



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

STATE ONLY NATURAL MINOR OPERATING PERMIT

Issue Date: October 5, 2021

Effective Date: October 5, 2021

Expiration Date: October 5, 2026

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: 52-00001

Natural Minor

Federal Tax Id - Plant Code: 31-0802435-13

Owner Information

Name: COLUMBIA GAS TRANS LLC

Mailing Address: 1700 MACCORKLE AVE SE
CHARLESTON, WV 25314-1518

Plant Information

Plant: COLUMBIA GAS TRANS CORP/MILFORD COMP STA

Location: 52 Pike County 52909 Milford Township

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

Responsible Official

Name: JONATHAN C ARRON

Title: MANAGER OF OPERATIONS

Phone: (607) 721 - 0106

Email: Jonathan_Arron@transcanada.com

Permit Contact Person

Name: JEFFREY MCCOMBS

Title: AIR PERMITTING PRINCIPAL

Phone: (724) 223 - 2764

Email:

[Signature] _____

MARK J. WEJKSZNER, NORTHEAST REGION AIR PROGRAM MANAGER



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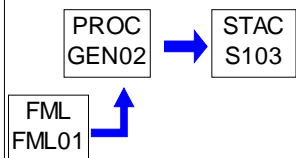
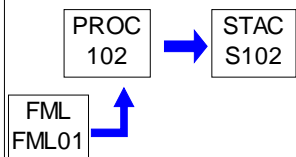
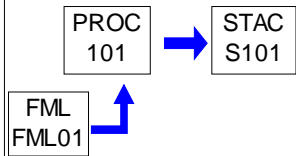
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Source ID	Source Name	Capacity/Throughput	Fuel/Material
101	TURBINE 1 (SOLAR CENTAUR WITH SOLONOX TECHNOLOGY 4,475 HP)	48.340 MCF/HR	Natural Gas
102	TURBINE 2 (SOLAR CENTAUR WITH SOLONOX TECHNOLOGY 4,475 HP)	48.340 MCF/HR	Natural Gas
GEN02	EMERGENCY GENERATOR (WAUKESHA 585 HP)	4.450 MCF/HR	Natural Gas
FML01	NATURAL GAS		
S101	STACK - TURBINE 1		
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S103	STACK - EMERGENCY GENERATOR 2		

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_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

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

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

(a) A person may not permit the emission into the outdoor atmosphere of a fugitive air contaminant 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.
- (7) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.
- (8) NA.
- (9) Sources and classes of sources other than those identified in paragraphs (1)-(8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (i) the emissions are of minor significance with respect to causing air pollution; and
 - (ii) 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**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in SECTION C, Condition #001 (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.31]**Limitations****MALODOR EMISSIONS**

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

004 [25 Pa. Code §123.41]**Limitations****VISIBLE EMISSIONS**

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

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

005 [25 Pa. Code §123.42]**Exceptions**

(a) The limitations in SECTION C, Condition #004 shall not apply to a visible emission in any of the following instances:

- (1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (3) When the emission results from sources specified in SECTION C, Condition #001.

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

If at any time the Department has cause to believe that air contaminant emissions from the aforementioned sources may be in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection, the company shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rates. Such testing shall be conducted in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notified the company that testing is required.

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

If requested by the Department, the permittee shall conduct performance (stack) tests in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department. The permittee will provide adequate sampling ports, safe sampling platforms, and adequate utilities for the performance by the Department of tests on such source(s). The Department will set forth, in the request, the time period in which the facilities shall be provided as well as the specifications for such facilities.

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

- (a) The following are applicable to source tests for determining emissions from stationary sources:
- (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.
 - (2) The Department will consider 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:
 - (i) A thorough source description, including a description of any air cleaning devices and the flue.
 - (ii) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature, and other conditions which may affect emissions from the process.
 - (iii) The location of the sampling ports.
 - (iv) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO₂, O₂ and N₂), static and barometric pressures.
 - (v) 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.
 - (vi) Laboratory procedures and results.
 - (vii) Calculated results.

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

- (a) 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.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.****FUGITIVE, VISIBLE, AND MALODOR EMISSIONS**

- (a) The permittee shall conduct weekly inspections of the facility perimeter, during daylight hours when the plant is in

**SECTION C. Site Level Requirements**

operation, to detect visible, fugitive, and malodor emissions as follows:

- (1) Visible emissions in excess of the limits stated in SECTION C, Condition #004.
 - (i) Visible emissions may be measured according to the methods specified in SECTION C, Condition #009, or alternatively, plant personnel who observe any visible emissions in excess of the limits stated in SECTION C, Condition #004 report the incident of visible emissions to the Department within four (4) hours of each incident and make arrangements for a certified observer to verify the opacity of the emissions.
- (2) The presence of fugitive emissions visible beyond the boundaries of the facility, as stated in SECTION C, Condition #002.
- (3) The presence of malodor emissions beyond the boundaries of the facility, as stated in SECTION C, Condition #003.
- (b) If the facility becomes unmanned during the term of this permit, the permittee shall notify the Department and the monitoring shall be conducted once a month with effect from the date of becoming an unmanned facility.

IV. RECORDKEEPING REQUIREMENTS.**# 011 [25 Pa. Code §135.5]****Recordkeeping**

- (a) The permittee shall maintain a logbook of the monthly fuel usage at the facility.
- (b) The permittee shall calculate the emissions of regulated pollutants, from the facility, on a monthly basis. The annual emissions shall be calculated based on a 12-month rolling sum. The emissions shall be calculated using AP-42 emission factors or other emission factors approved by the Department.
- (c) The permittee shall maintain a logbook of the visible emission inspections/corrective actions in accordance with SECTION C, Condition #019.
- (d) All records shall be maintained on-site and in accordance with SECTION B - General Requirements Condition #020.

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

- (a) The permittee shall report to the Department each malfunction that occurs at this facility. As defined in 40 CFR 60.2 and incorporated by reference in 25 Pa. Code Chapter 122, a malfunction means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment or a process to operate in a normal or unusual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.
- (b) When the malfunction poses a imminent and substantial danger to the public health and safety or potential harm to the environment, the notification shall be submitted to the Department no later than one hour after the incident.
- (c) Unless otherwise required by specific reporting requirements, any malfunction that is not subject to the notice requirements of subsection (b) of this permit condition shall be reported to the Department within 24 hours (or the next business day) of the discovery of the malfunction.
 - (1) The permittee shall notify the regional Air Program Manager within 24 hours (or the next business day) of becoming aware of the occurrence of excess emissions which last for more than 4 hours and which results from a malfunction, a breakdown of process or control equipment or any abnormal condition.

The notice shall describe the:

- (i) name and location of the facility.
- (ii) nature and cause of the malfunction or breakdown.

**SECTION C. Site Level Requirements**

- (iii) time when the malfunction or breakdown was first observed.
- (iv) expected duration of excess emissions.
- (v) estimated rate of emissions.

(2) The permittee shall notify the Department immediately when corrective measures have been accomplished.

(3) Subsequent to the malfunction, the permittee shall submit a full report on the malfunction to the Department within 15 days, if requested.

(4) The permittee shall submit reports on the operation and maintenance of the source to the Regional Air Program Manager at such intervals and in such form and detail as may be required by the Department. Information required in the reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and maintenance schedules.

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

(a) The company, within one (1) hour of discovery of occurrence, shall notify the Department by phone at (570) 826-2511, of any malfunction, recordkeeping and reporting errors, or other possible non-compliance issues, which result in, or may possibly be resulting in, the emission of air contaminants in excess of the limitations specified in, or established pursuant to, any applicable rule or regulations contained in Article III of the Rules and Regulations of the Department of Environmental Protection.

(b) A written report shall be submitted to the Department within five (5) working days following the incident describing the malfunction, recordkeeping and reporting error or other non-compliance issue and the corrective actions being taken. The Department may take enforcement action for any violations of the applicable standards.

014 [25 Pa. Code §135.21]**Emission statements**

(a) Except as provided in subsection (d), this section applies to stationary sources or facilities:

(1) Located in an area designated by the Clean Air Act as a marginal, moderate, serious, severe or extreme ozone nonattainment area and which emit oxides of nitrogen or VOC.

(2) Not located in an area described in subparagraph (1) and included in the Northeast Ozone Transport Region which emit or have the potential to emit 100 tons or more oxides of nitrogen or 50 tons or more of VOC per year.

(b) The owner or operator of each stationary source emitting oxides of nitrogen or VOC's shall provide the Department with a statement, in a form as the Department may prescribe, for classes or categories of sources, showing the actual emissions of oxides of nitrogen and VOC's from that source for each reporting period, a description of the method used to calculate the emissions and the time period over which the calculation is based. The statement shall contain a certification by a company officer or the plant manager that the information contained in the statement is accurate.

(c) Annual emission statements are due by March 1 for the preceding calendar year beginning with March 1, 1993, for calendar year 1992 and shall provide data consistent with requirements and guidance developed by the EPA. The guidance document is available from: United States Environmental Protection Agency, 401 M. Street, S.W., Washington, D.C. 20460. The Department may require more frequent submittals if the Department determines that one or more of the following applies:

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

(2) Analysis of the data on a more frequent basis is necessary to implement the requirements of the act.

(d) Subsection (a) does not apply to a class or category of stationary sources which emits less than 25 tons per year of VOC's or oxides of nitrogen, if the Department in its submissions to the Administrator of the EPA under section 182(a)(1) or (3)(B)(ii) of the Clean Air Act (42 U.S.C.A. 7511a(a)(1) or (3)(B)(ii)) provides an inventory of emissions from the class or category of sources based on the use of the emission factors established by the Administrator or other methods acceptable to the Administrator. The Department will publish in the Pennsylvania Bulletin a notice of the lists of classes or categories of sources which are exempt from the emission statement requirement under this subsection.

**SECTION C. Site Level Requirements****# 015 [25 Pa. Code §135.3]****Reporting**

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

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

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

016 [25 Pa. Code §135.4]**Report format**

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

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

(a) The permittee shall take all reasonable actions to prevent particulate matter emitted from a source identified in SECTION C, Condition #001 from becoming airborne. These actions shall include, but not be limited to, the following:

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

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

The permittee shall inspect and record any indication of visible emissions on a weekly basis when operating personnel are on-site. The permittee shall also take corrective action to eliminate any visible emission occurrences and take action to prevent future occurrences.

019 [25 Pa. Code §129.14]**Open burning operations**

Outside of air basins

(a) A person may not permit the open burning of material in an area outside of air basins in a manner that:

- (1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.
- (2) Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.
- (3) The emissions interfere with the reasonable enjoyment of life or property.
- (4) The emissions cause damage to vegetation or property.
- (5) The emissions are or may be deleterious to human or animal health.

**SECTION C. Site Level Requirements**

- (b) Exceptions: The requirements of subsections (a) do not apply where the open burning operations result from:
- (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
 - (2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
 - (3) A fire set for the prevention and control of disease or pests, when approved by the Department.

- (c) Clearing and grubbing wastes. The following is applicable to clearing and grubbing wastes:
- (1) As used in this subsection the following terms shall have the following meanings:

Air curtain destructor -- A mechanical device which forcefully projects a curtain of air across a pit in which open burning is being conducted so that combustion efficiency is increased and smoke and other particulate matter are contained.

Clearing and grubbing wastes -- Trees, shrubs, and other native vegetation which are cleared from land during or prior to the process of construction. The term does not include demolition wastes and dirt laden roots.

- (2) Subsection (a) notwithstanding, clearing and grubbing wastes may be burned in a basin subject to the following requirements:

- (i) Air curtain destructors shall be used when burning clearing and grubbing wastes.
- (ii) Each proposed use of air curtain destructors shall be reviewed and approved by the Department in writing with respect to equipment arrangement, design and existing environmental conditions prior to commencement of burning. Proposals approved under this subparagraph need not obtain plan approval or operating permits under Chapter 127 (relating to construction modification, reactivation and operation of sources).

VII. ADDITIONAL REQUIREMENTS.

020 [25 Pa. Code §137.5]
Implementation of emission reduction procedures

A person responsible for the operation of a source not required to prepare a standby plan in accordance with 137.4 shall, when the Department declares that a forecast, alert, warning or emergency level exists in an area of this Commonwealth in which the source is located, implement applicable emission reduction procedures in accordance with the objectives of 137.11--137.14.

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: 101

Source Name: TURBINE 1 (SOLAR CENTAUR WITH SOLONOX TECHNOLOGY 4,475 HP)

Source Capacity/Throughput: 48.340 MCF/HR Natural Gas

Conditions for this source occur in the following groups: GROUP 01



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

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) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

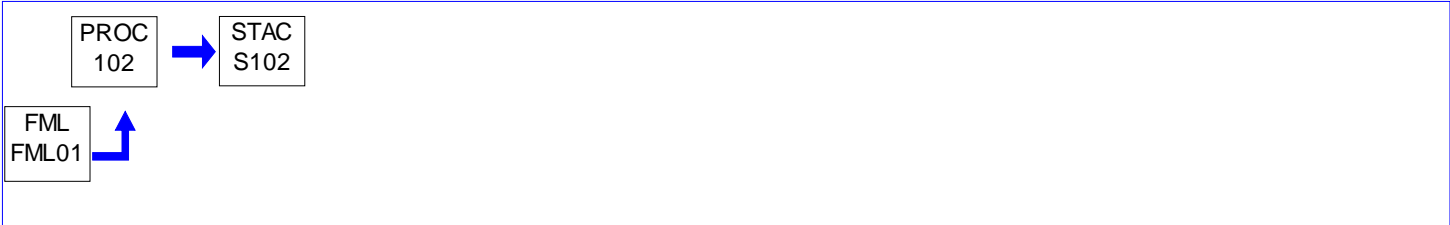
No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).



SECTION D. Source Level Requirements

Source ID: 102 Source Name: TURBINE 2 (SOLAR CENTAUR WITH SOLONOX TECHNOLOGY 4,475 HP)
Source Capacity/Throughput: 48.340 MCF/HR Natural Gas

Conditions for this source occur in the following groups: GROUP 01



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

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) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Requirements**

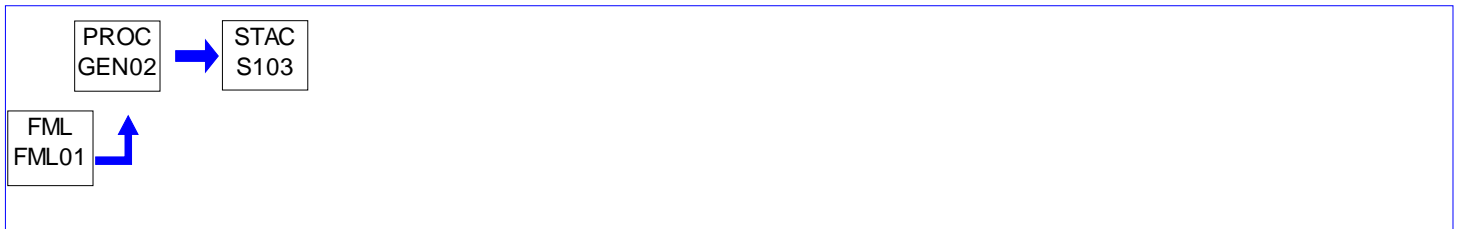
Source ID: GEN02

Source Name: EMERGENCY GENERATOR (WAUKESHA 585 HP)

Source Capacity/Throughput:

4.450 MCF/HR

Natural Gas

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

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission into the outdoor atmosphere of total particulate matter (TPM) from the emergency generator in a manner that the concentration of TPM in the effluent gas exceeds 0.02 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not allow the emission into the outdoor atmosphere of sulfur oxides (SOx) in a manner that the concentration of the SOx (expressed as SO₂) in the effluent gas exceeds 500 parts per million, by volume, dry basis.

The Permittee may choose to comply with this requirement by using only pipeline quality natural gas. Upon Department request, the Permittee shall obtain a certification of fuel sulfur content from the supplier, provide fuel analysis or fuel samples of fuel used, and/or provide a copy of the FERC tariff sheet in order to show that the fuel meets the requirements of

- 0.25 grains of hydrogen sulfide (H₂S) per 100 cubic feet of gas; and
- 2 grains of total sulfur per 100 cubic feet of gas)

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

The permittee shall comply with all applicable requirements of 40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants for Source Categories (NESHAP) Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4233]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What emission standards must I meet if I am an owner or operator of a stationary SI internal combustion engine?**

- NA.
- NA.
- NA.
- NA.

(e) Owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards in Table 1 to this subpart for their stationary SI ICE. For owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 100 HP (except gasoline and rich burn engines that use LPG) manufactured prior to January 1, 2011 that were certified to the certification emission standards in 40 CFR part 1048 applicable to engines that are not severe duty engines, if such stationary SI ICE was certified to a carbon monoxide (CO) standard above the standard in Table 1 to this subpart, then the owners and operators may meet the CO certification (not field testing) standard for which the engine was certified.

**SECTION D. Source Level Requirements**

FROM TABLE 1

2.0 g/hp-hr. NO_x
 4.0 g/hp-hr. CO
 1.0 g/hp-hr. VOC

- (f) NA.
 (g) NA.
 (h) NA.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

(c) An area source of HAP emissions is a source that is not a major source.

(d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008; 78 FR 6700, Jan. 30, 2013]

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

The Emergency Generator shall not operate more than 500 hours during any consecutive 12-month period.

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

The permittee shall comply with all applicable Emission Standards requirements specified in 40 CFR Part 60 Subpart JJJJ 60.4233 through 60.4234.

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

The permittee shall comply with all applicable Testing requirements specified in 40 CFR Part 60 Subpart JJJJ 60.4244.

**SECTION D. Source Level 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.

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

V. REPORTING REQUIREMENTS.

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

The permittee shall comply with all applicable Notification, Reporting and Records requirements specified in 40 CFR Part 60 Subpart JJJJ 60.4245.

VI. WORK PRACTICE REQUIREMENTS.

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

- (a) The natural gas fueled engine is subject to 40 CFR, Part 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignited Internal Combustion Engines and the permittee shall comply with all applicable requirements of the subpart.
- (b) The permittee shall comply with all applicable Compliance requirements specified in 40 CFR Part 60 Subpart JJJJ 60.4243.
- (c) The permittee shall comply with all applicable Other requirements specified in 40 CFR Part 60 Subpart JJJJ 60.4235 through 60.4237.
- (d) The engine shall be designed to comply with the Compliance Requirements for Manufacturers specified in 40 CFR Part 60 Subpart JJJJ 60.4238 through 60.4242.

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: GROUP 01

Group Description: TURBINES

Sources included in this group

ID	Name
101	TURBINE 1 (SOLAR CENTAUR WITH SOLONOX TECHNOLOGY 4,475 HP)
102	TURBINE 2 (SOLAR CENTAUR WITH SOLONOX TECHNOLOGY 4,475 HP)

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

The permittee shall comply with all applicable Performance Testing requirements specified in 40 CFR Part 60 Subpart KKKK 60.4400 through 60.4415.

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

(a) Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.12(a)(5), the permittee shall not allow the emission of nitrogen oxides (NO_x), carbon monoxide (CO), non-methane non-ethane hydrocarbon (NMNEHC), and total particulate matter (TPM) into the outdoor atmosphere from the each turbine in excess of the following limits:

- (1) 25 ppmvd NO_x at 15% O₂;
- (2) 25 ppmvd CO at 15% O₂;
- (3) 9 ppmvd NMNEHC at 15% O₂ (measured as propane); and
- (4) 0.03 lb TPM/mmBTU.

(b) The emission limitations specified in part (a), above, shall apply at all times except during the following periods:

- (1) Periods of start-up and shutdown, provided that the duration of start-up and shut-down do not exceed thirty (30) minutes per occurrence; and
- (2) Periods of operation in subzero ambient temperature conditions (i.e., less than 0°F).

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

The permittee shall comply with all applicable Emission Limit requirements specified in 40 CFR Part 60 Subpart KKKK 60.4315 through 60.4330.

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

- a. Particulate - 0.74 lbs/hr/turbine, (1.48 pounds per hour, total)
- b. Nitrogen Oxides (NO_x) - 4.45 lbs/hr/turbine (8.9 pounds per hour, total)
- c. Sulfur Dioxide (SO₂) - 2.82 lbs/hr/turbine (5.64 pounds per hour, total).
- d. Carbon Monoxide (CO) - 2.71lbs/hr/turbine (5.42 pounds per hour, total).
- e. Volatile Organic Compounds (VOC) - 0.31 lbs/hr/turbine (0.62 pounds per hour, total).
- f. Formaldehyde (HCHO) - 0.04 lbs/hr/turbine (0.08 lbs/hr, total)
- g. Total HAPs - 0.05 lbs/hr/turbine (0.10 lbs/hr, total)

These emission limits do not apply during the startup and shutdown of the internal combustion engines. Each startup and shutdown period is limited to a maximum of 30 minutes each.

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

The permittee shall limit the emissions from the turbines at the facility during any consecutive 12-month period to the following:

- a. Particulate - 6.22 tons/year.
- b. Nitrogen Oxides (NO_x) as NO₂ - 39.44 tons/year.
- c. Sulfur Dioxide (SO_x) - 0.30 tons/year.

**SECTION E. Source Group Restrictions.**

- d. Carbon Monoxide (CO) - 48.50 tons/year.
- e. Volatile Organic Compounds (VOC) - 2.98 tons/year.
- f. Formaldehyde (HCHO) - 0.30 tons/year.
- g. Hazardous Air Pollutants (Combined HAPS) - 0.42 tons/year.

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

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 ppmvd.

(The Permittee may choose to comply with this requirement by using only pipeline quality natural gas. Upon Department request, the Permittee shall obtain a certification of fuel sulfur content from the supplier, provide fuel analysis or fuel samples of fuel used, and/or provide a copy of the FERC tariff sheet in order to show that the fuel meets the requirements of:

- (a) 0.25 grains of hydrogen sulfide (H₂S) per 100 cubic feet of gas; and
- (b) 2 grains of total sulfur per 100 cubic feet of gas.)

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

The company shall meet the following emission limitations during startup/shut down events.

Start-up:

- NO_x- 0.70 lb/each event
- CO- 64.40 lb/each event
- VOC- 0.74 lb/each event.

Shut-Down:

- NO_x- 0.30 lb/each event
- CO- 30.20 lb/each event
- VOC- 0.34 lb/each event.

(Event is define as 1 startup & 1 shut down)

Fuel Restriction(s).**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall only use pipeline quality natural gas as fuel in each turbine.

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

Pursuant to 40 CFR Part 60, Subpart KKKK, the combustion turbines shall primarily fire natural gas with sulfur content no greater than 20 grains/100 SCF.

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

1. Within 180 days of initial start-up, a stack test shall be performed in accordance with the provision of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection & 40 CFR part 60, Subpart KKKK, to demonstrate the compliance with the emission limitations set by the conditions above for NO_x, CO, VOC and PM₁₀ emissions. The stack tests shall be performed while the aforementioned sources are operating at the maximum rated capacity as stated on the application. If testing is performed at a rate of less than full production, operation is restricted to the process-input rate of

**SECTION E. Source Group Restrictions.**

testing at such level until a subsequent compliance test is performed at a full production.

2. At least sixty (60) calendar days prior to commencing an emission testing program required by this permit, a test protocol shall be submitted to the Department's Division of Source Testing and Monitoring and the Regional Office for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

3. At least fifteen (15) calendar days prior to commencing an emission testing program required by this permit, written notification of the date and time of testing shall be provided to the Department's appropriate Regional Office. Written notification shall also be sent to the Department's Bureau of Air Quality, Division of Source Testing and Monitoring. The notification shall not be made without prior receipt of a protocol acceptance letter from the Department. The Department is under no obligation to accept the results of any testing performed without adequate advance written notice to the Department of such testing. In addition, the emissions testing shall not commence prior to receipt of a protocol acceptance letter from the Department.

4. A complete test report shall be submitted to the Department no later than sixty (60) calendar days after completion of the on-site testing portion of an emission test program.

5. A complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

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

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

In addition to the initial source testing requirement, every 2,500 hours of operation and no sooner than forty-five (45) days from the previous test, the owner or operator shall perform periodic monitoring for NO_x and CO emissions to verify continued compliance upon each of the respective turbines subject to the BAT. A Department-approved test that has been performed within 45 days prior to the scheduled periodic monitoring may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition utilizing three test runs of twenty (20) minutes for each test run. The Department may alter the frequency of portable analyzer tests based on the test results. The frequency of portable gas analyzer tests may be altered with written Departmental approval. The portable gas analyzer shall be used and maintained according to the manufacturer's specifications and the procedures specified in ASTM D 6522 or equivalent as approved by the Department.

Within thirty (30) calendar days after the completion of periodic monitoring, the owner or operator shall submit the results to the appropriate DEP Regional Office. 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.**

(a) Within 180 days after the start-up of an air contamination source, the permittee shall develop a leak detection and repair (LDAR) program and perform LDAR monitoring.

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

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

**SECTION E. Source Group Restrictions.**

set forth at Method 21 specified in 40 CFR Part 60, Appendix A.

(d) Leak means:

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

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

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

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

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

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

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

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

(k) The permittee shall, at a minimum, on a monthly basis perform audible, visual, and olfactory (AVO) inspections to detect leaks from the equipment listed above.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Actions Related to Noncompliance Demonstrated by a Stack Test:

(a) If the results of a stack test, performed as required by this approval, exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. Within 30 days of the Permittee receiving the stack test results, a written description of the corrective actions shall be submitted to the Department. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. The Department shall notify the permittee within 30 days, if the corrective actions taken are deficient. Within 30 days of receipt of the notice of deficiency, the Permittee shall submit a description of additional corrective actions to the Department. The Department reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(b) If the results of the required stack test exceed any limit defined in this plan approval, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the plan approval, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee

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receiving the original stack test results, a retest shall be performed. The Department may extend the retesting deadline if the Permittee demonstrates, to the Department's satisfaction, that retesting within 120 days is not practicable. Failure of the second test to demonstrate compliance with the limits in the plan approval, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the plan approval may be grounds for immediate revocation of the plan approval to operate the affected source.

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

The permittee shall comply with all applicable Monitoring requirements specified in 40 CFR Part 60 Subpart KKKK 60.4335 through 60.4370.

A continuous monitoring system shall be installed and operated to monitor and record the fuel consumption for each turbine. This system shall be accurate to within plus or minus 5 percent.

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

015 [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 turbine shall be equipped, prior to initial start-up, with instrumentation to continuously monitor manufacturer's recommended, operational parameters which will indicate whether the turbine is operating in a low-NO_x (SoLoNO_x) mode.

The turbine combustion temperature and gas producer speed of the Taurus turbines shall be continuously monitored.

(a) Beginning on the start-up date of source(s), the permittee shall conduct monthly walk-around inspections during daylight hours and while the facility is operating. Monthly inspections are performed to detect for: (1) the presence of visible emissions; (2) the presence of visible fugitive air contaminants; (3) the presence of audible fugitive air contaminants; (4) the presence of malodors beyond the boundaries of the facility.

(b) The detected visible emissions and, audible or olfactible fugitive air contaminants shall be repaired no later than 15 calendar days after a leak is detected.

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

(a) The owner or operator shall maintain a log for the results of each monthly AVO inspections, including date of each inspection performance and the name of the company representative performing the inspection.

(b) The permittee shall maintain all LDAR monitoring data, including calibration data, identification of leaking components, date of leak discovery, date of each attempted repair and date of final repair.

(c) All information generated to satisfy this recordkeeping condition shall be kept for a minimum of 5 years and shall be made available to the Department upon request.

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

1. The company shall maintain a file containing all records and other data that are required to be collected pursuant to the various provisions of this plan approval. The file shall include, but not be limited to: all air pollution control systems performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment which is subject to this plan approval. All measurements, records and other data required to be maintained by the company shall be retained for at least five years following the date on which such measurements, records or data are recorded.

**SECTION E. Source Group Restrictions.**

2. The company shall maintain following records:

- (a) Data which clearly demonstrates that the heat input of the turbine never exceeds its rated capacity.
- (b) The records shall provide sufficient data to clearly demonstrate that the requirement of plan approval conditions are met.
- (c) Monthly hours of operation of turbine in each operating mode including normal, sub-zero temperature, low-load (<50%), and start-up and shutdown periods for the turbine.
- (d) Monthly fuel consumption rate and 12-month rolling total fuel consumption, total heat input for the combustion turbine.

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

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

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

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

The permittee shall record the following:

- a. Monthly amount of fuel fired in the turbines.
- b. 12-month rolling total amount of fuel fired in the turbines.
- c. Monthly hours of operation.
- d. Monthly emissions of particulate, NO_x, SO_x, CO, VOC, Formaldehyde and HAPs.
- e. 12-month rolling total emissions of particulate, NO_x, SO_x, CO, VOC, Formaldehyde and HAPs.

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

The permittee shall record each start-up, shutdown and malfunction of the turbines. The records shall include the date, time, duration and type of event.

Note: "Malfunction" means 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 which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

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

The permittee shall calculate the emissions from the engines using the rates found in the application, or as approved by the Department. The emission rates may be reviewed after results of testing are approved by the Department. Emission rates from approved test results shall be used to calculate emissions once approved.

The permittee shall keep records of the appropriate operational parameters for the turbine which will indicate low-NO_x (SoLoNO_x) mode operation.

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

The permittee shall comply with all applicable Reporting requirements specified in 40 CFR Part 60 Subpart KKKK 60.4375 through 60.4395.

**SECTION E. Source Group Restrictions.****VI. WORK PRACTICE REQUIREMENTS.****# 023 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall not, at any time, operate any turbine without the simultaneous operation of the turbine's respective SoLoNOx system except operating turbine during sub-zero temperature operation, low-load (<50%) operation, and startup and shutdown events.

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

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.12(a)(5), the turbine's shall be:

- (a) Constructed, operated and maintained in accordance with the manufacturer's specifications.
- (b) Operated in a manner consistent with good air pollution control practices for minimizing emissions at all times, including periods of startup, shutdown and malfunction.

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

The company shall perform adjustment and/or tune-up on the combustion process as per manufacturer specifications. The source shall be operated and maintained in accordance with the manufacturers specification and with good air pollution control practices.

The combustion turbine shall employ a lean-premixed dry low emissions system (SoLoNOX) to control NOx emissions.

Each turbine shall be equipped with non-resettable hour meters or an equivalent method of tracking the hours of operation approved by the Department.

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

The permittee shall comply with all applicable General Compliance requirements specified in 40 CFR Part 60 Subpart KKKK 60.4333.

VII. ADDITIONAL REQUIREMENTS.

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



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.**

(a) The Department received the operating permit application for this facility on 10/20/2020. The annual operating permit administrative fee per 25 Pa. Code, Chapter 127, Section 127.703(c)(3) for this permit is due within 30-days prior to the annual anniversary date of the issuance of this permit.

(b) This permit is a renewal of Operating Permit SM 52-00001 and incorporates conditions from Plan Approval #52-00001A issued 01/15/2015.

(c) This is a Natural Minor Operating Permit facility.

(d) The following is a list of sources that have been determined by the Department to be of minor significance under 25 Pa. Code, Chapter 127, Section 127.14(a)(8) and are not regulated in this State-Only Operating Permit. However, this determination does not exempt the sources from compliance with all applicable air quality regulations specified in 25 Pa. Code Chapters 121-143:

HTR1 - one (1) natural gas fired line heater having a maximum rated heat input capacity of 1.25 MMBtu/hr.

HTR2 - twelve (12) natural gas fired space heaters each having a maximum rated heat input capacity of 0.72 MMBtu/hr.

A06 - one (1) 1,000 gallon basement water tank.

T01 - one (1) 2,000 gallon condensate storage tank w/ carbon absorber.

(1) RFD #52-0044 approved 09/24/2015 for the temporary use of an emergency generator.

(2) RFD #52-0053 approved 08/12/2019 for installation of one (1) 2,271 gallon condensate storage tank equipped with a vent mist and separator.

(3) RFD #52-0054 approved 01/08/2020 for replacement of the cores for the two (2) existing 4,700-hp Solar Centaur Turbines (Units 101 and 102).

Any emissions from exempt sources at the facility shall be identified and included in the facilities emission totals.



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