oxides (SO_x), expressed as SO₂ into the outdoor atmosphere from each unit of Source ID 031 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 use only pipeline quality natural gas as fuel for each heater of Source ID 031.

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 031 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.

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.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.93]

**SECTION D. Source Level Requirements**

The permittee shall maintain and operate each heater of Source ID 031 in accordance with the manufacturers specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 031 consists of the following natural gas-fired heaters:

- (1) Four (4) Space Heaters, Modine Model #PA-75-AB, rated heat input of 0.075 MMBtu/hr each
- (2) One (1) Space Heater, York, Model #P3UCD2QN10601A, rated heat input of 0.133 MMBtu/hr
- (3) 12 Space Heaters, Bruest, Model #B2460CG, rated heat input of 0.06 MMBtu/hr each

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

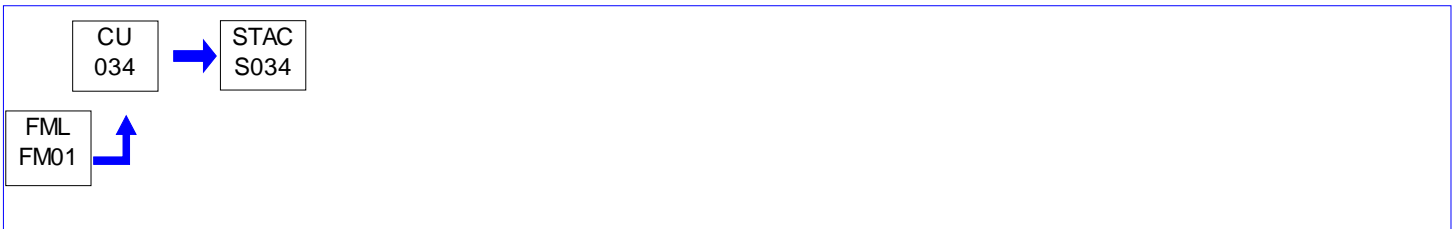
**SECTION D. Source Level Requirements**

Source ID: 034

Source Name: GLYCOL HEATER

Source Capacity/Throughput: 2.100 MMBTU/HR

2.300 MCF/HR Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.22]****Combustion units**

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

No person may permit the emission of sulfur oxides (SO_x), expressed as SO₂ into the outdoor atmosphere from Source ID 034 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

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

The permittee shall not permit emissions of the following air pollutants from Source ID 034 in excess of the limitations listed below:

- (a) carbon monoxide (CO) - 0.031 pounds per hour and 0.12 tons in any 12 consecutive month period;
- (b) nitrogen oxides (NO_x expressed as NO₂) - 0.251 pounds per hour and 0.94 tons in any 12 consecutive month period;
- (c) nonmethane hydrocarbons - 0.008 pounds per hour and 0.03 tons in any 12 consecutive month period.

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

The permittee shall use only pipeline quality natural gas as fuel for Source ID 034.

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

The glycol heater associated with Source ID 034 shall combust no more than 15.4 million cubic feet of natural gas in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

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

(a) The permittee shall keep records of the following for Source ID 034:

(1) The quantity of natural gas fuel combusted on a monthly basis.

(2) The emission of carbon monoxide (CO), nitrogen oxide (NO_x), and nonmethane hydrocarbon on a monthly basis, and the supporting calculations used to verify compliance with the carbon monoxide (CO), nitrogen oxide (NO_x), and nonmethane hydrocarbon emission limitations for Source ID 034 in any 12 consecutive month period.

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

006 [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 heater contained in Source ID 034 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 NO_x.

V. REPORTING 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 127.511]

(a) The permittee shall submit an annual report to the Department, including the emission of carbon monoxide (CO), nitrogen oxide (NO_x), and nonmethane hydrocarbon on a monthly basis, and the supporting calculations used to verify compliance with the carbon monoxide (CO), nitrogen oxide (NO_x), and nonmethane hydrocarbon emission limitations for Source ID 034 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.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.93]

The permittee shall maintain and operate Source ID 034 in accordance with manufacturers specifications, and good air pollution control practices.

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

Source ID 034 is a 2.093 MMBtu per hour natural gas fired Sellers Boiler model 15 Commodor G-50-W glycol heater.

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

**SECTION D. Source Level Requirements**

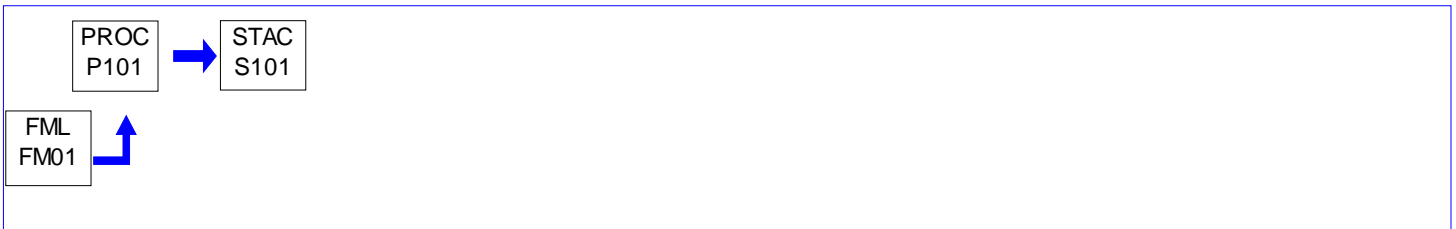
Source ID: P101

Source Name: #1 SOLAR CENTAUR TURBINE

Source Capacity/Throughput:

54.000 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.**

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

{Compliance with the requirement specified in this streamlined permit condition assures compliance with the provisions in 25 Pa. Code §129.112 and 40 CFR Part Subpart GG for nitrogen oxide (NO_x) emissions}

The permittee shall not cause, allow, or permit emissions of the following air pollutants from Source ID P101 in excess of the limitations listed below:

(a) carbon monoxide (CO) - 5.2 pounds per hour and 9.2 tons in any 12 consecutive month period.

(b) nonmethane hydrocarbons - 0.8 pounds per hour and 1.4 tons in any 12 consecutive month period.

(c) nitrogen oxides (NO_x) - 25 ppmvd @ 15% oxygen as of the final compliance date specified in the alternative compliance schedule detailed in paragraph (d) below.

(d) Pursuant to 25 Pa. Code §129.112(n), an alternative compliance schedule for the emission limitation specified in paragraph (c) has been established as follows:

(i) Source ID P101 is a Compressor Turbine, natural-gas fired, Solar, Model Centaur 50, 5500 HP, 46.9 MMBtu/hr rated heat input, Installation date 1992, Turbine #1 located at Transco Compressor Station 517 in Jackson Township, Columbia County.

(ii) The proposed air cleaning device includes a new turbine core which has been designed to reach an emission level of 25 ppmvd NO_x @ 15% O₂. Turbine control system upgrades and replacement systems include the addition of a burner acoustic monitor, a new gas fuel module, facility fuel monitoring, direct drive alternating current system upgrades, engine bleed valve and variable guide vane actuator upgrades, gas compressor anti-surge control upgrades, unit control balance of the plant, balance of plant control valves, among many other replacements, upgrades, and mechanical modifications.

(iii) The remaining phases of the installation of the proposed air cleaning devices are projected to be completed by the

**SECTION D. Source Level Requirements**

following dates:

- (A) Solar Controls Installation Planning Meeting and Installation Kick-Off.....6/21/2024
- (B) Source ID P101 Demo/Electrical.....7/05/2024
- (C) Source ID P101 Turbine Exchange.....7/09/2024
- (D) Source ID P101 Automation Changeout.....7/23/2024
- (E) Source ID P101 Startup.....7/31/2024
- (F) Source ID P101 Mechanical Completion.....7/31/2024
- (G) Source ID P101 In-Service Date.....7/31/2024
- (H) Solar Controls Installation Completed.....7/31/2024
- (I) Source ID P101 Stack Testing.....7/31/2024

(iv) Prior to the final compliance date specified in (d)(v) below, Source ID P101 shall comply with NOx emission limitations of 19.3 lb/hr, 34.0 tons in any 12 consecutive month period, and 150 ppmvd @ 15% Oxygen.

(v) The final compliance date for this alternative compliance schedule is July 31, 2024. The installation of the proposed turbine core, control system upgrades, and compliance demonstration/stack testing shall be complete by the final compliance date.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

005 [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 shall not burn in Source ID P101 any fuel which contains sulfur in excess of 0.8 percent by weight.

Operation Hours Restriction(s).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall not operate Source ID P101 more than 3,528 hours in any 12 consecutive month period.

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]

(a) The permittee shall perform annual carbon monoxide (CO), and nitrogen oxides (NOx expressed as NO₂) tests upon Source ID P101 using a portable exhaust gas analyzer approved by the Department.

(b) The EPA reference method testing required for Source ID P101 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.

(c) The Department reserves the right to require stack tests in accordance with EPA reference methods should the data from the portable analyzer warrant.

008 [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 D. Source Level Requirements**

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

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

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

(a) After a turbine core has been replaced, the permittee shall perform NO_x, CO, and NMNEHC emissions testing for the respective turbine compressor engine(s) within one-hundred twenty (120) days of completing the replacement. Stack testing shall be performed in accordance 25 Pa. Code Title 25, Chapter 139.

(b) On an approximate 5-year basis, no more than 60 months from the date of the previous test, the permittee shall perform EPA reference method stack tests upon Source ID P101 for carbon monoxide (CO), nitrogen oxides (NO_x), nonmethane hydrocarbons, and volatile organic compounds (VOCs).

(c) 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.

III. MONITORING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.95, 129.115 and 127.511]

The permittee shall keep records of the following information for Source ID P101:

- (1) The number of hours operated per month to verify compliance with the operational hour limitation in any 12 consecutive month period.
- (2) The custom fuel monitoring report.
- (3) The amount of fuel used per month.
- (4) Stack test reports on P101,
- (5) The emission of carbon monoxide (CO), nitrogen oxides (NO_x), and nonmethane hydrocarbon on a monthly basis, and the supporting calculations used to verify compliance with the carbon monoxide (CO), nitrogen oxides (NO_x), and nonmethane hydrocarbon emission limitations for Source ID P101.
- (6) The portable exhaust gas analyzer reports.
- (7) The emission of sulfur oxide and particulate matter and the supporting calculations used to verify compliance with the sulfur oxide and particulate matter emission limitations.

(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.****# 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 submit semi-annual reports to the Department on the following information for Source ID P101:

(1) The emission of carbon monoxide (CO), nitrogen oxides (NOx), and nonmethane hydrocarbon on a monthly basis, and the supporting calculations used to verify compliance with the carbon monoxide (CO), nitrogen oxides (NOx), and nonmethane hydrocarbon emission limitations in any 12 consecutive month period.

(2) The number of hours operated per month and the supporting calculations used to verify compliance with the operation hour limitation in any 12 consecutive month period.

(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).

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

The permittee shall submit the following information to the Department pertaining to the planned turbine core replacement for Source ID P101:

(a) The permittee shall provide thirty (30) days advance written notification to the Department of the planned turbine core replacement. The turbine core consists of the compressor, combustor, and power sections together.

(b) The written notice shall identify the location, the manufacturer, model, and serial number of the turbine, and the manufacturer, model, and serial number of the turbine core to be installed in the turbine and the air contaminant emission rates which will exist following the turbine core replacement, including NOx, CO and NMNEHC.

(c) The written notice shall also contain a certification from the permittee that any turbine core to be installed will be a lower emitting turbine core. The notice shall indicate whether the turbine core has been manufactured by either the existing turbine manufacturer or other manufacturer.

(d) The notice shall be accompanied by a vendor-provided guarantee of the achievable air contaminant emission rates of the new turbine core. If such a guarantee is not available, the notice shall include certification that the permittee attempted to obtain such guarantee and an explanation as to why the vendor will not provide such a guarantee.

(e) All certifications shall be signed by a responsible official and shall acknowledge that the certifying party is aware of the penalties for unsworn falsification to governmental authorities as established under 18 Pa.C.S. § 4904. The certification shall also state that based on information and belief formed after reasonable inquiry, that the information in the notice is true, accurate and complete.

013 [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:

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

and



SECTION D. Source Level Requirements

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

VI. WORK PRACTICE REQUIREMENTS.

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.

014 [25 Pa. Code §127.441]
Operating permit terms and conditions.
 Source ID P101 is a Compressor Turbine, natural-gas fired, Solar, Model Centaur 50, 5500 HP, 46.9 MMBtu/hr rated heat input, Installation date 1992, Turbine #1

A new turbine core which is designed to achieve NOx emission rates 25 ppmvd @ 15% O2 or less will be installed in Source ID P101 on or before July 31, 2024.

015 [25 Pa. Code §127.441]
Operating permit terms and conditions.
 (a) Source ID P101 is subject to 40 CFR Part 60, Subpart GG.
 (b) The permittee shall comply with all the applicable requirements specified in 40 CFR Part 60 Subpart GG Sections 60.330 through 60.335.

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

**SECTION D. Source Level Requirements**

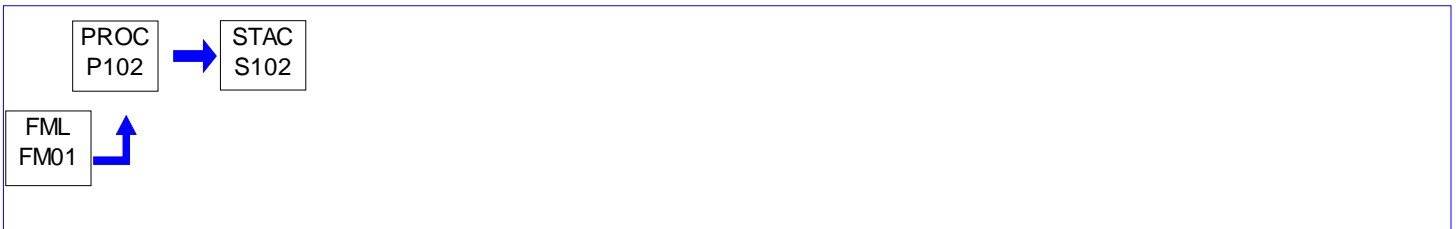
Source ID: P102

Source Name: #2 SOLAR CENTAUR TURBINE

Source Capacity/Throughput:

54.000 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.**

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

{Compliance with the requirement specified in this streamlined permit condition assures compliance with the provisions in 25 Pa. Code §129.112 and 40 CFR Part Subpart GG for nitrogen oxide (NO_x) emissions}

The permittee shall not cause, allow, or permit emissions of the following air pollutants from Source ID P102 in excess of the limitations listed below:

(a) carbon monoxide (CO) - 5.2 pounds per hour and 9.2 tons in any 12 consecutive month period.

(b) nonmethane hydrocarbons - 0.8 pounds per hour and 1.4 tons in any 12 consecutive month period.

(c) nitrogen oxides (NO_x) - 25 ppmvd @ 15% oxygen as of the final compliance date specified in the alternative compliance schedule detailed in paragraph (d) below.

(d) Pursuant to 25 Pa. Code §129.112(n), an alternative compliance schedule for the emission limitation specified in paragraph (c) has been established as follows:

(i) Source ID P102 is a Compressor Turbine, natural-gas fired, Solar, Model Centaur 50, 5500 HP, 46.9 MMBtu/hr rated heat input, Installation date 1992, Turbine #2 located at Transco Compressor Station 517 in Jackson Township, Columbia County.

(ii) The proposed air cleaning device includes a new turbine core which has been designed to reach an emission level of 25 ppmvd NO_x @ 15% O₂. Turbine control system upgrades and replacement systems include the addition of a burner acoustic monitor, a new gas fuel module, facility fuel monitoring, direct drive alternating current system upgrades, engine bleed valve and variable guide vane actuator upgrades, gas compressor anti-surge control upgrades, unit control balance of the plant, balance of plant control valves, among many other replacements, upgrades, and mechanical modifications.

(iii) The remaining phases of the installation of the proposed air cleaning devices are projected to be completed by the

**SECTION D. Source Level Requirements**

following dates:

- (A) Solar Controls Installation Planning Meeting and Installation Kick-Off.....6/21/2024
- (B) Source ID P102 Demo/Electrical.....7/31/2024
- (C) Source ID P102 Turbine Exchange.....7/31/2024
- (D) Source ID P102 Automation Changeout.....7/31/2024
- (E) Source ID P102 Startup.....7/31/2024
- (F) Source ID P102 Mechanical Completion.....7/31/2024
- (G) Source ID P102 In-Service Date.....7/31/2024
- (H) Solar Controls Installation Completed.....7/31/2024
- (I) Source ID P102 Stack Testing.....7/31/2024

(iv) Prior to the final compliance date specified in (d)(v) below, Source ID P102 shall comply with NOx emission limitations of 19.3 lb/hr, 34.0 tons in any 12 consecutive month period, and 150 ppmvd @ 15% Oxygen.

(v) The final compliance date for this alternative compliance schedule is July 31, 2024. The installation of the proposed turbine core, control system upgrades, and compliance demonstration/stack testing shall be complete by the final compliance date.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

005 [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 P102 any fuel which contains sulfur in excess of 0.8 percent by weight.

Operation Hours Restriction(s).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall not operate Source ID P102 more than 3,528 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

007 [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]

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

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]

(a) The permittee shall perform annual carbon monoxide (CO), and nitrogen oxides (NOx expressed as NO2) tests upon Source ID P102 using a portable exhaust gas analyzer approved by the Department.

(b) The EPA reference method testing required for Source ID P102 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.

**SECTION D. Source Level Requirements**

(c) The Department reserves the right to require stack tests in accordance with EPA reference methods should the data from the portable analyzer warrant.

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

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

(a) After a turbine core has been replaced, the permittee shall perform NO_x, CO, and NMNEHC emissions testing for the respective turbine compressor engine(s) within one-hundred twenty (120) days of completing the replacement. Stack testing shall be performed in accordance 25 Pa. Code Title 25, Chapter 139.

(b) On an approximate 5-year basis, no more than 60 months from the date of the previous test, the permittee shall perform EPA reference method stack tests upon Source ID P102 for carbon monoxide (CO), nitrogen oxides (NO_x), nonmethane hydrocarbons, and volatile organic compounds (VOCs).

(c) 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.

III. MONITORING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.95, 129.115 and 127.511]

The permittee shall keep records of the following information for Source ID P102:

- (1) The number of hours operated per month to verify compliance with the operational hour limitation in any 12 consecutive month period.
- (2) The custom fuel monitoring report.
- (3) The amount of fuel used per month.
- (4) Stack test reports on Source ID P102
- (5) The emission of carbon monoxide (CO), nitrogen oxides (NO_x), and nonmethane hydrocarbon on a monthly basis, and the supporting calculations used to verify compliance with the carbon monoxide (CO), nitrogen oxides (NO_x), and nonmethane hydrocarbon emission limitations of Source ID P102.
- (6) The portable exhaust gas analyzer reports.
- (7) The sulfur oxide and particulate matter emissions on a monthly basis, and the supporting calculations to verify compliance with the sulfur oxide and particulate matter emissions limitations of Source ID P102.

(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.****# 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 submit semi-annual reports to the Department on the following information for Source ID P102:

(1) The emission of carbon monoxide (CO), nitrogen oxides (NOx), and nonmethane hydrocarbon on a monthly basis, and the supporting calculations used to verify compliance with the carbon monoxide (CO), nitrogen oxides (NOx), and nonmethane hydrocarbon emission limitations for Source ID P102 in any 12 consecutive month period.

(2) The number of hours operated per month and the supporting calculations used to verify compliance with the operation hour limitation in any 12 consecutive month period.

(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).

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

The permittee shall submit the following information to the Department pertaining to the planned turbine core replacement for Source ID P102:

(a) The permittee shall provide thirty (30) days advance written notification to the Department of the planned turbine core replacement. The turbine core consists of the compressor, combustor, and power sections together.

(b) The written notice shall identify the location, the manufacturer, model, and serial number of the turbine, and the manufacturer, model, and serial number of the turbine core to be installed in the turbine and the air contaminant emission rates which will exist following the turbine core replacement, including NOx, CO and NMNEHC.

(c) The written notice shall also contain a certification from the permittee that any turbine core to be installed will be a lower emitting turbine core. The notice shall indicate whether the turbine core has been manufactured by either the existing turbine manufacturer or other manufacturer.

(d) The notice shall be accompanied by a vendor-provided guarantee of the achievable air contaminant emission rates of the new turbine core. If such a guarantee is not available, the notice shall include certification that the permittee attempted to obtain such guarantee and an explanation as to why the vendor will not provide such a guarantee.

(e) All certifications shall be signed by a responsible official and shall acknowledge that the certifying party is aware of the penalties for unsworn falsification to governmental authorities as established under 18 Pa.C.S. § 4904. The certification shall also state that based on information and belief formed after reasonable inquiry, that the information in the notice is true, accurate and complete.

013 [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 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:

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

and

**SECTION D. Source Level Requirements**

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

VI. WORK PRACTICE REQUIREMENTS.

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

Source ID P102 is a Compressor Turbine, natural-gas fired, Solar, Model Centaur 50H, 5500 HP, 46.9 MMBtu/hr rated heat input, Installation date 1992, Turbine #2

A new turbine core which is designed to achieve NOx emission rates 25 ppmvd @ 15% O2 or less will be installed in Source ID P102 on or before July 31, 2024.

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

(a) Source ID P102 is subject to 40 CFR Part 60, Subpart GG.

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

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

**SECTION D. Source Level Requirements**

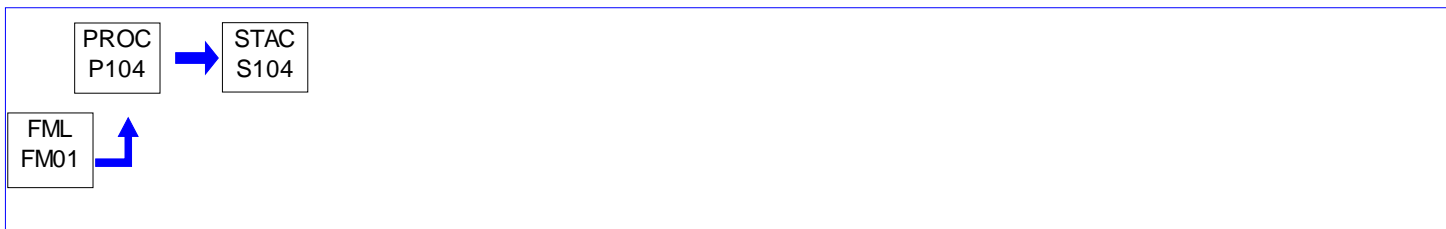
Source ID: P104

Source Name: STANDBY GENERATOR

Source Capacity/Throughput:

3.700 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 Sections 127.1 and 127.12]

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

- (a) carbon monoxide (CO) - 2.68 pounds per hour and 0.3 tons in any 12 consecutive month period,
- (b) nitrogen oxides (NO_x expressed as NO₂) - 2.68 pounds per hour and 0.3 tons in any 12 consecutive month period,
- (c) nonmethane hydrocarbons - 1.34 pounds per hour and 0.15 tons in any 12 consecutive month period.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

Operation Hours Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall not operate Source ID P104 more than 208 hours in any 12 consecutive month period unless operation in excess of this limitation is necessary for emergency electrical power, in which case Source ID P104 may be operated up to a maximum of 500 hours in any 12 consecutive month period.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR § 63.6640(f)]

**SECTION D. Source Level Requirements**

The permittee shall operate the emergency generator set included in Source ID P104 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 P104 in emergency situations, other than the 500 hours in any 12 consecutive month period limitation established pursuant to 25 Pa. Code §§ 127.1, 127.12 and 129.91.
- (2) The permittee may operate Source ID P104 for the purposes specified in paragraphs (3) and (4) for a combined maximum of 100 hours per calendar year.
- (3) Source ID P104 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 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 P104 beyond 100 hours per calendar year.
- (4) Source ID P104 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.

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

III. MONITORING REQUIREMENTS.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What are my monitoring, installation, operation, and maintenance requirements?

Pursuant to 40 CFR §63.6625(f), the reciprocating internal combustion engine included in Source ID P104 must be equipped with a non-resettable hour meter.

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 127.511 and 129.95]

The permittee shall keep records of the following information for Source ID P104:

- (1) The number of hours operated per month and the supporting calculations used to verify compliance with the operational hour limitation in any 12 consecutive month period.
 - (2) The emission of carbon monoxide (CO), nitrogen oxide (NOx), and nonmethane hydrocarbon on a monthly basis, and the supporting calculations used to verify compliance with the carbon monoxide (CO), nitrogen oxide (NOx), and nonmethane hydrocarbon emission limitations for Source ID P104 in any 12 consecutive month period.
- (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****# 009 [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 P104 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 NOx.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

[Additional authority for this permit condition is also derived from 40 CFR §63.6660]

(a) The permittee shall create records pertaining to the emergency generator engine included in Source ID P104 as specified in 40 CFR §§63.6655.

(b) The permittee shall keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.

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

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

(a) The permittee shall submit an annual report to the Department on the following information for Source ID P104:

(1) The emission of carbon monoxide (CO), nitrogen oxides (NOx), and nonmethane hydrocarbon on a monthly basis, and the supporting calculations used to verify compliance with the carbon monoxide (CO), nitrogen oxides (NOx) and nonmethane hydrocarbons emissions limitations for Source ID P104 in any 12 consecutive month period.

(2) The number of hours operated per month and calculations used to verify compliance with the operational hour limitation of 208 hours in any 12 consecutive month period. Justification and documentation must be submitted to the Department, if hours of operation exceed 208 hours, but less than 500 hours in any 12 consecutive month period.

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

012 [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.**

(a) The submission of all requests, reports, applications, submittals and other communications required by 40 CFR Sections 63.6580 through 63.6675 shall be made to both the Department of Environmental Protection and the Environmental Protection Agency. 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

(b) 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****VI. WORK PRACTICE REQUIREMENTS.****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.93]

The permittee shall maintain and operate Source ID P104 in accordance with manufacturers specifications, and good air pollution control practices.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my general requirements for complying with this subpart?**

Pursuant to 40 CFR §63.6605(b), at all times the permittee must operate and maintain Source ID P104, including associated monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

Pursuant to 40 CFR §63.6625(e)(3), the permittee shall operate and maintain the reciprocating internal combustion engine included in Source ID P104 according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

[Additional authority for this permit condition is also derived from 40 CFR §§63.6603(a) and 63.6625(j)]

The permittee shall conduct the following maintenance on the emergency generator engine of Source ID P104:

- (a) Change oil and filter every 500 hours of operation or annually, whichever comes first; unless the optional oil analysis program in 40 CFR §63.6625(j) indicates the oil does not need to be changed;
- (b) Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
- (c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

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

Source ID P104 is a natural gas fired Waukesha model F2895GL standby generator rated at 607 Hp (350 kW).

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

Source ID P104 is subject to 40 CFR Part 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The permittee shall comply with all applicable requirements of 40 CFR §§63.6580 through 63.6675.

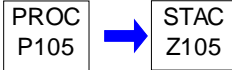
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P105

Source Name: PIPELINE LIQUIDS TANK (8400 GAL)

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall not permit the emission of volatile organic compounds (VOC) from Source ID P105 in excess of 12.9 pounds per day or 2.4 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

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

(1) The pipeline liquids throughput in gallons per month.

(2) The emission of volatile organic compounds on a monthly basis, and the supporting calculations used to verify compliance with the volatile organic compound emission limitation for Source ID P105 in any 12 consecutive month period.

(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.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

(a) The permittee shall submit an annual report to the Department with the emission of volatile organic compounds on a monthly basis, and the supporting calculations used to verify compliance with the volatile organic compound (VOC) emission limitations for Source ID P105 in any 12 consecutive month period.

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

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

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

VII. ADDITIONAL REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P105 is a 8400 gallon storage tank used to store pipeline liquids.

005 [25 Pa. Code §129.57]

Storage tanks less than or equal to 40,000 gallons capacity containing VOCs

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

Source ID P105 shall be equipped with pressure vacuum valves having a pressure setting of +0.7 psig and a vacuum setting of -0.3 psig and may not be vented to atmosphere other than through these valves (except during emergencies, repair situations, and internal tank inspections).

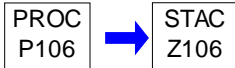
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P106

Source Name: PIPELINE VALVES AND 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 weekly 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.

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

V. REPORTING REQUIREMENTS.

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

Source ID P106 is the pipeline valves and flanges that are in natural gas or hydrocarbon liquid service at the facility.

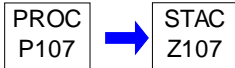
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**SECTION D. Source Level Requirements**

Source ID: P107

Source Name: 3 STORAGE TANKS (>2000 GALLONS)

Source Capacity/Throughput:

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

The permittee shall not store any liquid containing volatile organic compounds in any of the storage tanks of Source ID P107 which has a vapor pressure greater than 1.5 psia (10.5 kilopascals) under actual storage conditions unless pressure relief valves are installed which are maintained in good operating condition, and which are set to release at no less than 0.7 psig of pressure or 0.3 psig of vacuum in accordance with 25 Pa. Code Section 129.57.

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 liquid stored in each storage tank of Source ID P107.

(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.

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 P107 consists of three (3) liquid storage tanks used for storing liquids used at the facility which includes the following:

(a) One (1) 4200 gallon wastewater storage tank

**SECTION D. Source Level Requirements**

(b) One (1) 2115 gallon ethylene glycol storage tank

(c) One (1) 4200 gallon lubricating oil storage tank

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

**SECTION D. Source Level Requirements**

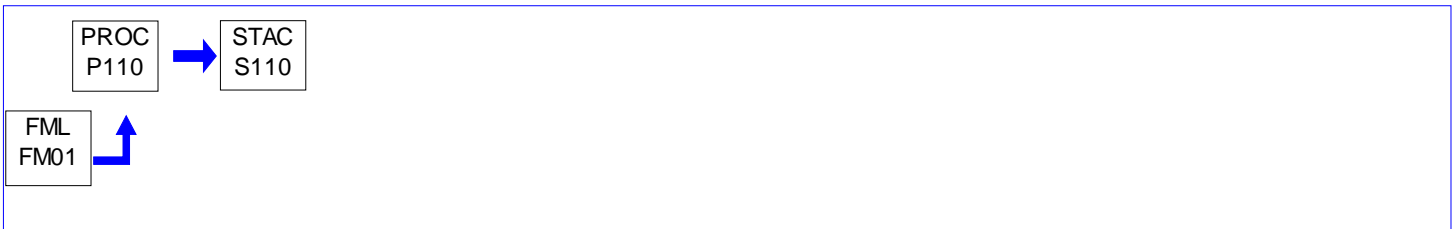
Source ID: P110

Source Name: SOLAR MARS TURBINE 4

Source Capacity/Throughput:

115.600 MCF/HR

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 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 P110 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 also derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with the requirement specified in this streamlined permit condition assures compliance with the provisions in 25 Pa. Code §129.112 and 40 CFR Part Subpart GG for nitrogen oxide (NO_x) emissions}

(a) The emission of carbon monoxide (CO) from Source ID P110 shall not at any time exceed 50 parts per million by volume, dry basis, corrected to 15% oxygen (O₂) or 14.80 pounds per hour, whichever is more restrictive. Furthermore, Source ID P110 shall not emit more than 23.7 tons of CO in any 12 consecutive month period.

(b) The emission of nitrogen oxides (NO_x expressed as NO₂) from Source ID P110 shall not at any time exceed 25 parts per million by volume, dry basis, corrected to 15% oxygen (O₂) or 12.15 pounds per hour, whichever is more restrictive. Furthermore, Source ID P110 shall not emit more than 19.45 tons of NO_x in any 12 consecutive month period.

(c) The emission of unburned hydrocarbons (UHCs) from Source ID P110 shall not at any time exceed 25 parts per million by volume, dry basis, corrected to 15% oxygen (O₂) or 4.238 pounds per hour, whichever is more restrictive. Furthermore, Source ID P110 shall not emit more than 6.8 tons of UHCs in any 12 consecutive month period.

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

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

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

005 [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 P110 pipeline quality natural gas which contains sulfur in excess of 0.8 percent by weight.

**SECTION D. Source Level Requirements****Operation Hours Restriction(s).****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall not operate Source ID P110 more than 3,200 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.**# 007 [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]

The permittee shall test the natural gas used in Source ID P110 for sulfur content. The test shall be performed in accordance with the custom fuel monitoring plan approved by EPA for the facility.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**(a) The permittee shall perform semi-annual nitrogen oxide (NO_x) emission tests on Source ID P110 using a portable exhaust gas analyzer which has been approved by the Department.

(b) The permittee shall perform annual carbon monoxide (CO) emission tests on Source ID P110 using a portable exhaust gas analyzer which has been approved by the Department.

(c) The Department reserves the right to require stack tests in accordance with EPA reference methods should the data from the portable analyzer warrant.

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

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

(a) On an approximate 5-year basis, no more than 60 months from the date of the previous test, the permittee shall perform EPA reference method stack tests upon Source ID P110 for carbon monoxide (CO), nitrogen oxides (NO_x), nonmethane hydrocarbons, and volatile organic compounds (VOCs).

(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 P110 is operating at full load and full speed.

III. MONITORING REQUIREMENTS.

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

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

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

(a) The permittee shall keep records of the following information for Source ID P110:

(1) The custom fuel monitoring report.

(2) The number of hours operated per month and calculation used to verify compliance with the hours of operation limitation in any 12 consecutive month period.

**SECTION D. Source Level Requirements**

(3) Stack test results and reports, and the portable exhaust gas analyzer reports.

(4) The emission of carbon monoxide (CO), nitrogen oxide (NOx), and unburned hydrocarbons (UHCs) on a monthly basis, and the supporting calculations on a monthly basis used to verify compliance with the carbon monoxide (CO), nitrogen oxide (NOx), and unburned hydrocarbons (UHCs) emission limitations for Source ID P110.

(5) The supporting calculations used to verify compliance with the sulfur oxide and particulate matter emissions limitations for Source ID P110.

(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.**# 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 submit semi-annual reports to the Department on the following information for Source ID P110:

(1) The emissions of carbon monoxide (CO), nitrogen oxide (NOx), and unburned hydrocarbons (UHCs) on a monthly basis, and the supporting calculations used to verify compliance with the carbon monoxide (CO), nitrogen oxide (NOx), and unburned hydrocarbons (UHCs) emission limitations in any 12 consecutive month period.

(2) The hours of operation per month and the supporting calculations used to verify compliance with the hours of operation limitation in any 12 consecutive month period.

(b) The semi-annual reports shall be submitted to the Department no later than March 1 (January 1 through December 31 of the previous year) and September 1 (July 1 of the previous year through June 30 of the concurrent year) for the previous 12 consecutive month period.

012 [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:

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

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

(a) Source ID P110 is subject to 40 CFR Part 60, Subpart GG.

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

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

Source ID P110 is a natural gas fired Solar Mars 100S rated at 15,000 horsepower, 121.4 MMBtu/hr rated heat input, which is equipped with dry SoLoNOx combustors. Turbine #4

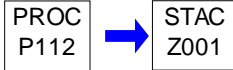
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P112

Source Name: PARTS CLEANING STATION

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 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**

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.
- (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

**SECTION D. Source Level Requirements**

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.

003 [25 Pa. Code §129.63]

Degreasing operations

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.

VII. ADDITIONAL REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P112 is a solvent based parts cleaning station, Snap-on Model #YDM-126 with a 30 gallon reservoir.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

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

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

**SECTION D. Source Level Requirements**

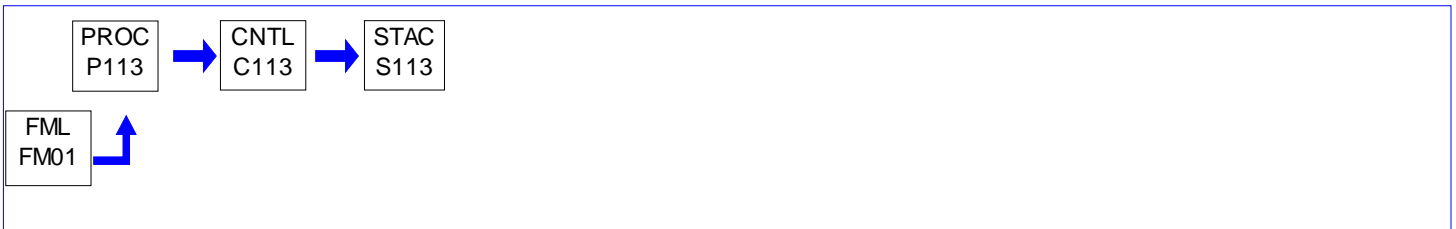
Source ID: P113

Source Name: 30000 BHP, SOLAR TITAN 250S TURBINE

Source Capacity/Throughput:

213.700 MCF/HR

Natural Gas

**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 C113, associated with Source ID P113, 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 P113 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 P113 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 -20°F (non-SoLoNO_x 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 P113 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 P113 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 -20°F (non-SoLoNO_x operation).
- ii) During startup and shutdown operations.

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, the annual emissions from the operation of the compression process incorporated into Source ID P113 shall not exceed any of the following in any 12 consecutive month period:

- (i) 52.1 tons of nitrogen oxides, expressed as NO₂;
- (ii) 7.8 tons of carbon monoxide;
- (iii) 1.8 tons of particulate matter (filterable only);

**SECTION D. Source Level Requirements**

- (iv) 6.3 tons of PM10 (filterable and condensable);
- (v) 6.3 tons of PM2.5 (filterable and condensable);
- (vi) 3.7 tons of volatile organic compounds (including formaldehyde);
- (vii) 0.3 tons of formaldehyde; and
- (viii) 1.2 tons of sulfur oxides, expressed as SO₂.

(b) For each month during the first eleven months of operation of Source ID P113, including the shakedown period, the sum of the emissions from the operation of the compression process incorporated into Source ID P113 from all preceding months of operation shall not exceed the limits included in part (a) of this condition.

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 Section 60.4320]

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P113 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 P113 is in excess of 15 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 -20°F (non-SoLoNOx operation).
- ii) During startup and shutdown operations.

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 P113 shall not emit into the outdoor atmosphere particulate matter (filterable only) from the natural gas-fired turbine associated with Source ID P113 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 P113 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 P113 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 P113 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 P113 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).

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 P113 shall not emit into the outdoor atmosphere formaldehyde from the natural gas-fired turbine associated with Source ID P113 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 -20°F (non-SoLoNOx operation).
- ii) During startup and shutdown operations.

**SECTION D. Source Level Requirements****# 011 [25 Pa. Code §129.112]****Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

Source ID P113 shall not emit into the outdoor atmosphere nitrogen oxides (NO_x, expressed as NO₂) from the natural gas-fired turbine associated with Source ID P113 in excess of 42 ppmvd NO_x @ 15% oxygen.

Fuel Restriction(s).**# 012 [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 P113.

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

Source ID P113 shall not combust natural gas in excess of 1872.65 million cubic feet in any 12 consecutive month period.

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

(a) The inlet temperature to the oxidation catalyst (ID C113) shall be maintained in the range of 750 to 1,000 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.

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

(a) The differential pressure across the oxidation catalyst (ID C113) 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.

II. TESTING REQUIREMENTS.**# 016 [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 P113, 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.

**SECTION D. Source Level Requirements****# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

(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 P113 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.

(b) 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 P113 on an approximate triennial basis to determine the volatile organic compounds and formaldehyde 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.

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

III. MONITORING REQUIREMENTS.**# 018 [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 P113 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.

019 [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 P113.

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 combustion turbine of Source ID P113 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 P113 is operating in or out of low-NO_x mode, i.e. SoLoNO_x mode.

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 P113 as required herein.

(b) The permittee may supplement the operating parameter data collected during EPA reference method testing with

**SECTION D. Source Level Requirements**

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 P113 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.

023 [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 C113) 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.

024 [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.

025 [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 P113.

IV. RECORDKEEPING REQUIREMENTS.**# 026 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

- i) The monthly air contaminant emissions from the operation of Source ID P113, 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 date and time of each startup and shutdown of the combustion turbine.
- v) The copy of the EPA reference method stack testing reports and the parameters data obtained during each performance

**SECTION D. Source Level Requirements**

test.

vi) Maintenance performed on Source ID P113.

(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.

027 [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 P113 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.

028 [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.

029 [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.

030 [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 for the inlet and outlet catalyst temperature and manufacturer's suggested low-NOx 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 P113.

(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.

V. REPORTING REQUIREMENTS.

031 [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 P113 on an annual basis:

(i) Periods when Source ID P113 is running and the operating parameters fall outside the respective ranges established in the current parameter monitoring plan;

(ii) Periods when Source ID P113 is running and the operating parameter averages are not available.

(iii) Periods when Source ID P113 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.

**SECTION D. Source Level Requirements**

(c) The annual reporting information shall cover the operation of Source ID P113 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.

032 [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 P113:

- (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 P113;
- (iv) Emission calculations for the quantity of vented gas.

(b) Source ID P113 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 P113 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.

033 [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.

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 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/>

VI. WORK PRACTICE REQUIREMENTS.**# 035 [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 P113 shall incorporate dry seals to control fugitive leaks from the source.

(b) The centrifugal compressor, along with the dry seals, associated with Source ID P113 shall be maintained in accordance with the manufacturer's recommended practices.

**SECTION D. Source Level Requirements****# 036 [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)]

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

The following definitions apply to the operation of Source ID P113:

(a) "Startup" means the ten minute period following the setting in operation of Source ID P113 for any purpose.

(b) "Shutdown" means the ten minute period preceding cessation of operation of Source ID P113 for any purpose.

038 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Source ID P113 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.

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

Source ID P113 consists of a natural gas compression process which includes a mechanical compressor coupled to a natural gas-fired, Solar Model Titan 250S combustion turbine with a heat input capacity at peak load and 20°F ambient site conditions equal to 218.0 MMBtu/hr. The emissions from Source ID P113 shall be controlled by an oxidation catalyst (Control Device ID C113).

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

**SECTION D. Source Level Requirements**

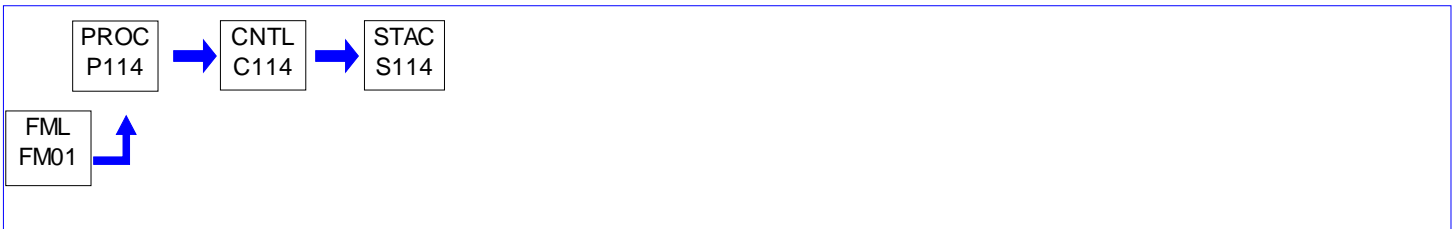
Source ID: P114

Source Name: SOLAR MARS 100S TURBINE

Source Capacity/Throughput:

129.400 MCF/HR

Natural Gas

**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 C114, associated with Source ID P114, 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 P114 shall not exceed any of the following in any 12 consecutive month period:

- (i) 31.8 tons of nitrogen oxides, expressed as NO₂;
- (ii) 23.6 tons of carbon monoxide;
- (iii) 1.1 tons of particulate matter (filterable only);
- (iv) 3.8 tons of PM₁₀ (filterable and condensable);
- (v) 3.8 tons of PM_{2.5} (filterable and condensable);
- (vi) 2.2 tons of volatile organic compounds (including formaldehyde);
- (vii) 0.2 tons of formaldehyde; and
- (viii) 0.7 tons of sulfur oxides, expressed as SO₂.

(b) For each month during the first eleven months of operation of Source ID P114, including the shakedown period, the sum of the emissions from the operation of the compression process incorporated into Source ID P114 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 P114 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 P114 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 P114 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 P114 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 Section 60.4320]

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID P114 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 P114 is in excess of 15 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.

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 P114 shall not emit into the outdoor atmosphere particulate matter (filterable only) from the natural gas-fired turbine associated with Source ID P114 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 P114 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 P114 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 P114 shall not emit into the outdoor atmosphere formaldehyde from the natural gas-fired turbine associated with Source ID P114 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, Source ID P114 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 P114 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****# 011 [25 Pa. Code §129.112]****Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

Source ID P114 shall not emit into the outdoor atmosphere nitrogen oxides (NO_x, expressed as NO₂) from the natural gas-fired turbine associated with Source ID P114 in excess of 42 ppmvd NO_x @ 15% oxygen.

Fuel Restriction(s).**# 012 [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 P114.

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

Source ID P114 shall not combust natural gas in excess of 1133.65 million cubic feet in any 12 consecutive month period.

II. TESTING REQUIREMENTS.**# 014 [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 P114, 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.

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

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

(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 P114 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.

(b) 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 P114 on an approximate triennial basis to determine the volatile organic compounds and formaldehyde 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.

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

**SECTION D. Source Level Requirements****III. MONITORING REQUIREMENTS.****# 016 [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 P114.

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 P114 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.**

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the combustion turbine of Source ID P114 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 P114 is operating in or out of low- NO_x mode, i.e. SoLoNO_x mode.

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 oxidation catalyst (ID C114) 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.

020 [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 P114 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.

021 [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.

022 [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]

**SECTION D. Source Level Requirements**

The company shall monitor the sulfur content of the natural gas used in Source ID P114 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.

023 [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 P114.

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

- (a) The inlet temperature to the oxidation catalyst (ID C114) shall be maintained in the range of 750 to 1,073 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.

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

- (a) The differential pressure across the oxidation catalyst (ID C114) 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.

IV. RECORDKEEPING REQUIREMENTS.**# 026 [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 P114 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.

027 [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.

**SECTION D. Source Level Requirements****# 028 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

029 [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 P114.

(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.

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

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

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

i) The monthly air contaminant emissions from the operation of Source ID P114, 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 date and time of each startup and shutdown of 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 P114.

(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.

V. REPORTING REQUIREMENTS.**# 031 [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 P114:

(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 P114;

(iv) Emission calculations for the quantity of vented gas.

(b) Source ID P114 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 P114 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.

032 [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 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/>

033 [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 P114 on an annual basis:

- (i) Periods when Source ID P114 is running and the operating parameters fall outside the respective ranges established in the current parameter monitoring plan;
- (ii) Periods when Source ID P114 is running and the operating parameter averages are not available.
- (iii) Periods when Source ID P114 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 P114 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.

034 [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.

VI. WORK PRACTICE REQUIREMENTS.**# 035 [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 P114 shall incorporate dry seals to control fugitive leaks from the source.

(b) The centrifugal compressor, along with the dry seals, associated with Source ID P114 shall be maintained in accordance with the manufacturer's recommended practices.

**SECTION D. Source Level Requirements****# 036 [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)]

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

Source ID P114 consists of a natural gas compression process which includes a mechanical compressor coupled to a natural gas-fired, Solar Model Mars 100S combustion turbine with a heat input capacity at peak load and 20°F ambient site conditions equal to 132.0 MMBtu/hr. The emissions from Source ID P114 shall be controlled by an oxidation catalyst (Control Device ID C114).

038 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Source ID P114 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.

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

The following definitions apply to the operation of Source ID P114:

(a) "Startup" means the ten minute period following the setting in operation of Source ID P114 for any purpose.

(b) "Shutdown" means the ten minute period preceding cessation of operation of Source ID P114 for any purpose.

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

**SECTION D. Source Level Requirements**

Source ID: P115

Source Name: 1380 BHP EMERGENCY GENERATOR, WAUKESHA L5794GSI

Source Capacity/Throughput:

**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 P115, 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 P115 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 streamlined permit condition is also derived from 40 CFR § 60.4233(e)]

The permittee shall operate the emergency stand-by power generating process incorporated into Source ID P115 in a manner such that the rate of emissions from the stationary reciprocating internal combustion engine (RICE) does not exceed the following limitations, after control:

- (i) Nitrogen Oxide - 1.20 grams per horsepower-hour
- (ii) Carbon Monoxide - 1.06 grams per horsepower-hour
- (iii) Volatile Organic Compound - 0.02 grams per horsepower-hour

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

Source ID P115 shall only be fired on pipeline-quality natural gas.

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

The permittee shall operate the stationary RICE associated with Source ID P115 no more than 500 hours in any 12 consecutive month period.

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(d)]

The permittee shall operate the emergency generator set included in Source ID P115 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.

**SECTION D. Source Level Requirements**

- (1) There is no time limit on the use of Source ID P115 in emergency situations, other than the 500 hours in any 12 consecutive month period limitation established pursuant to 25 Pa. Code §127.441.
- (2) The permittee may operate Source ID P115 for the purposes specified in paragraphs (3) and (4) for a combined maximum of 100 hours per calendar year.
- (3) Source ID P115 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 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 P115 beyond 100 hours per calendar year.
- (4) Source ID P115 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.

Control Device Efficiency Restriction(s).

**# 007 [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?**

Pursuant to 40 CFR §60.4243(g), an air-to-fuel ratio controller shall be used with the operation of the three-way catalyst (ID C115). The air-to-fuel controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

II. TESTING REQUIREMENTS.

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

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

Any required testing of Source ID P115 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.

**# 009 [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 NO_x, CO, and VOC emission limits for Source ID P115 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.

**# 010 [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 P115 with a non-resettable hour meter that logs the run-time of Source ID P115.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 011 [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 P115 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 NOx.

012 [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.**# 013 [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:

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

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/>

014 [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 P115 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 P115 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:

**SECTION D. Source Level 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.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The three-way catalyst (ID C115) associated with Source ID P115 shall be operated and maintained in accordance with good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The stationary RICE associated with Source ID P115 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.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The stationary RICE associated with Source ID P115 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(c), the permittee shall comply with Subpart ZZZZ for Source ID P115 by complying with the applicable requirements of 40 CFR Part 60 Subpart JJJJ.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source P115 consists of a GE Waukesha L5794GSI emergency, stand-by electrical generator powered by a 1380 brake-horsepower maximum natural-gas fired reciprocating internal combustion engine. Emissions from Source ID P115 are controlled by a 3-way catalyst (ID C115).

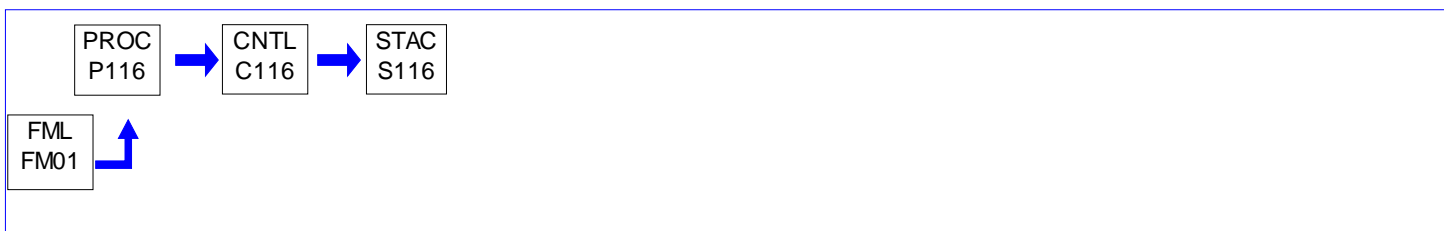
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: P116

Source Name: SER SOLAR MARS 100 TURBINE

Source Capacity/Throughput: 136.194 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 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, the annual emissions from the operation of the compression process incorporated into Source ID P116 shall not exceed any of the following in any 12 consecutive month period:

- (i) 32.9 tons of nitrogen oxides, expressed as NO₂;
- (ii) 23.7 tons of carbon monoxide;
- (iii) 1.1 tons of particulate matter (filterable only);
- (iv) 3.9 tons of PM₁₀ (filterable and condensable);
- (v) 3.9 tons of PM_{2.5} (filterable and condensable);
- (vi) 2.5 tons of volatile organic compounds (including formaldehyde);
- (vii) 0.2 tons of formaldehyde; and
- (viii) 0.7 tons of sulfur oxides, expressed as SO₂.

(b) For each month during the first eleven months of operation of Source ID P116, including the shakedown period, the sum of the emissions from the operation of the compression process incorporated into Source ID P116 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 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-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 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.

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 P116 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 P116 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 P116 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 P116 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 P116 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 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).

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 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).

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 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).

**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 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.

Fuel Restriction(s).**# 011 [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 P116.

(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 P116.

II. TESTING REQUIREMENTS.**# 012 [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 P116, 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.

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

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

(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 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.

(b) 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 compounds and formaldehyde 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.

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

**SECTION D. Source Level Requirements****III. MONITORING REQUIREMENTS.****# 014 [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- NOx mode, i.e. SoLoNOx mode.

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 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.

016 [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.

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

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

(b) A portable gas analyzer shall be used to satisfy the requirements of this condition utilizing three 20-minute test runs. The Department may alter the frequency 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 NOx and CO emissions using a portable analyzer, the permittee shall submit the results to the Department. The Department reserves the right to require performance tests in accordance with EPA reference test methods should the data from the portable analyzer warrant such tests.

018 [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.

**SECTION D. Source Level Requirements****# 019 [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.

020 [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.

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.**

(a) The inlet temperature to the oxidation catalyst (ID C116) 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.

023 [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.

IV. RECORDKEEPING REQUIREMENTS.**# 024 [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 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 date and time of each startup and shutdown of 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.

**SECTION D. Source Level Requirements****# 025 [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.

026 [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.

027 [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.

028 [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-NOx 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.

V. REPORTING REQUIREMENTS.**# 029 [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 each calendar year.

**SECTION D. Source Level Requirements****# 030 [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 an 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.

031 [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.

032 [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 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/>

VI. WORK PRACTICE REQUIREMENTS.**# 033 [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.

034 [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)]

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the permittee shall operate

**SECTION D. Source Level Requirements**

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.**# 035 [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.

036 [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, "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 136.2 MMBtu/hr. The emissions from Source ID P116 shall be controlled by an oxidation catalyst (Control Device ID C116).

037 [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 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) One (1) 940 gallon wastewater storage tank
- (b) One (1) 475 gallon lubricating oil storage tank
- (c) One (1) 540 gallon pipeline liquids sump tank
- (d) One (1) gasoline fired, portable welder, Honda, 16 HP
- (e) One (1) Diesel fired, portable air compressor, Deutz Diesel Corporation, Model P175WD, 2.64 GPH
- (f) One (1) Portable Generator, Gasoline Fired, Honda, 8 HP
- (g) Two (2) Acetylene Torches
- (h) Blowdown Emissions



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