



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

**STATE ONLY NATURAL MINOR OPERATING PERMIT**

Issue Date: April 30, 2024

Effective Date: April 30, 2024

Expiration Date: April 29, 2029

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

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

**State Only Permit No: 59-00008**

Natural Minor

Federal Tax Id - Plant Code: 74-1056569-6

**Owner Information**

Name: TENNESSEE GAS PIPELINE CO LLC

Mailing Address: 1001 LOUISIANA ST STE 1000  
HOUSTON, TX 77002-5089

**Plant Information**

Plant: TENNESSEE GAS PIPELINE CO/315 WELLSBORO

Location: 59 Tioga County 59906 Charleston Township

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

**Responsible Official**

Name: RONALD F MILLER

Title: DIRECTOR OPERATIONS

Phone: (724) 662 - 6422

Email: ron\_miller@kindermorgan.com

**Permit Contact Person**

Name: LYLE ZEKE ZERINGUE

Title: SR EHS ENGINEER

Phone: (713) 420 - 6294

Email: lyle\_zeringue@kindermorgan.com

[Signature] \_\_\_\_\_

*MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION*



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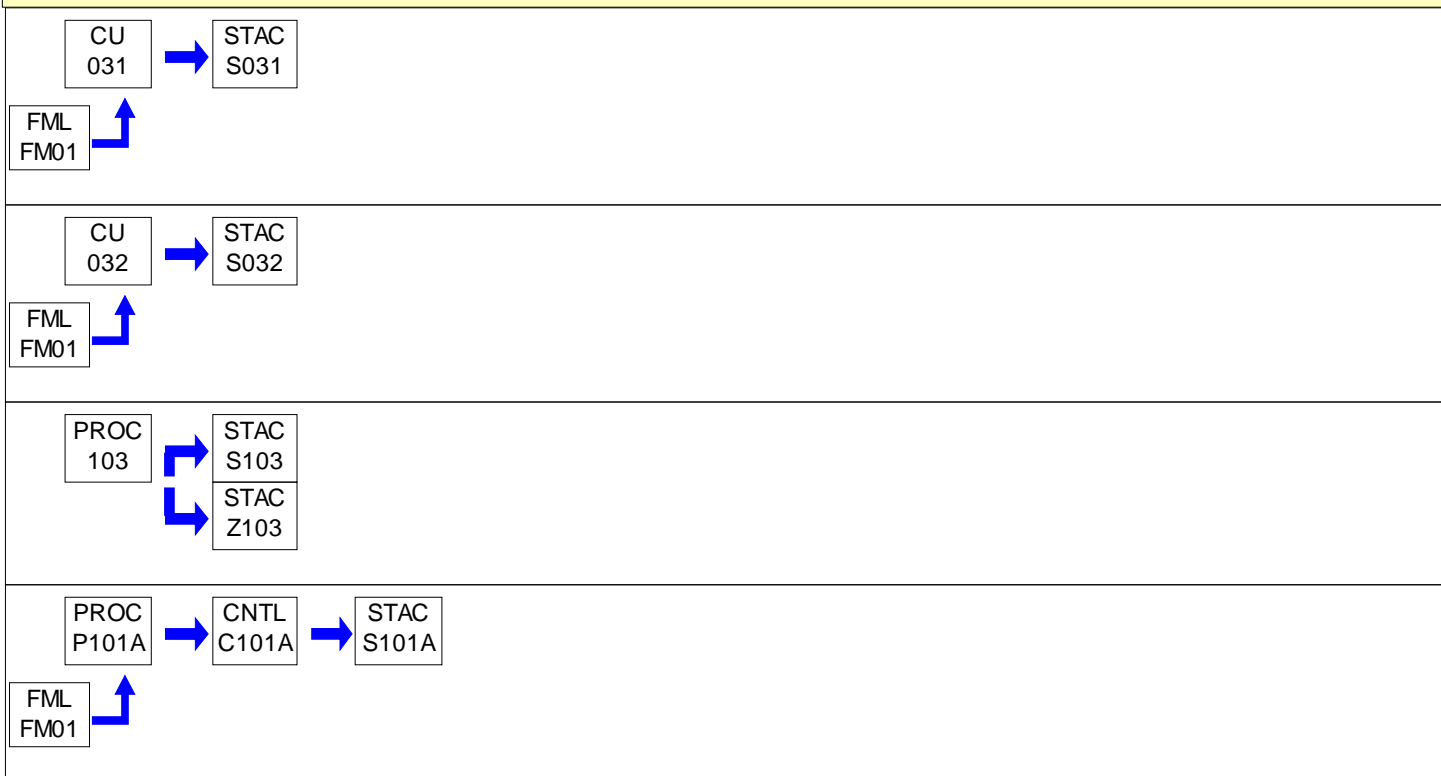
- F-I: Restrictions
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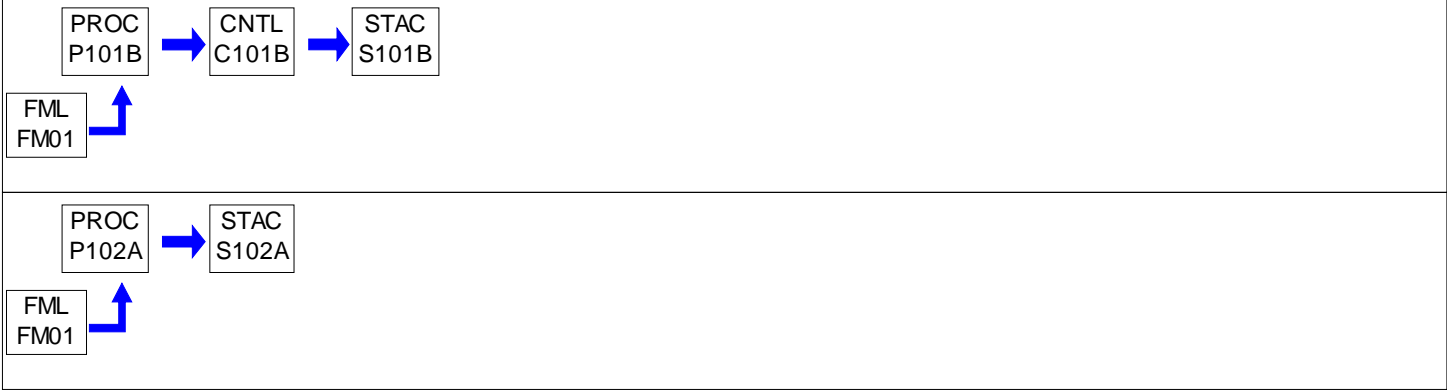
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	BUILDING BOILER		
032	2 SPACE HEATERS		
103	FUGITIVES		
P101A	SOLAR MARS 100-16000S NAT GAS COMP UNIT 2A (A2) SN MC11299	133.200 MCF/HR	Natural Gas
P101B	SOLAR MARS 100-16000S NAT GAS COMP UNIT 1B SN OHH23-M2101	138.900 MCF/HR	Natural Gas
P102A	637 BHP, CAT G3412, EMER GEN ENG, B-02, SN CTP03026	0.031 MMBTU/HR	Natural Gas
C101A	OXIDATION CATALYST		
C101B	OXIDATION CATALYST		
FM01	NATURAL GAS PIPELINE		
S031	BOILER STACK		
S032	SPACE HEATER STACK(S)		
S101A	COMBUSTION TURBINE STACK		
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**PERMIT MAPS**



### PERMIT MAPS



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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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



**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

(2) One ton of NO<sub>x</sub> from a single source during the term of the permit and 5 tons of NO<sub>x</sub> 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 PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

(g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

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

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

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

(1) Section 127.14 (relating to exemptions)

(2) Section 127.447 (relating to alternative operating scenarios)

(3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)

(4) Section 127.449 (relating to de minimis emission increases)

(5) Section 127.450 (relating to administrative operating permit amendments)

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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; and
- (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; and
  - (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 any source listed under #001 in Section C of this permit, 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 period.
- (2) Equal to or greater than 60% at any time.

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

The limitations of 25 Pa. Code Section 123.41 shall not apply to a visible emission in any of the following instances:

- (1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations, or
- (2) When the emission results from a source listed under #001 in Section C of this permit.

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

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

**SECTION C. Site Level Requirements**

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

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

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

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

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

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

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

(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.

**# 006 [25 Pa. Code §139.1]****Sampling facilities.**

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

**# 007 [25 Pa. Code §139.11]****General requirements.**

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

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

(1) A thorough source description, including a description of any air cleaning devices and the flue,

(2) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature and other conditions which may effect emissions from the process,

**SECTION C. Site Level Requirements**

- (3) The location of sampling ports,
- (4) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage of CO, CO<sub>2</sub>, O<sub>2</sub> and N<sub>2</sub>), 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.****# 008 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

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

(a) The permittee shall conduct monthly inspections of the facility in operation, during daylight hours. Additionally, the walk-around inspection conducted in each calendar month shall detect for:

- (1) the presence of an emission of visible air contaminants;
- (2) the presence of an emission of visible fugitive air contaminants; and
- (3) the presence of malodors at the boundaries of the facility's property.

(b) Any detected visible air contaminant, visible fugitive air contaminant or malodorous emissions that have the potential to exceed applicable regulatory requirements shall be reported to the manager of the facility, immediately.

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

The permittee shall maintain a logbook or electronic record of the facility walk-around inspections and shall record for each inspection at least, the name of the company representative that conducted the inspection, the date and time, the results (whether or not any any visible air contaminant, visible fugitive air contaminant or malodorous emissions are detected), and if applicable, the corrective action(s) taken to abate each or prevent future occurrences.

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

All information used to generate the records required in the conditions under Recordkeeping Requirements shall be kept available for minimum of five (5) years and shall be made available to the Department upon request.

**# 012 [25 Pa. Code §135.5]****Recordkeeping**

The permittee shall maintain 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.



**SECTION C. Site Level Requirements****V. REPORTING REQUIREMENTS.****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority is also derived from 25 Pa. Code section 127.442]

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

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

(c) The report shall describe the following:

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

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

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

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

(g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

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

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

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

(a) The submission of annual or semi-annual reports required by any applicable subpart as specified in 40 CFR Parts 60 and 63 shall be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted 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](http://www.epa.gov/cdx)). However, if the reporting form specific to an applicable subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address as listed, below.

**SECTION C. Site Level Requirements**

(b) The submission of all other notification, requests and other communications required under 40 CFR Parts 60 and 63 shall be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3\_Air\_Apps\_and\_Notices@epa.gov

and

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

**# 016 [25 Pa. Code §135.3]****Reporting**

(a) The permittee shall submit by March 1 of each year an Annual Air Information Management Systems (AIMS) Emissions report for the preceding calendar year. The report shall include information for all 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.

(b) The permittee may request an extension of time from the Department for the filing of an AIMS Emissions report, and the Department may grant the extension for reasonable cause.

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

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne for any source listed under #001 in Section C of this permit. 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) Removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

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

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

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

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

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

The position of Vice President – Operations for Tennessee Gas Pipeline Company, L.L.C., which is currently held by Mr. Ronald S. Bessette, also has Responsible Official (RO) signatory authority, based on the February 2021 Administrative Amendment application approved by the Department. The permittee shall provide letter or email notification to the Department upon a change in the Duly Authorized Representative (DAR) including signed and dated certification from the

**SECTION C. Site Level Requirements**

new DAR as applicable regarding any designated representative with RO signatory authority and responsibility for the overall operation of the facility.

**# 021 [25 Pa. Code §129.14]****Open burning operations**

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

**VIII. COMPLIANCE CERTIFICATION.**

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

**IX. COMPLIANCE SCHEDULE.**

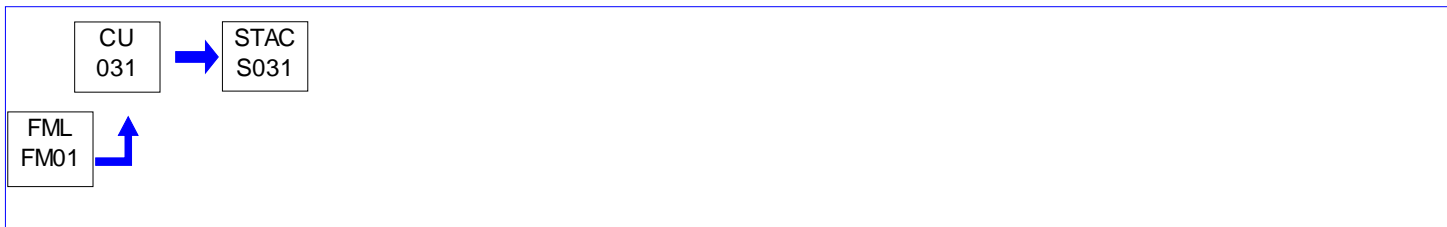
No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: BUILDING BOILER

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.22]

**Combustion units**

No person may permit the emission of sulfur oxides (SO<sub>x</sub>), expressed as SO<sub>2</sub> into the outdoor atmosphere from 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 only use natural gas as fuel to operate Source ID 031.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall generate and keep records of the fuel quality-based, potential SO<sub>2</sub> emission rate calculations for Source ID 031 in units of lb/mmBtu, to verify compliance with the applicable emission limitation as well as the supporting information.

(b) All information generated to comply with this recordkeeping requirement 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 (State Only General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

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

**SECTION D. Source Level Requirements**

The permittee shall operate and maintain Source ID 031 in accordance with the manufacturer's specifications and good air pollution control practices.

**VII. ADDITIONAL REQUIREMENTS.**

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

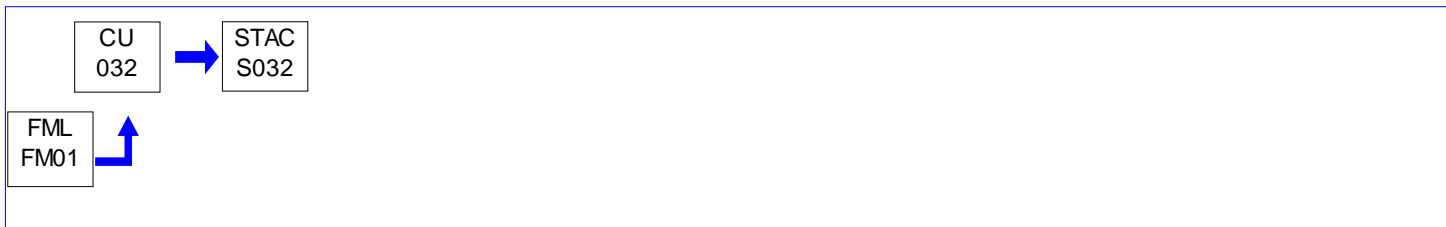
Source ID 031 is a natural gas-fired boiler that is identified as a Columbia Model #WL60 with a rated heat input equal to 0.84 mmBtu/hr.

**SECTION D. Source Level Requirements**

Source ID: 032

Source Name: 2 SPACE 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<sub>x</sub>), expressed as SO<sub>2</sub> into the outdoor atmosphere from any of the combustion Source ID 032 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

**Fuel Restriction(s).**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall only use natural gas as fuel to operate each of the space heaters of Source ID 032.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall generate and keep records of the fuel quality-based, potential SO<sub>2</sub> emission rate calculations for Source ID 031 in units of lb/mmBtu, to verify compliance with the applicable emission limitation as well as the supporting information.

(b) All information generated to used to comply with this recordkeeping requirement 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 (State Only General Requirements).

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

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

The permittee shall operate and maintain each heater of Source ID 032 in accordance with the manufacturer's specifications and good air pollution control practices.

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

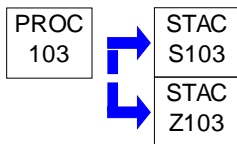
Source ID 032 consists of two (2), same make and model natural gas-fired space heaters, as follows: Trane Model #GTA-30A, with a rated heat input equal to 0.03 MMBtu/hr (each).

**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: FUGITIVES

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

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

- (a) The permittee shall perform leak detection and repair (LDAR) monitoring on all fugitive emissions components within the facility boundaries, 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%.
- (b) Fugitive emissions component means any component that has the potential to emit fugitive emissions of methane or VOC at the 315 Wellsboro Compressor Station, including but not limited to valves, connectors, pressure relief devices, open-ended lines, flanges, covers, closed vent systems that route emissions from a pneumatic pump, compressors, instruments, and meters, if applicable. Devices that vent as part of normal operations, such as natural gas-driven pneumatic controllers or natural gas-driven pumps, are not fugitive emissions components, insofar as the natural gas discharged from the device's vent is not considered a fugitive emission. Emissions originating from other than the vent such as an open-ended line, if applicable, would be considered fugitive emissions.
- (c) The permittee may request, in writing, the use of other leak detection monitoring devices, to be approved, in writing, by the Department. Such LDAR monitoring equipment shall be operated in accordance with manufacturer-recommended procedures and, where applicable, Method 21 specified in 40 CFR Part 60, Appendix A. Each LDAR monitoring device shall be calibrated before use on each day of its use by following the manufacturer-recommended procedures or the procedure set forth at Method 21 specified in 40 CFR Part 60, Appendix A.
- (d) Leak means:
- (i) Any emissions imaged by the optical gas instrument;
  - (ii) Indications of liquids dripping;
  - (iii) Indications by a sensor that a seal or barrier fluid system has failed;
  - (iv) Screening results using a gas leak detector exceed 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 fugitive emissions component at the 315 Wellsboro Compressor Station on a quarterly basis, at least.
- (g) Leaks shall be repaired no later than 15 calendar days after a leak is detected, unless the facility shuts down or determines that 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:



**SECTION D. Source Level Requirements**

- (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 permittee 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.
- (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.

**III. MONITORING REQUIREMENTS.**

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

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

- (a) The permittee shall maintain a report of each monthly AVO inspection and each quarterly LDAR monitoring, including date of each performance and the name of the representative performing the inspection/monitoring. Leaks, repair methods and repair delays shall be also recorded and maintained.
- (b) All information generated to satisfy this permit condition shall be kept for a minimum of 5 years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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



## SECTION D. Source Level Requirements

### VII. ADDITIONAL REQUIREMENTS.

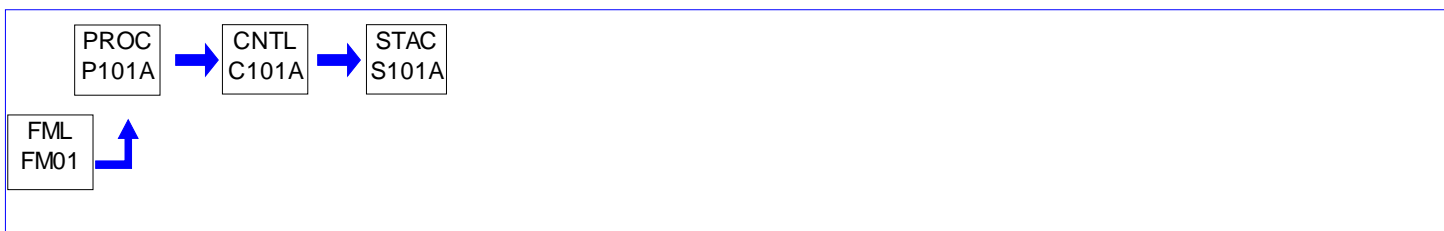
No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

**SECTION D. Source Level Requirements**

Source ID: P101A

Source Name: SOLAR MARS 100-16000S NAT GAS COMP UNIT 2A (A2) SN MC11299

Source Capacity/Throughput: 133.200 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 P101A in a manner such that the concentration of particulate matter in the effluent gas from S101A exceeds 0.04 grain per dry standard cubic foot.

**# 002 [25 Pa. Code §123.21]****General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from Source ID P101A in a manner such that the concentration of sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas from S101A 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 Sections 127.1 and 127.12, the total emissions of the following pollutants into the outdoor atmosphere from the operation of Source ID P101A as well as startups, shutdowns and sub-zero ambient temperature operations, shall not exceed any of the respective limitations, as follows:

(i) 32.2 tons in any 12 consecutive month period of nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>);

(ii) 38.3 tons in any 12 consecutive month period of carbon monoxide (CO);

(iii) 5.3 tons in any 12 consecutive month period of total particulate matter;

(iv) 5.3 tons in any 12 consecutive month period of PM-10 (filterable and condensable);

(v) 5.3 tons in any 12 consecutive month period of PM<sub>2.5</sub> (filterable and condensable);

(vi) 4.3 tons in any 12 consecutive month period of volatile organic compounds (VOCs, expressed as propane) and formaldehyde; and

(vii) 1.8 tons in any 12 consecutive month period of sulfur oxides (SO<sub>x</sub>, expressed as SO<sub>2</sub>).

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

[Authority for this permit condition is also derived from the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12]

(a) The permittee shall not permit the emission into the outdoor atmosphere of NO<sub>x</sub> from Source ID P101A in a manner such that the concentration of NO<sub>x</sub>, expressed as NO<sub>2</sub>, in the effluent gas from S101A exceeds 15.0 ppmvd, corrected to 15% oxygen. The emission limitation applies at all times that Source ID P101A is operating except for periods as provided below in (b) and (c) of this permit condition.

**SECTION D. Source Level Requirements**

(b) During periods of operation in which the ambient temperature is below 0 degrees Fahrenheit (sub-zero ambient temperature), the permittee shall not permit emission into the outdoor atmosphere of NOx from Source ID P101A in a manner such that the concentration of NOx, expressed as NO2, in the effluent gas from S101A exceeds 42.0 ppmvd, corrected to 15% oxygen.

(c) The permittee shall follow the manufacturer's recommended procedures for startup and shutdown of Source ID P101A.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the emission into the outdoor atmosphere of CO from Source ID P101A in a manner such that the concentration of CO in the effluent gas from S101A exceeds 2.0 ppmvd, corrected to 15% oxygen.

The above emission limitation applies at all times that Source ID P101A is operating except for periods of startup or shutdown, or when the combustion turbine incorporated into Source ID P101A operates in non-SoLoNOx mode. The combined total CO emissions when the combustion turbine operates in non-SoLoNOx mode, as permitted for maximum 125 hours in any 12 consecutive month period, shall not exceed 0.21 ton in any 12 consecutive month period.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the emission into the outdoor atmosphere of VOCs from Source ID P101A in a manner such that the total concentration of VOCs in the effluent gas from S101A exceeds 3.0 ppmvd, corrected to 15% oxygen.

The above emission limitation applies at all times that Source ID P101A is operating except for periods of startup or shutdown, or when the combustion turbine incorporated into Source ID P101A operates in non-SoLoNOx mode. The combined total VOC emissions when the combustion turbine operates in non-SoLoNOx mode, as permitted for maximum 125 hours in any 12 consecutive month period, shall not exceed 0.07 ton in any 12 consecutive month period.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the emission into the outdoor atmosphere of total particulate matter (filterable and condensable PM), as well as PM-10 and PM2.5, from Source ID P101A in a manner such that the rate of these pollutants from S101A exceeds 0.01 pound per million Btu (lb/MMBtu) of heat input to the combustion turbine associated with Source ID P101A.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the emission into the outdoor atmosphere of formaldehyde from Source ID P101A in a manner such that the rate of formaldehyde in the effluent gas from S101A exceeds 0.0027 pound per million Btu of heat input to the combustion turbine associated with Source ID P101A.

**Fuel Restriction(s).****# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority for this permit condition is also derived from the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12]

(a) The permittee shall only use natural gas as fuel to operate Source ID P101A.

(b) The total sulfur content of the natural gas shall not exceed 1.2 grain per 100 standard cubic feet (scf), or have a potential to produce an emission rate of SO2 in excess of 0.0034 lb/MMBtu of heat input to Source ID P101A.

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

[Authority for this permit condition is also derived from 40 CFR Section 60.4340]

(a) EPA reference method stack tests shall be conducted on Source ID P101A on an approximate biennial basis to determine NO<sub>x</sub> and CO emissions and verify compliance with the applicable emission restrictions, while the process is operating at maximum routine operating conditions (plus or minus 10% of 100% of peak load). Biennial stack tests shall occur no more than 24 months from the previous reference method stack test performance.

(b) EPA reference method stack tests shall be conducted on Source ID P101A on an approximate triennial basis to determine emissions of VOCs (expressed as propane) and verify compliance with the applicable emission restrictions, while the process is operating at maximum routine operating conditions. Triennial stack tests shall occur no more than 36 months following the previous reference method stack test performance.

(c) All EPA reference method stack tests shall be performed using the methods and procedures that are acceptable to the Department. The permittee shall also conduct stack (performance) tests according to the requirements under 40 CFR Section 60.4400, as applicable.

(d) The permittee may request a change to the test frequency required above, for VOCs if sufficient emissions and parametric data have been obtained to demonstrate an adequate margin of compliance. Additionally, the permittee shall establish oxidation catalyst maintenance parameters based on supporting information (e.g. vendor specifications, performance test data, etc.) to verify that the oxidation catalyst (ID C101A) is being continually operated and maintained by the permittee in a manner consistent with good air pollution control practices, as required herein.

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

(a) Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall operate instrumentation that continuously monitors at all times of operation whether Source ID P101A is operating in low-NO<sub>x</sub> (SoLoNO<sub>x</sub>) mode.

(b) The permittee shall monitor the ambient temperature and barometric pressure during operation of Source ID P101A, to generate and keep records supporting the allowable periods of operation in which Source ID P101A was not operating in SoLoNO<sub>x</sub> mode (sub-zero ambient temperature operation).

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall operate instrumentation that continuously monitors at all times of operation the inlet and outlet temperatures of the oxidation catalyst (ID C101A) and the differential pressure across it, and also collects and reduces the monitoring data to 4-hour rolling averages to verify operation is within the respective minimum and maximum, as follows:

Maximum inlet and outlet temperature of oxidation catalyst: 1,035 °F; and

Differential pressure across the catalyst: 0.6 through 4.2 inches H<sub>2</sub>O.

Any parameter excursion triggers inspection, corrective action, recordkeeping and reporting.

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

(a) In addition to the stack testing required above under Testing Requirements for Source ID P101A, every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the permittee shall perform periodic monitoring for NO<sub>x</sub> and CO emissions to verify compliance. If a Department-approved test has been performed within 45 days prior to the scheduled periodic monitoring, this test may be used in lieu of the scheduled periodic monitoring.

**SECTION D. Source Level Requirements**

(b) A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three 20-minute test runs. 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. The Department may alter the frequency of portable analyzer tests based on the results.

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

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

[Compliance with the requirements specified in this streamlined permit condition assures compliance with 40 CFR Sections 60.4360 through 60.4370]

The permittee shall use one of the following sources of information to demonstrate compliance with the fuel restriction:

(a) The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the total sulfur content for natural gas is 1.2 grains of sulfur or less per 100 standard cubic feet; or

(b) Representative fuel sampling data which show that the sulfur content of the natural gas does not exceed 1.2 grains of sulfur per 100 standard cubic feet. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of Appendix D to 40 CFR Part 75 is required.

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

The permittee shall continuously monitor the amount of fuel consumed by the combustion turbine associated with Source ID P101A, in units of standard cubic feet (scf).

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

The permittee shall monitor and keep records of the emissions of NO<sub>x</sub>, CO, total particulate matter, PM-10, PM2.5, VOCs, SO<sub>x</sub>, and formaldehyde from the combustion turbine associated with Source ID P101A, using the fuel consumption data, current representative fuel quality data, the hours of operation, the hours that the turbine is not operated in low-NO<sub>x</sub> mode and the quantity of startups and shutdowns to determine the total emissions in each calendar month in units of tons, in accordance with the Department approved emission calculations based on the testing, monitoring and/or vendor specifications emissions data, on a pollutant-by-pollutant basis, as well as the total emissions based on a 12-month rolling period to verify compliance with the annual emission limitations for Source ID P101A.

**# 017 [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 P101A has not deteriorated passed its useful life due to normal wear and tear, contamination, etc. An alarm shall sound if abnormal seal operation is detected.

**IV. RECORDKEEPING REQUIREMENTS.****# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall generate and keep records of the emission calculations including intermediate calculations for all operating scenarios (startups and shutdowns ("events"), low-NO<sub>x</sub> mode, and sub-zero ambient temperature) and the other information pertaining to the operation of Source ID P101A, as follows:

(a) The total emissions of NO<sub>x</sub>, CO, total particulate matter, PM-10, PM2.5, VOCs, SO<sub>x</sub>, and formaldehyde on a calendar month and 12-month rolling basis;

(b) The total amount of fuel consumed (scf) in any calendar month;

**SECTION D. Source Level Requirements**

- (c) The total hours of operation in SoLoNOx in any calendar month;
- (d) The total hours of operation not in SoLoNOx in any calendar month;
- (e) The total quantity of startups and shutdowns in any calendar month;
- (f) Copies of the reference method stack test and periodic monitoring reports;
- (g) All maintenance activities performed on Source ID P101A and ID C101A; and
- (h) All equipment alarms/faults triggered that resulted in excess emissions and the corrective action(s) taken to resume normal operation.

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

While Source ID P101A is in operation, the permittee shall generate and keep records of the average oxidation catalyst inlet and outlet temperatures and the average differential pressure across the oxidation catalyst (ID C101A) based on a 4-hour rolling period, to verify that these parameters are within, or equal to, the minimum and maximum indicator values as specified in III. Monitoring Requirements.

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

The permittee shall keep record of the manufacturer's recommended maintenance practices and specifications for each monitor which is required above under Monitoring Requirements for Source ID P101A, and shall generate and keep maintenance records to verify that the provisions are followed.

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

The permittee shall generate and keep records of the periodic inspections conducted on the centrifugal compressor's dry seal/performance indicator including the date of each inspection; person that conducted the inspection, and any corrective actions necessary as result an inspection or alarm.

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

The permittee shall generate and keep records of the current representative fuel quality data used to determine SO<sub>2</sub> emissions from Source ID P101A.

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

All information generated to satisfy recordkeeping requirements for Source ID P101A shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

The permittee shall generate and keep records of the total emissions of air contaminants into the outdoor atmosphere from each Source ID P101A compressor depressurization event (blowdown) on a calendar month and 12-month rolling basis, as well as the supporting information and calculations.

**V. REPORTING REQUIREMENTS.****# 025 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall submit annual reports of the the emission calculations including the intermediate calculations for all operating scenarios (startups and shutdowns ("events"), low-NOx mode, sub-zero ambient temperature) for NO<sub>x</sub>, SO<sub>x</sub>, VOCs (expressed as propane), formaldehyde, greenhouse gas (expressed as CO<sub>2</sub>e), total particulate matter, PM-10, and PM<sub>2.5</sub> from Source ID P101A on a calendar month and 12-month rolling basis.

**SECTION D. Source Level Requirements**

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

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

Within thirty (30) calendar days after the completion of each periodic monitoring performance for NOx and CO emissions from Source ID P101A, the permittee shall submit to the Department the information obtained from the portable analyzer stack test including the emissions data along with the calculations to verify compliance, in units of ppm, corrected to 15% oxygen. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

The permittee shall submit all applicable reports pertaining to the combustion turbine associated with Source ID P101A, as required in 40 CFR Part 60 Subpart KKKK. The reports shall be submitted to USEPA electronically using the subpart's Compliance and Emissions Data Reporting Interface (CEDRI), unless the subpart reporting form is not available in CEDRI at the time that the report is due in which case the report shall be submitted to the USEPA e-mail address listed, below. Copies shall be also submitted to the Department of Environmental Protection.

R3\_Air\_Apps\_and\_Notices@epa.gov

and

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

**VI. WORK PRACTICE REQUIREMENTS.****# 028 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Pursuant to best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall operate Source ID P101A in SoLoNOx mode at all times of operation except during a startup, shutdown, or period in which the ambient temperature is less than 0 degrees Fahrenheit (sub-zero ambient temperature).

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

Pursuant to best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall follow the manufacturer's recommended procedures for startup and shutdown of Source ID P101A.

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

[Additional authority for this permit condition is also derived from 40 CFR Sections 60.4333]

Pursuant to best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall operate and maintain Source ID P101A and its controls in a manner consistent with good air pollution control practices for minimizing emissions at all times of operation including startups, shutdowns, and malfunctions.

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

Pursuant to best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall operate and maintain the oxidation catalyst (ID C101A) per the manufacturer's recommended specifications and procedures.

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



**SECTION D. Source Level Requirements**

Pursuant to best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the permittee shall perform all calibrations on the monitors for the inlet and outlet oxidation catalyst temperatures and the differential pressure across ID C101A, in accordance with the manufacturer's recommended specifications and procedures.

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

The following definitions apply to the operation of Source ID P101A:

- (a) "Startup" means the ten minute period following the setting in operation of Source ID P101A for any purpose.
- (b) "Shutdown" means the ten minute period preceding cessation of operation of Source ID P101A for any purpose

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

[Authority for this permit condition is also derived from the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12]

- (a) Source ID P101A is a natural gas compression process/Solar Mars 100 gas turbine compressor set (Model #100-16000S), consisting of a combustion turbine and a centrifugal compressor. The process is rated at ISO conditions to have power output rating equal to 15,900 hp and a heat input rating approximately equal to 117.6 million Btu per hour.
- (b) The combustion turbine associated Source ID P101A shall be equipped with lean premix combustion technology and an automated air-fuel ratio controller to control emissions of NO<sub>x</sub>, CO, and VOCs. In addition, the combustion turbine's exhaust shall be equipped with the oxidation catalyst as an add-on air cleaning device for controlling emissions of CO, VOCs including formaldehyde.

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

The combustion turbine associated with Source ID P101A is subject to the Standards of Performance for Stationary Combustion Turbines as codified in 40 CFR Part 60 Subpart KKKK. The permittee shall comply with all applicable requirements pertaining to this source, as specified in 40 CFR Sections 60.4300 through 60.4420.

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

Based on the 2019 RFD application submitted and later approved by the Department, Source ID P101A including the 15-ppm Mars 100 combustion turbine core replacement/package (S/N MC 11299) shall comply with all terms and conditions of State Only Permit No: 59-00008 herein. The original date of construction of Source ID P101A is 2011.

**SECTION D. Source Level Requirements**

Source ID: P101B

Source Name: SOLAR MARS 100-16000S NAT GAS COMP UNIT 1B SN OHH23-M2101

Source Capacity/Throughput: 138.900 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 P101B in a manner such that the concentration of particulate matter in the effluent gas from S101B exceeds 0.04 grain per dry standard cubic foot.

**# 002 [25 Pa. Code §123.21]****General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from Source ID P101B in a manner such that the concentration of sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas from S101B exceeds 500 parts per million, by volume, dry basis.

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

(a) Pursuant to 25 Pa. Code Sections 127.1 and 127.12, as well as 25 Pa. Code Section 127.444, the total emissions of the following pollutants into the outdoor atmosphere from the operation of Source ID P101B as well as startups, shutdowns and sub-zero ambient temperature operations, shall not exceed any of the respective limitations, as follows:

(i) 18.8 tons in any 12 consecutive month period of nitrogen oxides (NO<sub>x</sub> expressed as NO<sub>2</sub>);

(ii) 37.3 tons in any 12 consecutive month period of carbon monoxide

(iii) 5.7 tons in any 12 consecutive month period of total particulate matter

(iv) 5.7 tons in any 12 consecutive month period of PM-10 (filterable and condensable);

(v) 5.7 tons in any 12 consecutive month period of PM<sub>2.5</sub> (filterable and condensable);

(vi) 5.3 tons in any 12 consecutive month period of volatile organic compounds (VOCs, expressed as propane) and formaldehyde;

(vii) 1.4 tons in any 12 consecutive month period of formaldehyde; and

(viii) 7.7 tons in any 12 consecutive month period of sulfur oxides (SO<sub>x</sub>, expressed as SO<sub>2</sub>)

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

[Authority for this permit condition in paragraph (a) below is also derived from the requirements of 25 Pa. Code Section 127.444]

(a) The permittee shall not permit the emission into the outdoor atmosphere of NO<sub>x</sub> from Source ID P101B in a manner such that the concentration of NO<sub>x</sub>, expressed as NO<sub>2</sub>, in the effluent gas from S101B exceeds 9.0 ppmvd, corrected to

**SECTION D. Source Level Requirements**

15% oxygen. The emission limitation applies at all times that Source ID P101B is operating except for periods as provided below in (b) and (c) of this permit condition.

[Authority for these permit conditions in paragraphs (b) and (c) below is also derived from the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12]

(b) During periods of operation in which the ambient temperature is below 0 degrees Fahrenheit (sub-zero ambient temperature), the permittee shall not permit emission into the outdoor atmosphere of NO<sub>x</sub> from Source ID P101B in a manner such that the concentration of NO<sub>x</sub>, expressed as NO<sub>2</sub>, in the effluent gas from S101B exceeds 42.0 ppmvd, corrected to 15% oxygen.

(c) The permittee shall follow the manufacturer's recommended procedures for startup and shutdown of Source ID P101B.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the emission into the outdoor atmosphere of CO from Source ID P101B in a manner such that the concentration of CO in the effluent gas from S101B exceeds 2.0 ppmvd, corrected to 15% oxygen.

The above emission limitation applies at all times that Source ID P101B is operating except for periods of startup or shutdown, or when the combustion turbine incorporated into Source ID P101B operates in non-SoLoNO<sub>x</sub> mode. The combined total CO emissions when the combustion turbine operates in non-SoLoNO<sub>x</sub> mode, as permitted for maximum 125 hours in any 12 consecutive month period, shall not exceed 0.21 ton in any 12 consecutive month period.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the emission into the outdoor atmosphere of VOCs from Source ID P101B in a manner such that the total concentration of VOCs in the effluent gas from S101B exceeds 3.0 ppmvd, corrected to 15% oxygen.

The above emission limitation applies at all times that Source ID P101B is operating except for periods of startup or shutdown, or when the combustion turbine incorporated into Source ID P101B operates in non-SoLoNO<sub>x</sub> mode. The combined total VOC emissions when the combustion turbine operates in non-SoLoNO<sub>x</sub> mode, as permitted for maximum 125 hours in any 12 consecutive month period, shall not exceed 0.07 ton in any 12 consecutive month period.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the emission into the outdoor atmosphere of total particulate matter (filterable and condensable PM), as well as PM<sub>10</sub> and PM<sub>2.5</sub>, from Source ID P101B in a manner such that the rate of these pollutants from S101B exceeds 0.01 pound per million Btu (lb/mmBtu) of heat input to the combustion turbine associated with Source ID P101B.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not permit the emission into the outdoor atmosphere of formaldehyde from Source ID P101B in a manner such that the rate of formaldehyde in the effluent gas from S101B exceeds 0.0027 pound per million Btu of heat input to the combustion turbine associated with Source ID P101B.

**Fuel Restriction(s).****# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority for this permit condition is also derived from the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall only use pipeline natural gas as fuel to operate Source ID P101B.

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

[Authority for this permit condition is also derived from 40 CFR Section 60.4340]

(a) EPA reference method stack tests shall be conducted on Source ID P101B on an approximate biennial basis to determine NO<sub>x</sub> and CO emissions and verify compliance with the applicable emission restrictions, while the process is operating at maximum routine operating conditions (plus or minus 10% of 100% of peak load). Biennial stack tests shall occur no more than 24 months from the previous reference method stack test performance.

(b) EPA reference method stack tests shall be conducted on Source ID P101B on an approximate triennial basis to determine emissions of VOCs (expressed as propane) and verify compliance with the applicable emission restrictions, while the process is operating at maximum routine operating conditions. Triennial stack tests shall occur no more than 36 months following the previous reference method stack test performance.

(c) All EPA reference method stack tests shall be performed using the methods and procedures that are acceptable to the Department. The permittee shall also conduct stack (performance) tests according to the requirements under 40 CFR Section 60.4400, as applicable.

(d) The permittee may request a change to the test frequency required above, for VOCs if sufficient emissions and parametric data have been obtained to demonstrate an adequate margin of compliance. Additionally, the permittee shall establish oxidation catalyst maintenance parameters based on supporting information (e.g. vendor specifications, performance test data, etc.) to verify that the oxidation catalyst (ID C101B) is being continually operated and maintained by the permittee in a manner consistent with good air pollution control practices, as required herein.

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

(a) In addition to the stack testing required above under Testing Requirements for Source ID P101B, every 2,500 hours of operation and no sooner than forty-five (45) calendar days from the previous test, the permittee shall perform periodic monitoring for NO<sub>x</sub> and CO emissions to verify compliance. If a Department-approved test has been performed within 45 days prior to the scheduled periodic monitoring, this test may be used in lieu of the scheduled periodic monitoring.

(b) A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three 20-minute test runs. 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. The Department may alter the frequency of portable analyzer tests based on the results.

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

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

[Compliance with the requirements specified in this streamlined permit condition assures compliance with 40 CFR Sections 60.4360 through 60.4370]

The permittee shall use one of the following sources of information to demonstrate compliance with the fuel restriction:

(a) The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying the maximum total sulfur content of the pipeline natural gas used in Source ID P101B, in units of grains of sulfur or less per 100 standard cubic feet; or

(b) Representative fuel sampling data which show the total sulfur content of the pipeline natural gas used in Source ID P101B, in units of grains of sulfur or less per 100 standard cubic feet. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of Appendix D to 40 CFR Part 75 is required.

**SECTION D. Source Level Requirements****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall continuously monitor the amount of fuel consumed by the combustion turbine associated with Source ID P101B, in units of standard cubic feet (scf).

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

The permittee shall monitor and keep records of the emissions of NO<sub>x</sub>, CO, total particulate matter, PM-10, PM<sub>2.5</sub>, VOCs, SO<sub>x</sub>, and formaldehyde from the combustion turbine associated with Source ID P101B, using the fuel consumption data, current representative fuel quality data, the hours of operation, the hours that the turbine is not operated in low-NO<sub>x</sub> mode and the quantity of startups and shutdowns to determine the total emissions in each calendar month in units of tons, in accordance with the Department approved emission calculations based on the testing, monitoring and/or vendor specifications emissions data, on a pollutant-by-pollutant basis, as well as the total emissions based on a 12-month rolling period to verify compliance with the annual emission limitations for Source ID P101B.

**# 015 [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 P101B has not deteriorated passed its useful life due to normal wear and tear, contamination, etc. An alarm shall sound if abnormal seal operation is detected.

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

(a) Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall operate instrumentation that continuously monitors at all times of operation whether Source ID P101B is operating in low-NO<sub>x</sub> (SoLoNO<sub>x</sub>) mode.

(b) The permittee shall monitor the ambient temperature and barometric pressure during operation of Source ID P101B, to generate and keep records supporting the allowable periods of operation in which Source ID P101B was not operating in SoLoNO<sub>x</sub> mode (sub-zero ambient temperature operation).

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall operate instrumentation that continuously monitors at all times of operation the inlet and outlet temperatures of the oxidation catalyst (ID C101B) and the differential pressure across it, and also collects and reduces the monitoring data to 4-hour rolling averages to verify operation is within the respective minimum and maximum, as follows:

Maximum inlet and outlet temperature of oxidation catalyst: 1,035 °F; and

Differential pressure across the catalyst: 1.7 through 5.3 inches H<sub>2</sub>O.

Any parameter excursion triggers inspection, corrective action, recorkeeping and reporting.

**IV. RECORDKEEPING REQUIREMENTS.****# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall generate and keep records of the current representative fuel quality data used to determine SO<sub>2</sub> emissions from Source ID P101B.

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

All information generated to satisfy recordkeeping requirements for Source ID P101A 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****# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall generate and keep records of the total emissions of air contaminants into the outdoor atmosphere from each Source ID P101B compressor depressurization event (blowdown) on a calendar month and 12-month rolling basis, as well as the supporting information and calculations.

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

The permittee shall generate and keep records of the emission calculations including intermediate calculations for all operating scenarios (startups and shutdowns ("events"), low-NOx mode, and sub-zero ambient temperature) and the other information pertaining to the operation of Source ID P101B, as follows:

- (a) The total emissions of NOx, CO, total particulate matter, PM-10, PM2.5, VOCs, SOx, and formaldehyde on a calendar month and 12-month rolling basis;
- (b) The total amount of fuel consumed (scf) in any calendar month;
- (c) The total hours of operation in SoLoNOx in any calendar month;
- (d) The total hours of operation not in SoLoNOx in any calendar month;
- (e) The total quantity of startups and shutdowns in any calendar month;
- (f) Copies of the reference method stack test and periodic monitoring reports;
- (g) All maintenance activities performed on Source ID P101B and ID C101B; and
- (h) All equipment alarms/faults triggered that resulted in excess emissions and the corrective action(s) taken to resume normal operation.

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

While Source ID P101B is in operation, the permittee shall generate and keep records of the average oxidation catalyst inlet and outlet temperatures and the average differential pressure across the oxidation catalyst (ID C101B) based on a 4-hour rolling period, to verify that these parameters are within, or equal to, the minimum and maximum indicator values as specified in III. Monitoring Requirements.

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

The permittee shall keep record of the manufacturer's recommended maintenance practices and specifications for each monitor which is required above under Monitoring Requirements for Source ID P101B, and shall generate and keep maintenance records to verify that the provisions are followed.

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

The permittee shall generate and keep records of the periodic inspections conducted on the centrifugal compressor's dry seal/performance indicator including the date of each inspection; person that conducted the inspection, and any corrective actions necessary as result an inspection or alarm.

**V. REPORTING REQUIREMENTS.****# 025 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Within thirty (30) calendar days after the completion of each periodic monitoring performance for NOx and CO emissions from Source ID P101B, the permittee shall submit to the Department the information obtained from the portable analyzer stack test including the emissions data along with the calculations to verify compliance, in units of ppm, corrected to 15%

**SECTION D. Source Level Requirements**

oxygen. The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

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

The permittee shall submit all applicable reports pertaining to the combustion turbine associated with Source ID P101B, as required in 40 CFR Part 60 Subpart KKKK. The reports shall be submitted to USEPA electronically using the subpart's Compliance and Emissions Data Reporting Interface (CEDRI), unless the subpart reporting form is not available in CEDRI at the time that the report is due in which case the report shall be submitted to the USEPA e-mail address listed, below. Copies shall be also submitted to the Department of Environmental Protection.

R3\_Air\_Apps\_and\_Notices@epa.gov

and

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

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

(a) The permittee shall submit annual reports of the the emission calculations including the intermediate calculations for all operating scenarios (startups and shutdowns ("events"), low-NOx mode, sub-zero ambient temperature) for NOx, SOx, VOCs (expressed as propane), formaldehyde, greenhouse gas (expressed as CO2e), total particulate matter, PM-10, and PM2.5 from Source ID P101B on a calendar month and 12-month rolling basis.

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

**VI. WORK PRACTICE REQUIREMENTS.****# 028 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

For the periods in which the centrifugal compressor associated with Source ID P101B is required to be depressurized, as approved by the Department, the automated surge control systems shall be employed to protect the compressor from the possibility of surge and also equalize the pressure between the discharge and suction lines during the process shutdown.

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

All startups of Source ID P101B shall be performed with the electric starter motor and the startup equipment for Source ID P101B shall be limited to this motor only (i.e. as opposed to the design including a electric starter motor with a backup start-up capability that has the potential for leaks, such as, a backup startup capability using compressed natural gas).

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

Pursuant to best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall operate Source ID P101B in SoLoNOx mode at all times of operation except during a startup, shutdown, or period in which the ambient temperature is less than 0 degrees Fahrenheit (sub-zero ambient temperature).

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

Pursuant to best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall follow the manufacturer's recommended procedures for startup and shutdown of Source ID P101B.

**SECTION D. Source Level Requirements****# 032 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR Sections 60.4333]

Pursuant to best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall operate and maintain Source ID P101B and its controls in a manner consistent with good air pollution control practices for minimizing emissions at all times of operation including startups, shutdowns, and malfunctions.

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

Pursuant to best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall operate and maintain the oxidation catalyst (ID C101B) per the manufacturer's recommended specifications and procedures.

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

Pursuant to best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the permittee shall perform all calibrations on the monitors for the inlet and outlet oxidation catalyst temperatures and the differential pressure across ID C101B, in accordance with the manufacturer's recommended specifications and procedures.

**VII. ADDITIONAL REQUIREMENTS.****# 035 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Authority for this permit condition is also derived from the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12]

(a) Source ID P101B is a natural gas compression process/Solar Mars 100 gas turbine compressor set (Model #100-1600S), consisting of a combustion turbine and a centrifugal compressor. The process is rated at ISO conditions to have power output rating equal to 15,900 hp and a heat input rating approximately equal to 117.6 million Btu per hour.

(b) The combustion turbine associated Source ID P101B shall be equipped with lean premix combustion technology and an automated air-fuel ratio controller to control emissions of NO<sub>x</sub>, CO, and VOCs. In addition, the combustion turbine exhaust shall be equipped with the oxidation catalyst as an add-on air cleaning device for controlling emissions of CO, VOCs including formaldehyde.

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

The combustion turbine associated with Source ID P101B is subject to the Standards of Performance for Stationary Combustion Turbines as codified in 40 CFR Part 60 Subpart KKKK. The permittee shall comply with all applicable requirements pertaining to this source, as specified in 40 CFR Sections 60.4300 through 60.4420.

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

The following definitions apply to the operation of Source ID P101B:

(a) "Startup" means the ten minute period following the setting in operation of Source ID P101B for any purpose.

(b) "Shutdown" means the ten minute period preceding cessation of operation of Source ID P101B for any purpose

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

The centrifugal compressor associated with Source ID P101B shall incorporate dry seals to control fugitive leaks from the source.

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

Based on the 2023 RFD application submitted and later approved by the Department, Source ID P101B including the 9-ppm Mars 100 combustion turbine core replacement/package installed October 2023 (S/N OHH23-M2101) shall comply with all terms and conditions of State Only Permit No: 59-00008 herein. The original date of construction of Source ID P101B unit





**SECTION D. Source Level Requirements**

1B(B1) is 2014.

**SECTION D. Source Level Requirements**

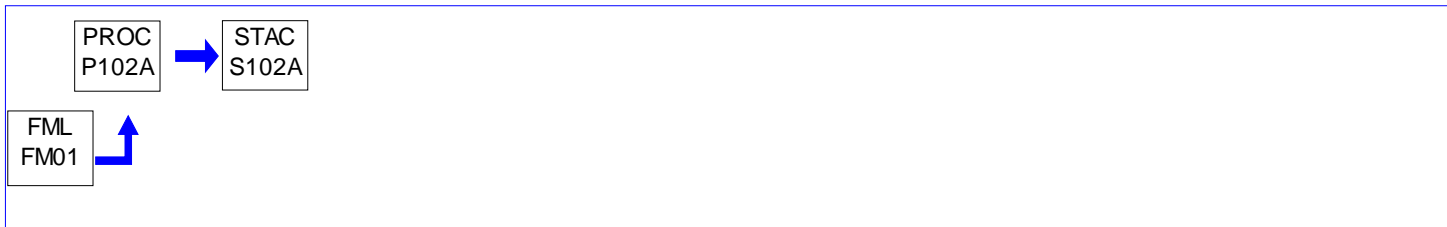
Source ID: P102A

Source Name: 637 BHP, CAT G3412, EMER GEN ENG, B-02, SN CTP03026

Source Capacity/Throughput:

0.031 MMBTU/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 P102A in a manner that the concentration of particulate matter in the effluent gas from S102A exceeds 0.04 grain per dry standard cubic foot

**# 002 [25 Pa. Code §123.21]****General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from Source ID P102A in a manner such that the concentration of sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas from S102A 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 40 CFR Section 60.4233(e)]

The permittee shall not permit emissions into the outdoor atmosphere of NO<sub>x</sub>, CO and VOCs from Source ID P102A in a manner such that each emission rate is in excess of the following restriction:

(i) Nitrogen Oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) - 2.0 grams per horsepower-hour

(ii) Carbon Monoxide (CO) - 4.0 grams per horsepower-hour

(iii) Volatile Organic Compounds (VOCs, expressed as propane) - 1.0 gram per horsepower-hour

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

The permittee shall only use pipeline-quality natural gas as fuel to operate Source ID P102A.

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

[Compliance with this permit condition ensures compliance with the applicable requirements from 40 CFR Section 60.4243]

(a) Pursuant to 40 CFR Section 60.4243(d), the permittee shall operate the engine incorporated into Source ID P102A as an emergency stationary internal combustion engine per 40 CFR Section 60.4248. Accordingly, the permittee may operate the engine for non-emergency situations but only for a maximum of 100 hours per calendar year as permitted below. There is no time limit on the use of an emergency stationary internal combustion engine in emergency situations unless otherwise specified herein.

(b) The engine incorporated into Source ID P102A may be operated a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government,

**SECTION D. Source Level Requirements**

the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine.

(c) The engine incorporated into Source ID P102A shall not be operated to supply power to another entity.

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall not operate Source ID P102A more than 500 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 also derived from the applicable requirement at 40 CFR Section 60.4243]

(a) EPA reference method stack tests shall be conducted on Source ID P102A on an approximate triennial basis to determine NO<sub>x</sub>, CO and VOC emissions and verify compliance, while the engine is operating at maximum routine operating conditions (plus or minus 10% of 100% of peak load). Triennial stack tests shall occur no more than 36 months from the previous reference method stack test performance.

(b) All EPA reference method stack tests shall be performed using the methods and procedures that are acceptable to the Department. The permittee shall also conduct performance tests according to the applicable requirements under 40 CFR Section 4244.

**III. MONITORING REQUIREMENTS.**

**# 008 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall install, maintain and operate a non-resettable hour meter for Source ID P102A. The non-resettable hour meter shall continuously measure the total engine run-time of Source ID P102A.

**IV. RECORDKEEPING REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR Section 60.4245]

(a) The permittee shall keep record of the applicable initial notification requirement at 40 CFR Section 60.4245(c) and all documentation supporting the notification for Source ID P102A.

(b) Pursuant to 40 CFR Section 60.4243, the permittee shall keep a maintenance plan and records of conducted maintenance on Source ID P102A.

(c) The permittee shall submit a copy of each triennial EPA reference method stack test within 60 days after the test has been completed.

(d) All information generated to maintain the records above shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

**# 010 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) The permittee shall keep records for Source ID P102A, in order to demonstrate compliance with the hours of operation restrictions, including, but not limited to, the total run-time from the non-resettable hour meter; the total hours of operation calculation on at least a monthly basis; the total run-time per calendar year that the engine operated in non-emergency situations; the 12-month rolling hours of operation calculation; and a statement that describes the purpose for running the engine for each operating day.

**SECTION D. Source Level Requirements**

(b) All information generated to maintain the records above shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

For Source ID P102A, the permittee shall keep fuel-based emissions calculation records, or other records or periodic monitoring as approved by the Department, for compliance demonstration purposes with respect to the emission restrictions for particulate matter and sulfur oxides.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall maintain and operate Source ID P102A in a manner consistent with good air pollution control practice for minimizing emissions at all times.

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

[Additional authority for this permit condition is also derived from 40 CFR Section 60.4230]

Source P102A is subject to the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines as codified in 40 CFR Part 60 Subpart JJJJ. The permittee shall comply with all of the applicable requirements pertaining to Source ID P102A, as specified in Subpart JJJJ, 40 CFR Sections 60.4230 through 60.4248.

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

[Additional authority for this permit condition is also derived from 40 CFR Section 63.6585]

Source P102A is subject to the National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines as codified in 40 CFR Part 63 Subpart ZZZZ. The permittee shall comply with all of the applicable requirements pertaining to Source ID P102A, as specified in Subpart ZZZZ, 40 CFR Sections 63.6580 through 63.6675.

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

Source ID P102A consists of a Caterpillar emergency stationary reciprocating internal combustion engine that is fired on natural gas and used to power a Caterpillar, Model G3412 generator.



**SECTION E. Source Group Restrictions.**



**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



**SECTION H. Miscellaneous.**





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

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