



40-00002

TRANSCONTINENTAL GAS/BEAR CREEK STA 515



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

**TITLE V/STATE OPERATING PERMIT**

Issue Date: December 16, 2025

Effective Date: December 28, 2025

Expiration Date: December 28, 2030

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

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

**TITLE V Permit No: 40-00002**

Federal Tax Id - Plant Code: 74-1079400-3

**Owner Information**

Name: TRANSCONTINENTAL GAS PIPE LINE CO LLC

Mailing Address: 99 FARBER RD  
PRINCETON, NJ 08540

**Plant Information**

Plant: TRANSCONTINENTAL GAS/BEAR CREEK STA 515

Location: 40 Luzerne County 40926 Buck Township

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

**Responsible Official**

Name: GLEN JASEK

Title: VP GM EASTERN INTERSTATES

Phone: (713) 215 - 2134

Email: Glen.Jasek@Williams.com

**Permit Contact Person**

Name: MICHAEL HAHN

Title: ENVIRONMENTAL SPECIALIST

Phone: (267) 207 - 1778

Email: Michael.Hahn@Williams.com

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

MARK J. WEJKSZNER, NORTHEAST REGION AIR PROGRAM MANAGER



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**SECTION A. Site Inventory List**

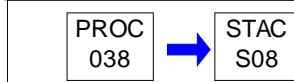
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050	(17) SPACE HEATERS		
038	#6 SOLAR MARS GAS TURBINE	135.700 MMBTU/HR	
		123.400 MCF/HR	Natural Gas
039	#7 SOLAR MARS 100 GAS TURBINE	125.950 MMBTU/HR	
042	WAUKESHA EMERGENCY GENERATOR		
043	PARTS WASHER/DEGREASER		
044	#8 SOLAR MARS 100 GAS TURBINE		
045	WAUKESHA P48GL, EMERGENCY GENERATOR (#2)		
051	#9 SOLAR TITAN 250 GAS TURBINE W/SOLONOX		
052	#10 SOLAR TITAN 250 GAS TURBINE W/SOLONOX		
053	AUXILIARY GENERATOR #1		
054	AUXILIARY GENERATOR #2		
055	AUXILIARY GENERATOR #3		
101	FUGITIVE VOC EMISSIONS FROM VALVES AND FLANGES		
102	TANK TRUCK LOADING OPERATIONS		
103	VENTING/BLOWDOWN OPERATIONS		
200	NG CONDENSATE LIQUIDS STORAGE TANK		
201	OILY WASTEWATER STORAGE TANK		
C044	OXIDATION CATALYST		
C053	NSCR CATALYST (053)		
C054	NSCR CATALYST (054)		
C055	NSCR CATALYST (055)		
FML01	NATURAL GAS PIPELINE		
S044	#8 SOLAR MARS 100 STACK		
S045	EMER GEN (#2) STACK		
S051	STACK - #9 SOLAR TITAN 250 TURBINE		
S052	STACK - #10 SOLAR TITAN 250 TURBINE		
S053	STACK - AUXILIARY GENERATOR #1		
S054	STACK - AUXILIARY GENERATOR #2		
S055	STACK - AUXILIARY GENERATOR #3		
S08	#6 MARS SOLAR STACK		
S09	#7 SOLAR MARS 100 STACK		
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Z050	SPACE HEATER FUGITIVES		
Z101	FUGITIVE EMISSIONS		
Z43	DEGREASER STACK		

**PERMIT MAPS**

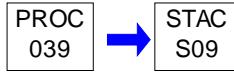
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Z050



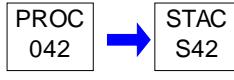
## PERMIT MAPS



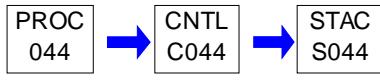
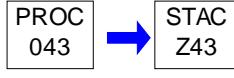
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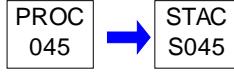
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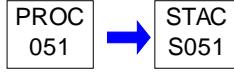
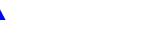
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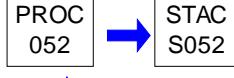
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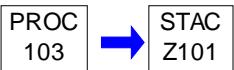
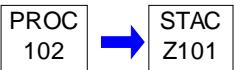
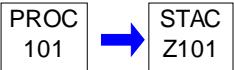
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**PERMIT MAPS**

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## SECTION B. General Title V Requirements

### #001 [25 Pa. Code § 121.1]

#### Definitions

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

### #002 [25 Pa. Code § 121.7]

#### Prohibition of Air Pollution

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

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

#### Property Rights

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

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

#### Permit Expiration

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

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

#### Permit Renewal

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

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

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

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

### #006 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]

#### Transfer of Ownership or Operational Control

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

(1) The Department determines that no other change in the permit is necessary;

(2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit



## SECTION B. General Title V Requirements

responsibility, coverage and liability between the current and the new permittee; and,

(3) A compliance review form has been submitted to the Department and the permit transfer has been approved by the Department.

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

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

#### Inspection and Entry

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

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

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

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

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

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

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

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

#### Compliance Requirements

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

(1) Enforcement action

(2) Permit termination, revocation and reissuance or modification

(3) Denial of a permit renewal application

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

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



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### #009 [25 Pa. Code § 127.512(c)(2)]

#### Need to Halt or Reduce Activity Not a Defense

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

### #010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]

#### Duty to Provide Information

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

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

### #011 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]

#### Reopening and Revising the Title V Permit for Cause

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

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

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

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

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

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

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

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

### #012 [25 Pa. Code § 127.543]

#### Reopening a Title V Permit for Cause by EPA

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



## SECTION B. General Title V Requirements

### #013 [25 Pa. Code § 127.522(a)]

#### Operating Permit Application Review by the EPA

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

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

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

### #014 [25 Pa. Code § 127.541]

#### Significant Operating Permit Modifications

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

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

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

### #015 [25 Pa. Code §§ 121.1 & 127.462]

#### Minor Operating Permit Modifications

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

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

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

### #016 [25 Pa. Code § 127.450]

#### Administrative Operating Permit Amendments

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

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

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

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

### #017 [25 Pa. Code § 127.512(b)]

#### Severability Clause

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



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

#### Fee Payment

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

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

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

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

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

- (1) Eight thousand dollars (\$8,000) for calendar years 2021—2025.
- (2) Ten thousand dollars (\$10,000) for calendar years 2026—2030.
- (3) Twelve thousand five hundred dollars (\$12,500) for the calendar years beginning with 2031.

### #019 [25 Pa. Code §§ 127.14(b) & 127.449]

#### Authorization for De Minimis Emission Increases

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

- (1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.
- (2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

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

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

- (1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.
- (2) One ton of NOx from a single source during the term of the permit and 5 tons of NOx at the facility during the term of the permit.
- (3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of



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oxides of sulfur at the facility during the term of the permit.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

### #020 [25 Pa. Code §§ 127.11a & 127.215]

#### Reactivation of Sources

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

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

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

#### Circumvention

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

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

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

#### Submissions

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

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

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

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

The Title V compliance certification shall be emailed to EPA at R3\_APD\_Permits@epa.gov.

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

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

#### Sampling, Testing and Monitoring Procedures

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this



## SECTION B. General Title V Requirements

permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

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

### #024 [25 Pa. Code § 127.513]

#### Compliance Certification

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

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

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3\_APD\_Permits@epa.gov.

### #025 [25 Pa. Code §§ 127.511 & Chapter 135]

#### Recordkeeping Requirements

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

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

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

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



## SECTION B. General Title V Requirements

### #026 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]

#### Reporting Requirements

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

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

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

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

### #027 [25 Pa. Code § 127.3]

#### Operational Flexibility

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

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

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

#### Risk Management

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

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

- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:



## SECTION B. General Title V Requirements

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

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

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

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

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

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

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

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

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

### #029 [25 Pa. Code § 127.512(e)]

#### Approved Economic Incentives and Emission Trading Programs

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

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

#### Permit Shield

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

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

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

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

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

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



## SECTION B. General Title V Requirements

- (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.
- (4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.
- (c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department incorporating a significant permit modification in this Title V Permit shall be covered by the permit shield at the time that the permit containing the significant modification is issued.

### #031 [25 Pa. Code §135.3]

#### Reporting

- (a) The permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.
- (b) A source owner or operator may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

### #032 [25 Pa. Code §135.4]

#### Report Format

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



## SECTION C. Site Level Requirements

### I. RESTRICTIONS.

#### Emission Restriction(s).

##### **# 001 [25 Pa. Code §123.1]**

##### **Prohibition of certain fugitive emissions**

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

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving, and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars, and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Open burning operations.
- (7) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.
- (8) Sources and classes of sources other than those identified above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
  - (a) The emissions are of minor significance with respect to causing air pollution.
  - (b) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

##### **# 002 [25 Pa. Code §123.2]**

##### **Fugitive particulate matter**

No person may permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in (1) through (8) in Condition #001 above if the emissions are visible at the point the emissions pass outside the person's property.

##### **# 003 [25 Pa. Code §123.31]**

##### **Limitations**

##### **MALODOROUS 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 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**

The limitations in Site Condition #004 shall not apply to a visible emission in any of the following instances:

- (a) when the presence of uncombined water is the only reason for failure of the emission to meet the limitations.



## SECTION C. Site Level Requirements

(b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.

(c) When the emission results from sources specified in Site Condition #001.

(d) When arising from the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.

### # 006 [25 Pa. Code §127.36]

#### Health risk-based emission standards and operating practice requirements.

(a) This section describes the process for establishing health risk-based emission standards and operating practice requirements.

(b) When needed to protect public health, welfare and the environment from emissions of hazardous air pollutants from new and existing sources, the Department may impose health risk-based emission standards or operating practice requirements, except as precluded by section 6.6(d)(2) and (3) of the act (35 P.S. 4006.6(d)(2) and (3)).

(c) In developing health risk-based emission standards or operating practice requirements, the Department will provide an explanation and rationale for the standards or requirements.

(d) The Department will provide for public review and comment on a plan approval, guideline and regulation which contains a health risk-based emission standard or operating practice requirement.

(e) Standards or requirements adopted under this section shall be developed using an analysis which, among other factors, considers, when appropriate for a source or source category, the criteria in section 112(f)(1) of the Clean Air Act (42 U.S.C.A. 7412(f)(1)), in assessing the proposed risk to the public health, welfare and the environment from the source.

(f) The standards established under this section shall be incorporated into the plan approval of each source within the category or subcategory for which the health risk-based performance or emission standard has been established. The Department has the authority to require, in the plan approval and operating permit, reasonable monitoring, recordkeeping and reporting requirements for sources which emit hazardous air pollutants.

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

## II. TESTING REQUIREMENTS.

### # 007 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

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

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



## SECTION C. Site Level Requirements

be calibrated before use on each day of its use by following the manufacturer-recommended procedures or the procedure set forth at Method 21 specified in 40 CFR Part 60, Appendix A.

(d) Leak means:

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

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

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

(g) Leaks shall be repaired no later than 30 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 thirty (30) days after it is detected, the leaking equipment or component must be listed on a Delay of Repair (DOR) List.

(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.

### # 008 [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 any stack testing, a test protocol shall be submitted to the Department 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. The test protocol must also notify the PA DEP of the planned date for performing the on-site testing portion of the method.

(b) Pursuant to 40 CFR Part 60.8(a), 40 CFR Part 61.13(f) and 40 CFR Part 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.

(c) Pursuant to 25 Pa. Code Section 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 non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following



## SECTION C. Site Level Requirements

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.

(d) A complete test report shall also include a parameter monitoring plan that satisfies the following elements. The parameter monitoring plan is used to incorporate compliance indicators into the operation of the process so that the NOx, VOC, CO and formaldehyde emissions restrictions are enforceable as a practical matter and satisfy all applicable federal and state regulatory requirements.

1. The plan explains the procedures used to document proper operation of the process and air cleaning device.
2. The plan includes the compliance indicators to be monitored.
3. The plan shows there is a significant relationship between the emissions and the selected compliance indicators.
4. The plan selects ranges (or designated conditions) based on supporting data for compliance indicator purposes.
5. The plan explains the elements it incorporates to make certain that the data collected for compliance indicator purposes is representative of actual process conditions, such as but not limited to detector location specifications, description of quality assurance and control practices, etc.
6. The plan describes the frequency of measurements for the parametric monitoring and the data collection procedures which will be used to document compliance indicators (e.g., you are using a computerized data acquisition over a number of discrete data points with the average (or maximum value) being used for purposes of determining whether an exceedance has occurred).

(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 Section 139.53(a)(1) and 139.53(a)(3) all submittals, besides notifications, shall be accomplished through PSIMS\*Online available through <https://www.depgreenport.state.pa.us/ecom/Login.jsp> when it becomes available. If internet submittal can not be accomplished, two (2) copies of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, North East Regional Office, Air Quality Program Manager, 2 Public Square, Wilkes-Barre, PA 18701 with deadlines verified through document postmarks.

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

### # 009 [25 Pa. Code §127.511]

#### **Monitoring and related recordkeeping and reporting requirements.**

The Department may require source testing to demonstrate compliance with any emission limit specified in this Permit. Such testing shall be conducted in accordance with the provisions of 25 Pa. Code, Chapter 139 and General Title V Requirement, Condition #023.



## SECTION C. Site Level Requirements

### # 010 [25 Pa. Code §139.1]

#### **Sampling facilities.**

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

### # 011 [25 Pa. Code §139.11]

#### **General requirements.**

The following provisions 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, CO<sub>2</sub>, O<sub>2</sub> and N<sub>2</sub>), 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.

### # 012 [25 Pa. Code §123.43]

#### **Measuring techniques**

Visible emissions may be measured using either of the following:

(a) A device approved by the Department and maintained to provide accurate opacity measurements.

(b) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

### # 013 [25 Pa. Code §127.511]

#### **Monitoring and related recordkeeping and reporting requirements.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§127.1 and 127.12, as well as 40 CFR§52.21.]

(a) 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.



## SECTION C. Site Level Requirements

(b) The detected visible emissions and visible, audible or olfactible fugitive air contaminants that have the potential to exceed applicable standards shall be reported to the manager of the facility.

### IV. RECORDKEEPING REQUIREMENTS.

#### # 014 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

All information used to satisfy the recordkeeping requirements herein shall be kept available for minimum of five (5) years and shall be made available upon request.

#### # 015 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

(a) The permittee shall maintain a log for the results of each monthly AVO inspection, 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, repair methods, repair delays, date of each attempted repair, and date of final repair.

#### # 016 [25 Pa. Code §127.511]

##### **Monitoring and related recordkeeping and reporting requirements.**

The permittee shall maintain a logbook of the visible emission, malodorous emission, and fugitive emission inspections/corrective action procedures in accordance with Site Level Requirement #025 and General Title V Requirement, Condition #024.

#### # 017 [25 Pa. Code §127.511]

##### **Monitoring and related recordkeeping and reporting requirements.**

The emissions, fuel usage records, fuel analysis reports, and maintenance records for the entire facility, shall be updated on a monthly basis. Emissions and fuel usage records shall be calculated and maintained on a 12-month rolling sum. All recordkeeping shall be completed in accordance with General Title V Requirement #024.

#### # 018 [25 Pa. Code §135.5]

##### **Recordkeeping**

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

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

### V. REPORTING REQUIREMENTS.

#### # 019 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

The company, within one hour of discovering an occurrence, shall notify the Department, 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. A written report shall be submitted to the Department within five 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.

#### # 020 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

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

#### # 021 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**



## SECTION C. Site Level Requirements

(a) The permittee shall report malfunctions 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. Malfunctions that are not resulting in, or potentially resulting in, air contaminant emissions in excess of an applicable air contaminant emission limitation and/or are not resulting in, or potentially resulting in, noncompliance with any condition contained herein do not have to be reported. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(b) Failures that are caused in part by poor maintenance or careless operation shall be reported as excess emissions or deviations from the requirements herein.

(c) Any malfunction that poses an imminent danger to the public health, safety, welfare, or environment shall be reported by telephone to the Department and the County Emergency Management Agency immediately after the discovery of an incident. The owner or operator shall submit a written report of instances of such malfunctions to the Department within three (3) business days of the telephone report.

(d) Any malfunction, excess emissions or deviation from the requirements herein that is not subject to the notice requirements of subsection (c) of this permit condition shall be reported to the Department within 24 hours of discovery. In notifying the Department, the permittee shall describe the following:

- (i) name and location of the facility;
- (ii) nature and cause of the malfunction or breakdown;
- (iii) time when the malfunction or breakdown was first observed;
- (iv) expected duration of excess emissions;
- (v) estimated rate of emissions; and
- (vi) corrective actions or preventative measures taken.

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

(f) Upon the request of the Department, the permittee shall submit a full written report to the Regional Air Program Manager within 15 days of the malfunction, excess emissions or deviation from the permit requirements.

### # 022 [25 Pa. Code §127.513]

#### Compliance certification.

The reporting period for the certificate of compliance required by condition #026 of Section B, shall be for the previous calendar year, and it shall be submitted within 60 days after the specified period but no later than March 1st.

### # 023 [25 Pa. Code §135.21]

#### Emission statements

The permittee shall submit emission reports on an annual basis. The emission reports shall be based on EPA's AP-42 emission factors or stack test data and annual fuel usage. The Department may require additional information to determine the identification and quantification of potential and actual air contaminant emissions.

## VI. WORK PRACTICE REQUIREMENTS.

### # 024 [25 Pa. Code §123.1]

#### Prohibition of certain fugitive emissions

The permittee shall take all reasonable actions to prevent particulate matter emitted from a source identified in Site 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.



## SECTION C. Site Level Requirements

(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.

### # 025 [25 Pa. Code §127.511]

#### **Monitoring and related recordkeeping and reporting requirements.**

The permittee shall inspect and record any indication of visible emissions, malodorous emissions, or fugitive emissions, on a weekly basis. The permittee shall take corrective action to eliminate any emissions and shall develop procedures to prevent any future occurrences.

If the facility becomes unmanned during the term of this permit, the company shall provide written notification to the Department and the monitoring shall be conducted on a monthly basis.

## VII. ADDITIONAL REQUIREMENTS.

### # 026 [25 Pa. Code §121.7]

#### **Prohibition of air pollution.**

The permittee may not permit the presence in the outdoor atmosphere of any form of contaminant, including, but not limited to, the discharging from stacks, chimneys, openings, buildings, structures, open fires, vehicles, processes or any other source of any smoke, soot, fly ash, dust, cinders, dirt, noxious or obnoxious acids, fumes, oxides, gases, vapors, odors, toxic, hazardous or radioactive substances, waste or other matter in a place, manner or concentration inimical or which may be inimical to public health, safety or welfare or which is or may be injurious to human, plant or animal life or to property or which unreasonably interferes with the comfortable enjoyment of life or property.

### # 027 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

The facility is considered a major emission source of Greenhouse Gases (GHG) as evidenced by emission calculations submitted with the Title V Operating Permit application submitted to the Department.

### # 028 [25 Pa. Code §129.14]

#### **Open burning operations**

(a) The permittee may not permit the open burning of material 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.

(b) Exceptions. The requirements above do not apply where the open burning operations result from a fire set for any of the following reasons:

(1) to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.

(2) to instruct personnel in fire fighting, when approved by the Department.

(3) for the prevention and control of disease or pests, when approved by the Department.

(4) in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.



## SECTION C. Site Level Requirements

(5) for the burning of domestic refuse, when the fire is on the premise of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure.

(6) for recreational or ceremonial purposes.

(7) solely for cooking food.

(c) This permit does not constitute authorization to burn solid waste pursuant to Section 610(3) of the Solid Waste management Act, 35 P.S. Section 6018.610(3), or any other provision of the Solid Waste Management Act.

**# 029 [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 Title V General Requirements).

## **IX. COMPLIANCE SCHEDULE**

No compliance milestones exist.

## **\*\*\* Permit Shield In Effect \*\*\***

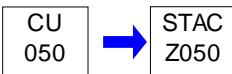


## SECTION D. Source Level Requirements

Source ID: 050

Source Name: (17) SPACE HEATERS

Source Capacity/Throughput:



### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

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



## SECTION D. Source Level Requirements

Source ID: 038

Source Name: #6 SOLAR MARS GAS TURBINE

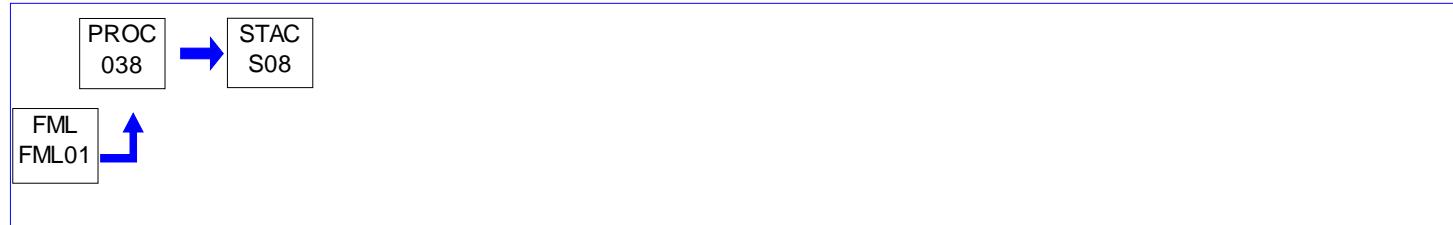
Source Capacity/Throughput: 135.700 MMBTU/HR

123.400 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 1

2

3



### I. RESTRICTIONS.

#### Emission Restriction(s).

**# 001 [25 Pa. Code §127.441]**

##### **Operating permit terms and conditions.**

NOx emissions from the Solar Mars 100S turbine (Unit 6) shall not exceed 42 ppm.

#### Fuel Restriction(s).

**# 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.333]**

##### **Subpart GG - Standards of Performance for Stationary Gas Turbines**

##### **Standard for sulfur dioxide.**

No owner or operator shall burn in any stationary gas turbine any fuel which contains sulfur in excess of 0.8 percent by weight.

#### Operation Hours Restriction(s).

**# 003 [25 Pa. Code §127.441]**

##### **Operating permit terms and conditions.**

The source shall be limited to 3120 hours of operation per year, based on a 12-month rolling sum, at no greater than 15,000 hp (ISO).

### II. TESTING REQUIREMENTS.

**# 004 [25 Pa. Code §127.441]**

##### **Operating permit terms and conditions.**

The company shall demonstrate compliance with the NOx emission limit for the source, on an annual basis, through the use of a portable gas analyzer approved by the Department. This test shall be performed during the November through March timeframe.

The company shall perform a stack test on the source every five (5) years. The stack test shall be performed within a one (1) year period prior to the date of the permit expiration. The stack test shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection to demonstrate compliance with the NOx emission limit. The stack test shall be performed while the source is being operated at its maximum rated capacity.

**# 005 [25 Pa. Code §127.511]**

##### **Monitoring and related recordkeeping and reporting requirements.**

(a) The permittee shall use Method 20 to determine the sulfur dioxide and oxygen concentrations.

(b) The permittee shall test the fuel gas for sulfur content, in accordance with the custom fuel monitoring plan approved by EPA for the facility. The permittee shall retain the EPA approved monitoring plan and testing procedure on-site and provide a



## SECTION D. Source Level Requirements

copy to the Department upon request.

(c) The analysis may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency.

### III. MONITORING REQUIREMENTS.

#### # 006 [25 Pa. Code §127.511]

##### **Monitoring and related recordkeeping and reporting requirements.**

The permittee shall monitor the sulfur content of the fuel being fired in the turbine in accordance with the fuel sulfur monitoring plan approved by EPA for the facility.

The permittee shall retain the EPA approved monitoring plan and testing procedure on-site and provide a copy to the Department upon request.

#### # 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.334]

##### **Subpart GG - Standards of Performance for Stationary Gas Turbines**

##### **Monitoring of operations.**

The fuel sulfur content of Source ID 038 shall be monitored in accordance with Subpart GG requirements.

### IV. RECORDKEEPING REQUIREMENTS.

#### # 008 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

[Authority for this condition is also derived from 25 Pa. Code, Section 129.95.]

The company shall maintain records of the hours of operation for the source. These records shall be updated on a monthly basis and the annual limit of 3120 hours shall be calculated based on a 12-month rolling sum.

The NOx emission limit shall be calculated based on a 12-month rolling sum. The emission from the source shall be updated monthly to demonstrate compliance with the annual limit.

The company shall maintain records of the annual, portable gas analyzer, NOx emission testing.

The company shall maintain records of the stack testing for NOx emissions that are performed every five (5) years.

The company shall maintain the results of the fuel sulfur testing.

All recordkeeping shall be in accordance with General Title V Requirement #024.

#### # 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.335]

##### **Subpart GG - Standards of Performance for Stationary Gas Turbines**

##### **Test methods and procedures.**

The permittee shall maintain records of test methods and procedures used to demonstrate compliance with New Source Performance Standards (NSPS) Subpart GG in accordance with General Title V Requirement Condition #024.

### V. REPORTING REQUIREMENTS.

#### # 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.333]

##### **Subpart GG - Standards of Performance for Stationary Gas Turbines**

##### **Standard for sulfur dioxide.**

This turbine is subject to Subpart GG of the Standards of Performance for New Stationary Sources and shall comply with all applications requirements of this Subpart. 40 CFR 60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forward to:

Director

Air, Toxics and Radiation Division



## SECTION D. Source Level Requirements

1650 Arch Street  
Philadelphia, PA 19103-2029

### VI. WORK PRACTICE REQUIREMENTS.

**# 011 [25 Pa. Code §127.441]**

#### **Operating permit terms and conditions.**

The company shall maintain and operate the source in accordance with good engineering practices.

### VII. ADDITIONAL REQUIREMENTS.

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

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



40-00002

TRANSCONTINENTAL GAS/BEAR CREEK STA 515



## SECTION D. Source Level Requirements

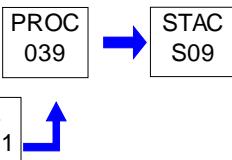
Source ID: 039

Source Name: #7 SOLAR MARS 100 GAS TURBINE

Source Capacity/Throughput: 125.950 MMBTU/HR

Conditions for this source occur in the following groups: 1

3



### 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 039 in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

##### # 002 [25 Pa. Code §127.441]

###### Operating permit terms and conditions.

Pursuant to the provision of 25 Pa. Code, Chapter 123, Section 123.41, the visible air contaminant from the turbine shall not be emitted in a manner such that the opacity of the emissions is equal to or greater than 20 % for a period or periods aggregating more than 3 minutes in any one hour; or equal to or greater than 60% at any time.

##### # 003 [25 Pa. Code §127.441]

###### Operating permit terms and conditions.

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

##### # 004 [25 Pa. Code §127.441]

###### Operating permit terms and conditions.

Pursuant to best available technology requirement of Chapter 127.12 (a)(5) the facility is subject to the following air contaminant emission limitations from the turbine during normal operation.

CO - 1-hour average - 25 PPMVD @ 15 % O<sub>2</sub>

NO<sub>x</sub> - 1-hour average - 15 PPMVD @15% O<sub>2</sub>

Normal operation defined as operation at temperatures of 0 deg F or higher and turbine load of 50 to 100% of max load.

##### # 005 [25 Pa. Code §127.441]

###### Operating permit terms and conditions.

Pursuant to best available technology requirement of Chapter 127.12 (a)(5) the facility is subject to the following air contaminant emission limitations from the turbine during normal operation.

VOC- 1.19 lb/hr

Formaldehyde- 0.00071 lb/mmbtu

Normal operation defined as operation at temperatures of 0 deg F or higher and turbine load of 50 to 100% of max load.

##### # 006 [25 Pa. Code §127.441]

###### Operating permit terms and conditions.

Whenever the turbine is operating under ambient sub-zero temperature conditions, the allowable PPMVD emission limits



## SECTION D. Source Level Requirements

listed in conditions of this permit do not apply for NOX, CO, & VOC emissions. The company shall meet following emission limitations during operation of turbine under ambient sub-zero temperature conditions.

NOX- 120 PPMVD @ 15 % O<sub>2</sub>, 59.9 lb/hr

CO- 150 PPMVD @ 15 % O<sub>2</sub>, 45.6 lb/hr

VOC - 75 PPMVD @ 15 % O<sub>2</sub>, 13 lb/hr

### # 007 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

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

NOx - 5.1 lb/each event

CO- 447.6 lb/each event

VOC - 6.38 lb/each event.

Event is defined as 1 startup or 1 shut down. Each startup or shutdown period shall not be more than 30 minutes.

### # 008 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

Emissions from the turbine during normal operating conditions, operating under sub-zero temperature conditions, start-ups, and shutdowns shall not exceed the following limits during any consecutive 12-month rolling period:

Pollutant Emission Limits in tons per year (12 month rolling sum) for the turbine

NOx: 33.2

CO: 98.0

VOC: 5.2

### # 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4300]

#### Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

##### What is the purpose of this subpart?

The facility is subject to 40 CFR Part 60 Subpart KKKK NOx-1-hour average - 25 PPMVD @ 15% O<sub>2</sub> emission limit, however Pursuant to best available technology requirement of Chapter 127.12 (a)(5) requires the following air contaminant emission limitations from the turbine during normal operation.

NOX - 1-hour average - 15 PPMVD @ 15 % O<sub>2</sub>

Normal operation defined as operation at temperatures of 0 deg F or higher and turbine load of 50 to 100% of max load.

#### Fuel Restriction(s).

### # 010 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The combustion turbines shall combust only pipeline quality natural gas as a fuel.

### # 011 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The facility will burn only pipeline natural gas, which results in De minimis particulate emissions.

### # 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4300]

#### Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

##### What is the purpose of this subpart?

Fuel data shall shows that the sulfur content of the fuel does not exceed 26 ng SO<sub>2</sub>/J (0.060 lb SO<sub>2</sub>/MMBtu) heat input.



## SECTION D. Source Level Requirements

### II. TESTING REQUIREMENTS.

#### # 013 [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 source(s) 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 rate(s). Such testing shall be conducted in accordance with the revisions of Chapter 139 of the Rules and Regulations Environmental Protection, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the company that testing is required.

#### # 014 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

Pursuant to the requirement of 40 CFR Part 60, subpart KKKK, the company shall perform annual performance tests in accordance with §60.4400 to demonstrate continuous compliance for NOX emission. If the NOX emission result from the performance test is less than or equal to 75 percent of the NOX emission limit for the turbine, the company may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NOX emission limit for the turbine, the company must resume annual performance tests.

#### # 015 [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 operating permit, 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 operating permit, 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 operating permit, then another stack test shall be performed to determine compliance. Within 120 days of the permittee 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 practical. Failure of the second test to demonstrate compliance with the limits in the operating permit, 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 operating permit may be grounds for immediate revocation of the operating permit to operate the affected source.

### III. MONITORING REQUIREMENTS.

#### # 016 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

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

#### # 017 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

[This condition is also derived from 40 CFR 60.4365(b).]

The company shall monitor the sulfur content of the natural gas used in the turbines by either:

a) 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 SO<sub>2</sub>/J (0.060 lb SO<sub>2</sub>/MMBtu) heat input.



## SECTION D. Source Level Requirements

b) Representative fuel sampling data which shows that the sulfur content of the fuel does not exceed 26 ng SO<sub>2</sub>/J (0.060 lb SO<sub>2</sub>/MMBtu) heat input. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of 40 CFR Part 75 Appendix D is required.

**# 018 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

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

## IV. RECORDKEEPING REQUIREMENTS.

**# 019 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[This condition is also derived from 40 CFR 60.7.]

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 operating permit. 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 operating permit. 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.

2. The company shall maintain following records:

(a) The records shall provide sufficient data to clearly demonstrate that the requirements of operating permit conditions are met.

(b) Monthly fuel consumption rate and 12-month rolling total fuel consumption, total heat input for the combustion turbine.

(c) The supporting calculations used to verify the sulfur oxides, and volatile organic compounds emission limitations.

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

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

**# 020 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The Owner or Operator shall record each start-up and shutdown, including date and times of each event, for the combustion turbine.

## V. REPORTING REQUIREMENTS.

**# 021 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

1. The company shall immediately notify the Department of any malfunction of, or damage to, source(s) or associated air cleaning device(s) which result in, or may possibly be results in, the emissions in excess of the limitations specified in this Operating Permit or any applicable Department Rule or Regulation.

2. Any changes in the location of the aforementioned source, or any changes in the process or control equipment would be considered a modification and would require the submittal of an amended application for plan approval in accordance with the provisions of 25 Pa. Code 127.11 and 127.12.

3. This source is subject to Subpart KKKK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR §60.4 requires submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded



## SECTION D. Source Level Requirements

to:

Associate Director  
Office of Air Enforcement and Compliance Assistance  
US EPA, Region III  
Mail Code 3AP20  
1650 Arch Street  
Philadelphia, PA 19103

4. Any notification as a result of any condition herein should be directed to:

Mark J Wejkszner  
Air Quality Program Manager  
Department of Environmental Protection  
2 Public Square  
Wilkes-Barre, Pa 18701-1915

**# 022 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The Owner or Operator, within one hour of discovery, shall notify the Department at (570) 826-2511, of any malfunction of the source(s) or associated air cleaning device(s) which results 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 regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection. A written report shall be submitted to the Department within five working days following the incident describing the malfunctions and corrective actions taken. The Department may take enforcement actions for any violations of the applicable standards.

**# 023 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) The permittee shall submit annual reports to the Department on the following information for the source:

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

(2) The number of hours operated on a monthly basis.

(3) The amount of fuel consumed per month.

**# 024 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

40 CFR 63.6145 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), 63.8(f)(4), and 63.9(b) and (h) that apply to you by the dates specified.

(b) N/A

(c) As specified in §63.9(b), if you start up your new or reconstructed stationary combustion turbine on or after March 5, 2004, you must submit an Initial Notification not later than 120 calendar days after you become subject to this subpart.

(d) If you are required to submit an Initial Notification but are otherwise not affected by the emission limitation requirements of this subpart, in accordance with §63.6090(b), your notification must include the information in §63.9(b)(2)(i) through (v) and a statement that your new or reconstructed stationary combustion turbine has no additional emission limitation requirements and must explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary combustion turbine).



## SECTION D. Source Level Requirements

(e) N/A

(f) N/A

### # 025 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4375]

#### Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

##### What reports must I submit?

- (a) For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content under this subpart, you must submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction.
- (b) For each affected unit that performs annual performance tests in accordance with §60.4340(a), you must submit a written report of the results of each performance test before the close of business on the 60th day following the completion of the performance test.

## VI. WORK PRACTICE REQUIREMENTS.

### # 026 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

1. The aforementioned source(s) may only be operated as long as the associated air pollution control devices are operated and maintained in accordance with the specifications set forth in the respective plan approval(s), and the application(s) submitted for said plan approval(s) (as approved by the Department), and in accordance with any conditions set forth herein.
2. The company shall perform adjustment and/or tune-up on the combustion process as per manufacturer's specifications. The source shall be operated and maintained in accordance with the manufacturers specification and with good air pollution control practices.
3. The company shall maintain and operates the air pollution control equipment and source in accordance with good engineering practice.

### # 027 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

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

## VII. ADDITIONAL REQUIREMENTS.

### # 028 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The source is subject to the New Source Performance Standards, 40 CFR Part 60, Subpart KKKK and shall comply with all applicable requirements as specified in 40 CFR Part 60, Subpart KKKK.

### # 029 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The combustion turbine shall be operated as per manufacturer's specifications.

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



## SECTION D. Source Level Requirements

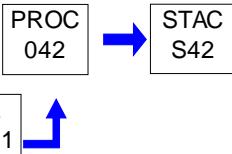
Source ID: 042

Source Name: WAUKESHA EMERGENCY GENERATOR

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 2

3



### 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 this source in excess of .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 a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

#### Fuel Restriction(s).

##### # 003 [25 Pa. Code §127.512]

###### Operating permit terms and conditions.

The permittee shall use only pipeline quality natural gas as fuel in this source.

#### Operation Hours Restriction(s).

##### # 004 [25 Pa. Code §127.512]

###### Operating permit terms and conditions.

[Authority from this condition is also derived from 25 Pa. Code, Section 129.93.]

The source is limited to less than 500 hours of operation in a consecutive 12-month period, calculated on a 12-month rolling sum.

### II. TESTING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

##### # 005 [25 Pa. Code §127.512]

###### Operating permit terms and conditions.



## SECTION D. Source Level Requirements

[Authority for this condition is also derived from 25 Pa. Code, Section 129.95.]

The company shall maintain records of the hours of operation for the source. These records shall be updated on a monthly basis and the annual limit of less than 500 hours per 12-month period shall be calculated on a 12-month rolling sum.

The company shall maintain records that demonstrate the installation, maintenance and operation of the source is performed in accordance with manufacturer's specifications and good air pollution control practices. The records shall be maintained in accordance with General Title V Requirement #024.

## V. REPORTING REQUIREMENTS.

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

## VI. WORK PRACTICE REQUIREMENTS.

**# 006 [25 Pa. Code §127.512]**

### Operating permit terms and conditions.

[Authority from this condition is also derived from 25 Pa. Code, Section 129.93.]

RACT for the source shall be the installation, maintenance, and operation of the source in accordance with manufacturer's specifications. The source shall be operated and maintained in accordance with good air pollution control practices.

## VII. ADDITIONAL REQUIREMENTS.

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

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

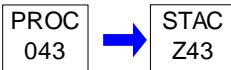


## SECTION D. Source Level Requirements

Source ID: 043

Source Name: PARTS WASHER/DEGREASER

Source Capacity/Throughput:



### 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 any process in such a manner that the concentration of particulate matter in the effluent gas exceeds .02 grains per dry standard cubic foot.

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

# 002 [25 Pa. Code §129.63]

##### Degreasing operations

Cold cleaning machines. Except for those subject to the Federal National emissions standards for hazardous air pollutants (NESHAP) for halogenated solvent cleaners under 40 CFR Part 63 (relating to National emission standards for hazardous air pollutants for source categories), this subsection applies to cold cleaning machines that use 2 gallons or more of solvents containing greater than 5% VOC content by weight for the cleaning of metal parts.

- (1) Immersion cold cleaning machines shall have a freeboard ratio of 0.50 or greater.
- (2) Immersion cold cleaning machines and remote reservoir cold cleaning machines shall:
  - (i) Have a permanent, conspicuous label summarizing the operating requirements in paragraph (3). In addition, the label shall include the following discretionary good operating practices:
    - (A) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.



## SECTION D. Source Level Requirements

(B) When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.

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

(ii) Be equipped with a cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent. For remote reservoir cold cleaning machines which drain directly into the solvent storage reservoir, a perforated drain with a diameter of not more than 6 inches shall constitute an acceptable cover.

(3) Cold cleaning machines shall be operated in accordance with the following procedures:

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

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

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

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

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

(4) After December 22, 2002, a person may not use, sell or offer for sale for use in a cold cleaning machine any solvent with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater and containing greater than 5% VOC by weight, measured at 20°C (68°F) containing VOCs.

(5) On and after December 22, 2002, a person who sells or offers for sale any solvent containing VOCs for use in a cold cleaning machine shall provide, to the purchaser, the following written information:

(i) The name and address of the solvent supplier.

(ii) The type of solvent including the product or vendor identification number.

(iii) The vapor pressure of the solvent measured in mm hg at 20°C (68°F).

(6) A person who operates a cold cleaning machine shall maintain for at least 2 years and shall provide to the Department, on request, the information specified in paragraph (5). An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

(7) Paragraph (4) does not apply:

(i) To cold cleaning machines used in extreme cleaning service.

(ii) If the owner or operator of the cold cleaning machine demonstrates, and the Department approves in writing, that compliance with paragraph (4) will result in unsafe operating conditions.

(iii) To immersion cold cleaning machines with a freeboard ratio equal to or greater than 0.75.

## VII. ADDITIONAL REQUIREMENTS.

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



40-00002

TRANSCONTINENTAL GAS/BEAR CREEK STA 515



## SECTION D. Source Level Requirements

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



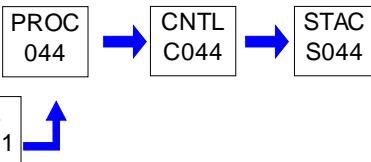
## SECTION D. Source Level Requirements

Source ID: 044

Source Name: #8 SOLAR MARS 100 GAS TURBINE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 3



### I. RESTRICTIONS.

#### Emission Restriction(s).

##### # 001 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

Pursuant to the provision of 25 Pa Code, Chapter 123, Section 123.41, the visible air contaminant from the turbine shall not be emitted in a manner such that the opacity of the emissions is equal to or greater than 20 % for a period or periods aggregating more than 3 minutes in any one hour; or equal to or greater than 60% at any time.

##### # 002 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

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

##### # 003 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

(a) Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, Source ID 044 shall not emit into the outdoor atmosphere the below listed air contaminant emissions in a manner that the concentration of each contaminant in the exhaust of the natural gas-fired turbine associated with Source ID 044 is in excess of the following limits:

CO - 2 PPMVD @ 15 % O<sub>2</sub>

VOC - 3 PPMVD @15% O<sub>2</sub>

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

NOx – 15 PPMVD @15% O<sub>2</sub>

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

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

##### # 004 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

Pursuant to best available technology requirement of Chapter 127.12 (a)(5) the facility is subject to the following air contaminant emission limitations from the turbine during normal operation.

VOC- 0.84 lb/hr

Formaldehyde- 0.0007 lb/mmbtu

Normal operation defined as operation at temperatures of 0 deg F or higher and turbine load of 50 to 100% of max load.



## SECTION D. Source Level Requirements

### # 005 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

Emissions from the turbine during normal operating conditions, operating under sub zero temperature conditions, start-ups, and shutdowns shall not exceed the following limits during any consecutive 12-month rolling period:

Pollutant Emission Limits in tons per year (12 month rolling sum) for the turbine

NOx 32.0

CO 23.6

VOC 2.2 tons of volatile organic compounds (including formaldehyde)

#### Fuel Restriction(s).

### # 006 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The combustion turbines shall combust only pipeline quality natural gas as a fuel.

### # 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4300]

#### Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

#### What is the purpose of this subpart?

Fuel data shall shows that the sulfur content of the fuel does not exceed 26 ng SO2/J (0.060 lb SO2/MMBtu) heat input.

## II. TESTING REQUIREMENTS.

### # 008 [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 to demonstrate compliance with the emission limitations set by the conditions above for CO and VOC emissions. Testing shall also be conducted EPA reference method testing programs to determine the emission rates of formaldehyde, particulate matter, total PM10 (filterable and condensable) and total PM2.5 (filterable and condensable) while the turbine is operating at plus or minus 10 percent of peak process load, or at other load as approved by the Department. Testing shall also be performed to demonstrate compliance with the NOx emission limitation set by the 40 CFR part 60, Subpart KKKK conditions above. 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 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



## SECTION D. Source Level Requirements

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

### # 009 [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 source(s) 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 rate(s). Such testing shall be conducted in accordance with the revisions of Chapter 139 of the Rules and Regulations Environmental Protection, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the company that testing is required.

### # 010 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

Pursuant to the requirement of 40 CFR Part 60, subpart KKKK, the company shall perform annual performance tests in accordance with §60.4400 to demonstrate continuous compliance for NOX emission. If the NOX emission result from the performance test is less than or equal to 75 percent of the NOX emission limit for the turbine, the company may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NOX emission limit for the turbine, the company must resume annual performance tests.

Additionally the permittee shall conduct EPA reference method testing programs every five (5) years or once (1) during the term of the permit to determine the emission rates of nitrogen oxides, carbon monoxide, volatile organic compounds, and formaldehyde while the turbine is operating at plus or minus 10 percent of peak process load, or at other load as approved by the Department.

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

### # 011 [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 operating permit, 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 operating permit, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee 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 operating permit, 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 operating permit may be grounds for immediate revocation of the operating permit to operate the affected source.

### # 012 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

The permittee shall conduct stack test on the turbine ( Source ID 044) once (1) during the term of the Title V Permit to demonstrate compliance with the emission limits established for the turbine.



## SECTION D. Source Level Requirements

Testing shall be conducted to demonstrate compliance for the following air contaminants:

nitrogen oxides  
carbon monoxide  
volatile organic compounds  
formaldehyde

Testing shall be conducted while the turbine is operating at plus or minus 10 percent of peak process load, or at other load as approved by the Department.

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

### **# 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4375]**

#### **Subpart KKKK - Standards of Performance for Stationary Combustion Turbines**

##### **What reports must I submit?**

(a) For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content under this subpart, you must submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction.

(b) For each affected unit that performs annual performance tests in accordance with §60.4340(a), you must submit a written report of the results of each performance test before the close of business on the 60th day following the completion of the performance test.

## **III. MONITORING REQUIREMENTS.**

### **# 014 [25 Pa. Code §127.441]**

#### **Operating permit terms and conditions.**

Pursuant to the Best Available Technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the oxidation catalyst (ID C044) shall be equipped with instrumentation to continuously monitor the catalyst bed inlet and outlet temperatures as well as the pressure differential across the catalyst bed to verify the temperature and pressure differential parameters are within the acceptable ranges established during performance testing.

### **# 015 [25 Pa. Code §127.441]**

#### **Operating permit terms and conditions.**

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

### **# 016 [25 Pa. Code §127.441]**

#### **Operating permit terms and conditions.**

[This condition is also derived from 40 CFR 60.4365 (b).]

The company shall monitor the sulfur content of the natural gas used in the turbines by either:

- a) 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 SO<sub>2</sub>/J (0.060 lb SO<sub>2</sub>/MMBtu) heat input.
- b) Representative fuel sampling data which shows that the sulfur content of the fuel does not exceed 26 ng SO<sub>2</sub>/J (0.060 lb SO<sub>2</sub>/MMBtu) heat input. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of 40 CFR Part 75 Appendix D is required.

### **# 017 [25 Pa. Code §127.441]**

#### **Operating permit terms and conditions.**

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



## SECTION D. Source Level Requirements

### IV. RECORDKEEPING REQUIREMENTS.

#### # 018 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

[This condition is also derived from 40 CFR 60.7.]

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 operating permit. 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 operating permit. 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.

2. The company shall maintain following records:

(a) The records shall provide sufficient data to clearly demonstrate that the requirements of operating permit conditions are met.

(b) Monthly fuel consumption rate and 12-month rolling total fuel consumption, total heat input for the combustion turbine.

(c) The supporting calculations used to verify the sulfur oxides and volatile organic compounds emission limitations.

(d) The emission of nitrogen oxide and carbon monoxide on a monthly basis and calculations to verify compliance with the nitrogen oxide, carbon monoxide emission limitations in any 12 consecutive month period. The monthly calculations shall begin once the turbine commences operation.

(e) The number of start-ups and shut-downs to include date and times (duration) of each event on a monthly basis.

(f) These records shall be kept for a minimum of 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 Owner or Operator shall record each start-up and shutdown, including date and times of each event, for the combustion turbine.

Start-up and shutdown events are defined as a 30 minute time period (duration) and shall not exceed 30 minutes per event.

Additionally the Owner or Operator shall monitor the ambient temperature and record the start time and end time in which the turbine is operating at subzero temperatures.

### V. REPORTING REQUIREMENTS.

#### # 020 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

(a) The permittee shall submit annual reports to the Department on the following information for the source:

(1) The emission of carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>), GHGs and VOCs on a monthly basis and calculations to verify compliance with the carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>), and VOC emission limitations in any 12 consecutive month period.

(2) The number of hours operated on a monthly basis.

(3) The amount of fuel consumed per month.

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



## SECTION D. Source Level Requirements

### # 021 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

1. The company shall immediately notify the Department of any malfunction of, or damage to, source(s) or associated air cleaning device(s) which result in, or may possibly be results in, the emissions in excess of the limitations specified in this operating permit or any applicable Department Rule or Regulation.
2. Any changes in the location of the aforementioned source, or any changes in the process or control equipment would be considered a modification and would require the submittal of an amended application for plan approval in accordance with the provisions of 25 PA Code 127.11 and 127.12.
3. This source is subject to Subpart KKKK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR §60.4 requires submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Associate Director  
Office of Air Enforcement and Compliance Assistance  
US EPA, Region III  
Mail Code 3AP20  
1650 Arch Street  
Philadelphia, PA 19103

4. Any notification as a result of any condition herein should be directed to:

Mark J Wejkszner  
Air Quality Program Manager  
Department of Environmental Protection  
2 Public Square  
Wilkes-Barre, Pa 18701-1915

### # 022 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

The Owner or Operator, within one hour of discovery, shall notify the Department at (570) 826-2511, of any malfunction of the source(s) or associated air cleaning device(s) which results 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 regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection. A written report shall be submitted to the Department within five working days following the incident describing the malfunctions and corrective actions taken. The Department may take enforcement actions for any violations of the applicable standards.

## VI. WORK PRACTICE REQUIREMENTS.

### # 023 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

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

### # 024 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

1. The aforementioned source(s) may only be operated as long as the associated air pollution control devices are operated and maintained in accordance with the specifications set forth in the respective plan approval(s), and the application(s) submitted for said plan approval(s) (as approved by the Department), and in accordance with any conditions set forth herein.
2. 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.
3. The company shall maintain and operate the air pollution control equipment and source in accordance with good



## SECTION D. Source Level Requirements

engineering practice.

### VII. ADDITIONAL REQUIREMENTS.

**# 025 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The source is subject to the New Source Performance Standards, 40 CFR Part 60, Subpart KKKK and shall comply with all applicable requirements as specified in 40 CFR Part 60, Subpart KKKK.

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



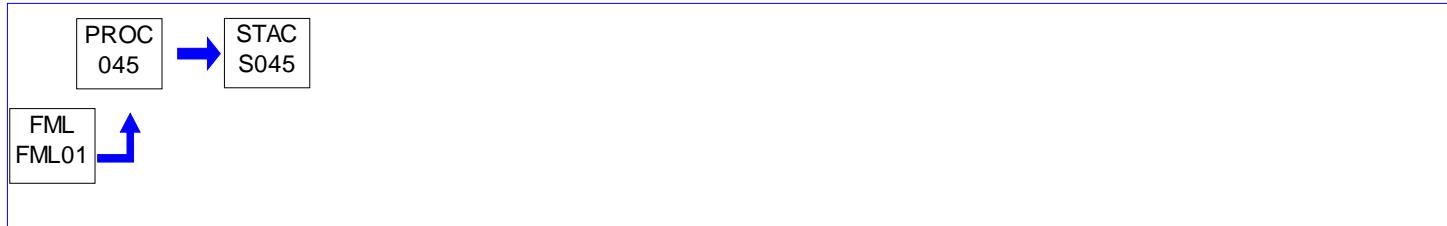
## SECTION D. Source Level Requirements

Source ID: 045

Source Name: WAUKESHA P48GL, EMERGENCY GENERATOR (#2)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 3



### I. RESTRICTIONS.

#### Emission Restriction(s).

##### # 001 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code §§127.1, 127.12 and 40 CFR § 60.4233(e).]

This internal combustion engines shall be equipped and operated with air cleaning devices that reduce emissions to levels equal to or less than:

- a. NOx at rated bhp and operating at rated speed - 2.0 grams per bhp-hour (gms/bhp-hr);
- b. VOC at rated bhp and operating at rated speed - 1.0 gms/bhp-hr;
- c. CO at rated bhp and operating at rated speed - 4.0 gms/bhp-hr;
- d. At operating conditions less than rated capacity, internal combustion engines shall, on a pounds-per-hour basis, emit no more than they emit at rated bhp and rated speed.
  
- e. Visible emissions in excess of the following limitations:
  - A. Equal to or greater than 10% for a period or periods aggregating more than 3 minutes in any one hour.
  - B. Equal to or greater than 30% at any time.

These emission limitations shall apply at all times except during periods of start-up and shut-down, provided, however, that the duration of start-up and shut-down do not exceed one hour per occurrence.

##### # 002 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

NOx emissions from the IC engine shall be less than 100 lbs/hr, 1000 lbs/day, 2.75 tons per ozone season and 6.6 tons per year on a 12-month rolling basis.

##### # 003 [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?

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.

#### Fuel Restriction(s).

##### # 004 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

The permittee shall use only natural gas as a fuel for emergency generator set.



## SECTION D. Source Level Requirements

### II. TESTING REQUIREMENTS.

#### # 005 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

The Department reserves the right to require verification of emission rates from emergency generator set, which may include source testing, in accordance with applicable provisions of 25 Pa. Code Chapter 139 (relating to sampling and testing) or portable exhaust gas analyzer testing approved by the Department.

#### # 006 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

Compliance with the emission limitation shall be demonstrated by vendor guarantees, however, when the NOx emissions from the facility are estimated to be equal to or greater than ninety (90) tons per year, the Department reserves the right to require an additional verification of emission rates, which may include source testing.

### III. MONITORING REQUIREMENTS.

#### # 007 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

The source shall be equipped with a non-resettable meter for hours of operation prior to startup and the meter shall be operated at all times Source is in operation.

### IV. RECORDKEEPING REQUIREMENTS.

#### # 008 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

The permittee shall maintain comprehensive, accurate records which, at a minimum, shall include:

1. The number of hours per 12 month rolling sum that each engine or piece of equipment operated.
2. The date, time, and duration of each start-up and shut-down of the engine.

#### # 009 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

(a) The permittee shall keep records of the number of hours that this source operates on a monthly basis to verify compliance with the operation hours restriction in any 12 consecutive month period.

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

### V. REPORTING REQUIREMENTS.

#### # 010 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

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

EPA in electronic form to the following e-mail address: R3\_APD\_Permits@epa.gov.

or

EPA copies should be sent to the Associate Director  
Office of Air Enforcement and Compliance Assistance  
3AP20  
1650 Arch Street  
Philadelphia, PA 19103



## SECTION D. Source Level Requirements

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

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

### VI. WORK PRACTICE REQUIREMENTS.

**# 011 [25 Pa. Code §127.441]**

#### **Operating permit terms and conditions.**

The company shall maintain and operate the emergency generator in accordance with the manufacturer's specification and with good engineering practice.

### VII. ADDITIONAL REQUIREMENTS.

**# 012 [25 Pa. Code §127.441]**

#### **Operating permit terms and conditions.**

The source is subject to the New Source Performance Standards, 40 CFR Part 60, Subpart JJJJ and shall comply with all applicable requirements as specified in 40 CFR Part 60, Subpart JJJJ.

**# 013 [25 Pa. Code §127.441]**

#### **Operating permit terms and conditions.**

The source is subject to the Maximum Achievable Control Technology (MACT), 40 CFR Part 63, Subpart ZZZZ and shall comply with all applicable requirements as specified in 40 CFR Part 63, Subpart ZZZZ.

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



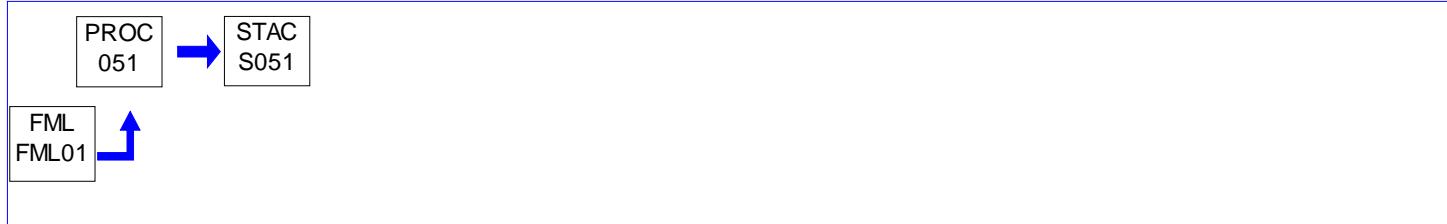
## SECTION D. Source Level Requirements

Source ID: 051

Source Name: #9 SOLAR TITAN 250 GAS TURBINE W/SOLONOX

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 4



### I. RESTRICTIONS.

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

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



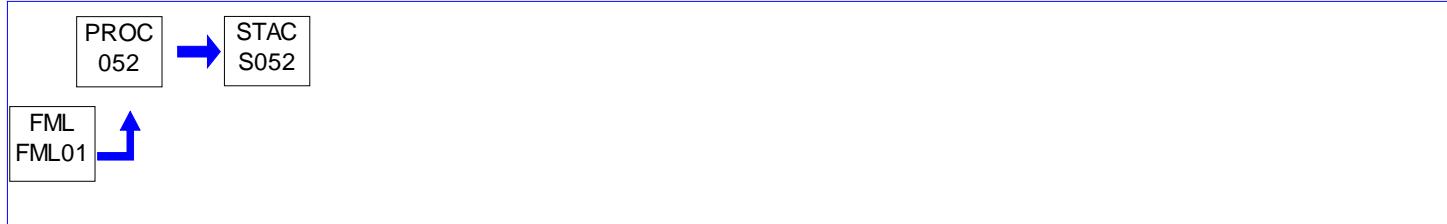
## SECTION D. Source Level Requirements

Source ID: 052

Source Name: #10 SOLAR TITAN 250 GAS TURBINE W/SOLONOX

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 4



### I. RESTRICTIONS.

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

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



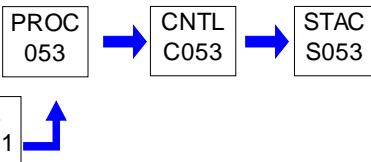
## SECTION D. Source Level Requirements

Source ID: 053

Source Name: AUXILIARY GENERATOR #1

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 5



### I. RESTRICTIONS.

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

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



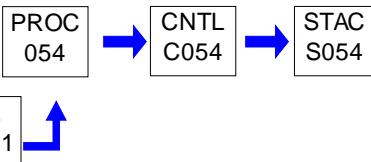
## SECTION D. Source Level Requirements

Source ID: 054

Source Name: AUXILIARY GENERATOR #2

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 5



### I. RESTRICTIONS.

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

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



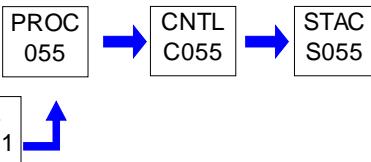
## SECTION D. Source Level Requirements

Source ID: 055

Source Name: AUXILIARY GENERATOR #3

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 5



### I. RESTRICTIONS.

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

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

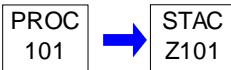


## SECTION D. Source Level Requirements

Source ID: 101

Source Name: FUGITIVE VOC EMISSIONS FROM VALVES AND FLANGES

Source Capacity/Throughput:



### I. RESTRICTIONS.

#### Emission Restriction(s).

**# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5397a]**  
**Subpart OOOOa - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015**

**What fugitive emissions GHG and VOC standards apply to the affected facility which is the collection of fugitive emissions**

For each affected facility under § 60.5365a(i) and (j), you must reduce GHG (in the form of a limitation on emissions of methane) and VOC emissions by complying with the requirements of paragraphs (a) through (j) of this section. The requirements in this section are independent of the closed vent system and cover requirements in § 60.5411a. Alternatively, you may comply with the requirements of § 60.5398b, including the notification, recordkeeping, and reporting requirements outlined in § 60.5424b. For the purpose of this subpart, compliance with the requirements in § 60.5398b will be deemed compliance with this section. When complying with § 60.5398b, the definitions in § 60.5430b shall apply for those activities conducted under § 60.5398b.

(a) You must monitor all fugitive emission components, as defined in § 60.5430a, in accordance with paragraphs (b) through (g) of this section. You must repair all sources of fugitive emissions in accordance with paragraph (h) of this section. You must keep records in accordance with paragraph (i) of this section and report in accordance with paragraph (j) of this section. For purposes of this section, fugitive emissions are defined as any visible emission from a fugitive emissions component observed using optical gas imaging or an instrument reading of 500 parts per million (ppm) or greater using Method 21 of appendix A-7 to this part.

(b) You must develop an emissions monitoring plan that covers the collection of fugitive emissions components at well sites and compressor stations within each company-defined area in accordance with paragraphs (c) and (d) of this section.

(c) Fugitive emissions monitoring plans must include the elements specified in paragraphs (c)(1) through (8) of this section, at a minimum.

(1) Frequency for conducting surveys. Surveys must be conducted at least as frequently as required by paragraphs (f) and (g) of this section.

(2) Technique for determining fugitive emissions (i.e., Method 21 of appendix A-7 to this part or optical gas imaging meeting the requirements in paragraphs (c)(7)(i) through (vii) of this section).

(3) Manufacturer and model number of fugitive emissions detection equipment to be used.

(4) Procedures and timeframes for identifying and repairing fugitive emissions components from which fugitive emissions are detected, including timeframes for fugitive emission components that are unsafe to repair. Your repair schedule must meet the requirements of paragraph (h) of this section at a minimum.

(5) Procedures and timeframes for verifying fugitive emission component repairs.

(6) Records that will be kept and the length of time records will be kept.

(7) If you are using optical gas imaging, your plan must also include the elements specified in paragraphs (c)(7)(i) through (vii) of this section.

(i) Verification that your optical gas imaging equipment meets the specifications of paragraphs (c)(7)(i)(A) and (B) of this section. This verification is an initial verification, and may either be performed by the facility, by the manufacturer, or by a third



## SECTION D. Source Level Requirements

party. For the purposes of complying with the fugitive emissions monitoring program with optical gas imaging, a fugitive emission is defined as any visible emissions observed using optical gas imaging.

(A) Your optical gas imaging equipment must be capable of imaging gases in the spectral range for the compound of highest concentration in the potential fugitive emissions.

(B) Your optical gas imaging equipment must be capable of imaging a gas that is half methane, half propane at a concentration of 10,000 ppm at a flow rate of =60g/hr from a quarter inch diameter orifice.

(ii) Procedure for a daily verification check.

(iii) Procedure for determining the operator's maximum viewing distance from the equipment and how the operator will ensure that this distance is maintained.

(iv) Procedure for determining maximum wind speed during which monitoring can be performed and how the operator will ensure monitoring occurs only at wind speeds below this threshold.

(v) Procedures for conducting surveys, including the items specified in paragraphs (c)(7)(v)(A) through (C) of this section.

(A) How the operator will ensure an adequate thermal background is present in order to view potential fugitive emissions.

(B) How the operator will deal with adverse monitoring conditions, such as wind.

(C) How the operator will deal with interferences (e.g., steam).

(vi) Training and experience needed prior to performing surveys.

(vii) Procedures for calibration and maintenance. At a minimum, procedures must comply with those recommended by the manufacturer.

(8) If you are using Method 21 of appendix A-7 of this part, your plan must also include the elements specified in paragraphs (c)(8)(i) through (iii) of this section. For the purposes of complying with the fugitive emissions monitoring program using Method 21 of appendix A-7 of this part a fugitive emission is defined as an instrument reading of 500 ppm or greater.

(i) Verification that your monitoring equipment meets the requirements specified in Section 6.0 of Method 21 at 40 CFR part 60, appendix A-7. For purposes of instrument capability, the fugitive emissions definition shall be 500 ppm or greater methane using a FID-based instrument. If you wish to use an analyzer other than a FID-based instrument, you must develop a site-specific fugitive emission definition that would be equivalent to 500 ppm methane using a FID-based instrument (e.g., 10.6 eV PID with a specified isobutylene concentration as the fugitive emission definition would provide equivalent response to your compound of interest).

(ii) Procedures for conducting surveys. At a minimum, the procedures shall ensure that the surveys comply with the relevant sections of Method 21 at 40 CFR part 60, appendix A-7, including Section 8.3.1.

(iii) Procedures for calibration. The instrument must be calibrated before use each day of its use by the procedures specified in Method 21 of appendix A-7 of this part. At a minimum, you must also conduct precision tests at the interval specified in Method 21 of appendix A-7 of this part, Section 8.1.2, and a calibration drift assessment at the end of each monitoring day. The calibration drift assessment must be conducted as specified in paragraph (c)(8)(iii)(A) of this section. Corrective action for drift assessments is specified in paragraphs (c)(8)(iii)(B) and (C) of this section.

(A) Check the instrument using the same calibration gas that was used to calibrate the instrument before use. Follow the procedures specified in Method 21 of appendix A-7 of this part, Section 10.1, except do not adjust the meter readout to correspond to the calibration gas value. If multiple scales are used, record the instrument reading for each scale used. Divide the arithmetic difference of the initial and post-test calibration response by the corresponding calibration gas value for each scale and multiply by 100 to express the calibration drift as a percentage.



## SECTION D. Source Level Requirements

(B) If a calibration drift assessment shows a negative drift of more than 10 percent, then all equipment with instrument readings between the fugitive emission definition multiplied by (100 minus the percent of negative drift/divided by 100) and the fugitive emission definition that was monitored since the last calibration must be re-monitored.

(C) If any calibration drift assessment shows a positive drift of more than 10 percent from the initial calibration value, then, at the owner/operator's discretion, all equipment with instrument readings above the fugitive emission definition and below the fugitive emission definition multiplied by (100 plus the percent of positive drift/divided by 100) monitored since the last calibration may be re-monitored.

(d) Each fugitive emissions monitoring plan must include the elements specified in paragraphs (d)(1) through (3) of this section, at a minimum, as applicable.

(1) If you are using optical gas imaging, your plan must include procedures to ensure that all fugitive emissions components are monitored during each survey. Example procedures include, but are not limited to, a sitemap with an observation path, a written narrative of where the fugitive emissions components are located and how they will be monitored, or an inventory of fugitive emissions components.

(2) If you are using Method 21 of appendix A-7 of this part, your plan must include a list of fugitive emissions components to be monitored and method for determining the location of fugitive emissions components to be monitored in the field (e.g., tagging, identification on a process and instrumentation diagram, etc.).

(3) Your fugitive emissions monitoring plan must include the written plan developed for all of the fugitive emissions components designated as difficult-to-monitor in accordance with paragraph (g)(3) of this section, and the written plan for fugitive emissions components designated as unsafe-to-monitor in accordance with paragraph (g)(4) of this section.

(e) Each monitoring survey shall observe each fugitive emissions component, as defined in § 60.5430a, for fugitive emissions.

(f)

(1) You must conduct an initial monitoring survey within 90 days of the startup of production, as defined in § 60.5430a, for each collection of fugitive emissions components at a new well site or by June 3, 2017, whichever is later. For a modified collection of fugitive emissions components at a well site, the initial monitoring survey must be conducted within 90 days of the startup of production for each collection of fugitive emissions components after the modification or by June 3, 2017, whichever is later. Notwithstanding the preceding deadlines, for each collection of fugitive emissions components at a well site located on the Alaskan North Slope, as defined in § 60.5430a, that starts up production between September and March, you must conduct an initial monitoring survey within 6 months of the startup of production for a new well site, within 6 months of the first day of production after a modification of the collection of fugitive emission components, or by the following June 30, whichever is latest.

(2) You must conduct an initial monitoring survey within 90 days of the startup of a new compressor station for each collection of fugitive emissions components at the new compressor station or by June 3, 2017, whichever is later. For a modified collection of fugitive emissions components at a compressor station, the initial monitoring survey must be conducted within 90 days of the modification or by June 3, 2017, whichever is later. Notwithstanding the preceding deadlines, for each collection of fugitive emissions components at a new compressor station located on the Alaskan North Slope that starts up between September and March, you must conduct an initial monitoring survey within 6 months of the startup date for new compressor stations, within 6 months of the modification, or by the following June 30, whichever is latest.

(g) A monitoring survey of each collection of fugitive emissions components at a well site or at a compressor station must be performed at the frequencies specified in paragraphs (g)(1) and (2) of this section, with the exceptions noted in paragraphs (g)(3) through (6) of this section.

(1) Except as provided in this paragraph (g)(1), a monitoring survey of each collection of fugitive emissions components at a well site must be conducted at least semiannually after the initial survey. Consecutive semiannual monitoring surveys must be conducted at least 4 months apart and no more than 7 months apart. A monitoring survey of each collection of fugitive



## SECTION D. Source Level Requirements

emissions components at a well site located on the Alaskan North Slope must be conducted at least annually. Consecutive annual monitoring surveys must be conducted at least 9 months apart and no more than 13 months apart.

(2) Except as provided in this paragraph (g)(2), a monitoring survey of the collection of fugitive emissions components at a compressor station must be conducted at least quarterly after the initial survey. Consecutive quarterly monitoring surveys must be conducted at least 60 days apart. A monitoring survey of the collection of fugitive emissions components at a compressor station located on the Alaskan North Slope must be conducted at least annually. Consecutive annual monitoring surveys must be conducted at least 9 months apart and no more than 13 months apart.

(3) Fugitive emissions components that cannot be monitored without elevating the monitoring personnel more than 2 meters above the surface may be designated as difficult-to-monitor. Fugitive emissions components that are designated difficult-to-monitor must meet the specifications of paragraphs (g)(3)(i) through (iv) of this section.

(i) A written plan must be developed for all of the fugitive emissions components designated difficult-to-monitor. This written plan must be incorporated into the fugitive emissions monitoring plan required by paragraphs (b), (c), and (d) of this section.

(ii) The plan must include the identification and location of each fugitive emissions component designated as difficult-to-monitor.

(iii) The plan must include an explanation of why each fugitive emissions component designated as difficult-to-monitor is difficult-to-monitor.

(iv) The plan must include a schedule for monitoring the difficult-to-monitor fugitive emissions components at least once per calendar year.

(4) Fugitive emissions components that cannot be monitored because monitoring personnel would be exposed to immediate danger while conducting a monitoring survey may be designated as unsafe-to-monitor. Fugitive emissions components that are designated unsafe-to-monitor must meet the specifications of paragraphs (g)(4)(i) through (iv) of this section.

(i) A written plan must be developed for all of the fugitive emissions components designated unsafe-to-monitor. This written plan must be incorporated into the fugitive emissions monitoring plan required by paragraphs (b), (c), and (d) of this section.

(ii) The plan must include the identification and location of each fugitive emissions component designated as unsafe-to-monitor.

(iii) The plan must include an explanation of why each fugitive emissions component designated as unsafe-to-monitor is unsafe-to-monitor.

(iv) The plan must include a schedule for monitoring the fugitive emissions components designated as unsafe-to-monitor.

(5) You are no longer required to comply with the requirements of paragraph (g)(1) of this section when the owner or operator removes all major production and processing equipment, as defined in § 60.5430a, such that the well site becomes a wellhead only well site. If any major production and processing equipment is subsequently added to the well site, then the owner or operator must comply with the requirements in paragraphs (f)(1) and (g)(1) of this section.

(6) The requirements of paragraph (g)(2) of this section are waived for any collection of fugitive emissions components at a compressor station located within an area that has an average calendar month temperature below 0 °F for two of three consecutive calendar months of a quarterly monitoring period. The calendar month temperature average for each month within the quarterly monitoring period must be determined using historical monthly average temperatures over the previous three years as reported by a National Oceanic and Atmospheric Administration source or other source approved by the Administrator. The requirements of paragraph (g)(2) of this section shall not be waived for two consecutive quarterly monitoring periods.



## SECTION D. Source Level Requirements

(h) Each identified source of fugitive emissions shall be repaired, as defined in § 60.5430a, in accordance with paragraphs (h)(1) and (2) of this section.

(1) A first attempt at repair shall be made no later than 30 calendar days after detection of the fugitive emissions.

(2) Repair shall be completed as soon as practicable, but no later than 30 calendar days after the first attempt at repair as required in paragraph (h)(1) of this section.

(3) Delay of repair will be allowed if the conditions in paragraphs (h)(3)(i) or (ii) of this section are met.

(i) If the repair is technically infeasible, would require a vent blowdown, a compressor station shutdown, a well shutdown or well shut-in, or would be unsafe to repair during operation of the unit, the repair must be completed during the next scheduled compressor station shutdown for maintenance, scheduled well shutdown, scheduled well shut-in, after a scheduled vent blowdown, or within 2 years of detecting the fugitive emissions, whichever is earliest. For purposes of this paragraph (h)(3), a vent blowdown is the opening of one or more blowdown valves to depressurize major production and processing equipment, other than a storage vessel.

(ii) If the repair requires replacement of a fugitive emissions component or a part thereof, but the replacement cannot be acquired and installed within the repair timelines specified in paragraphs (h)(1) and (2) of this section due to either of the conditions specified in paragraphs (h)(3)(ii)(A) or (B) of this section, the repair must be completed in accordance with paragraph (h)(3)(ii)(C) of this section and documented in accordance with § 60.5420a(c)(15)(vi)(l).

(A) Valve assembly supplies had been sufficiently stocked but are depleted at the time of the required repair.

(B) A replacement fugitive emissions component or a part thereof requires custom fabrication.

(C) The required replacement must be ordered no later than 10 calendar days after the first attempt at repair. The repair must be completed as soon as practicable, but no later than 30 calendar days after receipt of the replacement component, unless the repair requires a compressor station or well shutdown. If the repair requires a compressor station or well shutdown, the repair must be completed in accordance with the timeframe specified in paragraph (h)(3)(i) of this section.

(4) Each identified source of fugitive emissions must be resurveyed to complete repair according to the requirements in paragraphs (h)(4)(i) through (iv) of this section, to ensure that there are no fugitive emissions.

(i) The operator may resurvey the fugitive emissions components to verify repair using either Method 21 of appendix A-7 of this part or optical gas imaging.

(ii) For each repair that cannot be made during the monitoring survey when the fugitive emissions are initially found, a digital photograph must be taken of that component or the component must be tagged during the monitoring survey when the fugitives were initially found for identification purposes and subsequent repair. The digital photograph must include the date that the photograph was taken and must clearly identify the component by location within the site (e.g., the latitude and longitude of the component or by other descriptive landmarks visible in the picture).

(iii) Operators that use Method 21 of appendix A-7 of this part to resurvey the repaired fugitive emissions components are subject to the resurvey provisions specified in paragraphs (h)(4)(iii)(A) and (B) of this section.

(A) A fugitive emissions component is repaired when the Method 21 instrument indicates a concentration of less than 500 ppm above background or when no soap bubbles are observed when the alternative screening procedures specified in section 8.3.3 of Method 21 of appendix A-7 of this part are used.

(B) Operators must use the Method 21 monitoring requirements specified in paragraph (c)(8)(ii) of this section or the alternative screening procedures specified in section 8.3.3 of Method 21 of appendix A-7 of this part.

(iv) Operators that use optical gas imaging to resurvey the repaired fugitive emissions components, are subject to the resurvey provisions specified in paragraphs (h)(4)(iv)(A) and (B) of this section.



## SECTION D. Source Level Requirements

(A) A fugitive emissions component is repaired when the optical gas imaging instrument shows no indication of visible emissions.

(B) Operators must use the optical gas imaging monitoring requirements specified in paragraph (c)(7) of this section.

(i) Records for each monitoring survey shall be maintained as specified § 60.5420a(c)(15).

(j) Annual reports shall be submitted for each collection of fugitive emissions components at a well site and each collection of fugitive emissions components at a compressor station that include the information specified in § 60.5420a(b)(7). Multiple collection of fugitive emissions components at a well site or at a compressor station may be included in a single annual report.

### II. TESTING REQUIREMENTS.

#### # 002 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from the provisions of 25 Pa. Code §§123.1, 123.31, 123.41, 127.1 and 127.12, as well as 40 CFR §52.21.]

In accordance with the requirements specified in Section C of this operating permit, the permittee shall conduct testing for fugitive air contaminants and leaks by: 1) performing auditory, visual and olfactory observations as part of the monthly walk-around inspections of the facility, and; 2) commencing a leak detection and repair program, to be implemented within 6 months from the issuance of the Title V permit renewal, using methods acceptable to the Department. Leak detection testing shall be conducted by the facility on an quarterly basis.

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

#### # 003 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

The permittee shall record each leak detected and the associated repair activity. These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

### V. REPORTING REQUIREMENTS.

#### # 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5420a]

##### Subpart OOOOa - Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015

##### What are my notification, reporting, and recordkeeping requirements?

(b) Reporting requirements. You must submit annual reports containing the information specified in paragraphs (b)(1) through (8) and (12) of this section and performance test reports as specified in paragraph (b)(9) or (10) of this section, if applicable. You must submit annual reports following the procedure specified in paragraph (b)(11) of this section. The initial annual report is due no later than 90 days after the end of the initial compliance period as determined according to § 60.5410a. Subsequent annual reports are due no later than same date each year as the initial annual report. If you own or operate more than one affected facility, you may submit one report for multiple affected facilities provided the report contains all of the information required as specified in paragraphs (b)(1) through (8) and (12) of this section. Annual reports may coincide with title V reports as long as all the required elements of the annual report are included. You may arrange with the Administrator a common schedule on which reports required by this part may be submitted as long as the schedule does not extend the reporting period.

(1) The general information specified in paragraphs (b)(1)(i) through (iv) of this section is required for all reports.



## SECTION D. Source Level Requirements

(i) The company name, facility site name associated with the affected facility, U.S. Well ID or U.S. Well ID associated with the affected facility, if applicable, and address of the affected facility. If an address is not available for the site, include a description of the site location and provide the latitude and longitude coordinates of the site in decimal degrees to an accuracy and precision of five (5) decimals of a degree using the North American Datum of 1983.

(ii) An identification of each affected facility being included in the annual report.

(iii) Beginning and ending dates of the reporting period.

(iv) A certification by a certifying official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(7) For the collection of fugitive emissions components at each well site and the collection of fugitive emissions components at each compressor station, report the information specified in paragraphs (b)(7)(i) through (iii) of this section, as applicable.

(i)

(A) Designation of the type of site (i.e., well site or compressor station) at which the collection of fugitive emissions components is located.

(B) For each collection of fugitive emissions components at a well site that became an affected facility during the reporting period, you must include the date of the startup of production or the date of the first day of production after modification. For each collection of fugitive emissions components at a compressor station that became an affected facility during the reporting period, you must include the date of startup or the date of modification.

(C) [Reserved]

(D) For each collection of fugitive emissions components at a well site where during the reporting period you complete the removal of all major production and processing equipment such that the well site contains only one or more wellheads, you must include the date of the change to status as a wellhead only well site.

(E) For each collection of fugitive emissions components at a well site where you previously reported under paragraph (b)(7)(i)(C) of this section the removal of all major production and processing equipment and during the reporting period major production and processing equipment is added back to the well site, the date that the first piece of major production and processing equipment is added back to the well site.

(ii) For each fugitive emissions monitoring survey performed during the annual reporting period, the information specified in paragraphs (b)(7)(ii)(A) through (G) of this section.

(A) Date of the survey.

(B) Monitoring instrument used.

(C) Any deviations from the monitoring plan elements under § 60.5397a(c)(1), (2), and (7) and (c)(8)(i) or a statement that there were no deviations from these elements of the monitoring plan.

(D) Number and type of components for which fugitive emissions were detected.

(E) Number and type of fugitive emissions components that were not repaired as required in § 60.5397a(h).

(F) Number and type of fugitive emission components (including designation as difficult-to-monitor or unsafe-to-monitor, if applicable) on delay of repair and explanation for each delay of repair.

(G) Date of planned shutdown(s) that occurred during the reporting period if there are any components that have been



## SECTION D. Source Level Requirements

placed on delay of repair.

(iii) For each collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station complying with an alternative fugitive emissions standard under § 60.5399a, in lieu of the information specified in paragraphs (b)(7)(i) and (ii) of this section, you must provide the information specified in paragraphs (b)(7)(iii)(A) through (C) of this section.

(A) The alternative standard with which you are complying.

(B) The site-specific reports specified by the specific alternative fugitive emissions standard, submitted in the format in which they were submitted to the state, local, or tribal authority. If the report is in hard copy, you must scan the document and submit it as an electronic attachment to the annual report required in paragraph (b) of this section.

(C) If the report specified by the specific alternative fugitive emissions standard is not site-specific, you must submit the information specified in paragraphs (b)(7)(i) and (ii) of this section for each individual site complying with the alternative standard.

(iv) If you comply with the alternative GHG and VOC standard under § 60.5398b, in lieu of the information specified in paragraph (b)(7)(ii) of this section, you must provide the information specified in § 60.5424b.

Within 60 days after the date of completing each performance test (see § 60.8) required by this subpart, except testing conducted by the manufacturer as specified in § 60.5413a(d), you must submit the results of the performance test following the procedure specified in either paragraph (b)(9)(i) or (ii) of this section.

(i) For data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT website (<https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>) at the time of the test, you must submit the results of the performance test to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), except as outlined in this paragraph (b)(9)(i). (CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>.) Performance test data must be submitted in a file format generated through the use of the EPA's ERT or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the EPA's ERT website. The EPA will make all the information submitted through CEDRI available to the public without further notice to you. Do not use CEDRI to submit information you claim as confidential business information (CBI). Although we do not expect persons to assert a claim of CBI, if you wish to assert a CBI claim, you must submit a complete file generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT website, including information claimed to be CBI, to the EPA following the procedures in paragraphs (b)(9)(i)(A) and (B) of this section. Clearly mark the part or all of the information that you claim to be CBI. Information not marked as CBI may be authorized for public release without prior notice. Information marked as CBI will not be disclosed except in accordance with procedures set forth in 40 CFR part 2. All CBI claims must be asserted at the time of submission. Anything submitted using CEDRI cannot later be claimed CBI. Furthermore, under CAA section 114(c), emissions data is not entitled to confidential treatment, and the EPA is required to make emissions data available to the public. Thus, emissions data will not be protected as CBI and will be made publicly available. The same ERT or alternate file submitted to the CBI office with the CBI omitted must be submitted to the EPA via the EPA's CDX as described earlier in this paragraph (b)(9)(i).

(A) The preferred method to receive CBI is for it to be transmitted electronically using email attachments, File Transfer Protocol, or other online file sharing services. Electronic submissions must be transmitted directly to the OAQPS CBI Office at the email address [oaqpscbi@epa.gov](mailto:oaqpscbi@epa.gov), and as described above, should include clear CBI markings. ERT files should be flagged to the attention of the Group Leader, Measurement Policy Group. If assistance is needed with submitting large electronic files that exceed the file size limit for email attachments, and if you do not have your own file sharing service, please email [oaqpscbi@epa.gov](mailto:oaqpscbi@epa.gov) to request a file transfer link.

(B) If you cannot transmit the file electronically, you may send CBI information through the postal service to the following address: U.S. EPA, Attn: OAQPS Document Control Officer and Measurement Policy Group Leader, Mail Drop: C404-02, 109 T.W. Alexander Drive, P.O. Box 12055, RTP, NC 27711. The mailed CBI material should be double wrapped and clearly marked. Any CBI markings should not show through the outer envelope.

(ii) For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT website at the



## SECTION D. Source Level Requirements

time of the test, you must submit the results of the performance test to the Administrator at the appropriate address listed in § 60.4.

(11) You must submit reports to the EPA via CEDRI, except as outlined in this paragraph (b)(11). CEDRI can be accessed through the EPA's CDX (<https://cdx.epa.gov/>). You must use the appropriate electronic report template on the CEDRI website for this subpart (<https://www.epa.gov/electronic-reporting-air-emissions/cedri/>). If the reporting form specific to this subpart is not available on the CEDRI website at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in § 60.4. Once the form has been available in CEDRI for at least 90 calendar days, you must begin submitting all subsequent reports via CEDRI. The date reporting forms become available will be listed on the CEDRI website. Unless the Administrator or delegated state agency or other authority has approved a different schedule for submission of reports, the reports must be submitted by the deadlines specified in this subpart, regardless of the method in which the reports are submitted. The EPA will make all the information submitted through CEDRI available to the public without further notice to you. Do not use CEDRI to submit information you claim as CBI. Although we do not expect persons to assert a claim of CBI, if you wish to assert a CBI claim for some of the information in the report, submit a complete file using the appropriate electronic report template on the CEDRI website, including information claimed to be CBI, to the EPA following the procedures in paragraphs (b)(11)(i) and (ii) of this section. Clearly mark the part or all of the information that you claim to be CBI. Information not marked as CBI may be authorized for public release without prior notice. Information marked as CBI will not be disclosed except in accordance with procedures set forth in 40 CFR part 2. All CBI claims must be asserted at the time of submission. Anything submitted using CEDRI cannot later be claimed CBI. Furthermore, under CAA section 114(c), emissions data is not entitled to confidential treatment, and the EPA is required to make emissions data available to the public. Thus, emissions data will not be protected as CBI and will be made publicly available. Submit the same file submitted to the CBI office with the CBI omitted must be submitted to the EPA via the EPA's CDX as described earlier in this paragraph (b)(11).

(i) The preferred method to receive CBI is for it to be transmitted electronically using email attachments, File Transfer Protocol, or other online file sharing services. Electronic submissions must be transmitted directly to the OAQPS CBI Office at the email address [oaqpscbi@epa.gov](mailto:oaqpscbi@epa.gov), and as described above, should include clear CBI markings. Files should be flagged to the attention of the Oil and Natural Gas Sector Lead. If assistance is needed with submitting large electronic files that exceed the file size limit for email attachments, and if you do not have your own file sharing service, please email [oaqpscbi@epa.gov](mailto:oaqpscbi@epa.gov) to request a file transfer link.

(ii) If you cannot transmit the file electronically, you may send CBI information through the postal service to the following address: U.S. EPA, Attn: OAQPS Document Control Officer and Oil and Natural Gas Sector Lead, Mail Drop: C404-02, 109 T.W. Alexander Drive, P.O. Box 12055, RTP, NC 27711. The mailed CBI material should be double wrapped and clearly marked. Any CBI markings should not show through the outer envelope.

(12) You must submit the certification signed by the qualified professional engineer or in-house engineer according to § 60.5411a(d) for each closed vent system routing to a control device or process.

(13) If you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of EPA system outage for failure to timely comply with the reporting requirement. To assert a claim of EPA system outage, you must meet the requirements outlined in paragraphs (b)(13)(i) through (vii) of this section.

(i) You must have been or will be precluded from accessing CEDRI and submitting a required report within the time prescribed due to an outage of either the EPA's CEDRI or CDX systems.

(ii) The outage must have occurred within the period of time beginning 5 business days prior to the date that the submission is due.

(iii) The outage may be planned or unplanned.

(iv) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or caused a delay in reporting.

(v) You must provide to the Administrator a written description identifying:



## SECTION D. Source Level Requirements

(A) The date(s) and time(s) when CDX or CEDRI was accessed and the system was unavailable;

(B) A rationale for attributing the delay in reporting beyond the regulatory deadline to the EPA system outage;

(C) Measures taken or to be taken to minimize the delay in reporting; and

(D) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported.

(vi) The decision to accept the claim of EPA system outage and allow an extension to the reporting deadline is solely within the discretion of the Administrator.

(vii) In any circumstance, the report must be submitted electronically as soon as possible after the outage is resolved.

(14) If you are required to electronically submit a report through CEDRI in the EPA's CDX, the owner or operator may assert a claim of force majeure for failure to timely comply with the reporting requirement. To assert a claim of force majeure, you must meet the requirements outlined in paragraphs (b)(14)(i) through (v) of this section.

(i) You may submit a claim if a force majeure event is about to occur, occurs, or has occurred or there are lingering effects from such an event within the period of time beginning 5 business days prior to the date the submission is due. For the purposes of this section, a force majeure event is defined as an event that will be or has been caused by circumstances beyond the control of the affected facility, its contractors, or any entity controlled by the affected facility that prevents you from complying with the requirement to submit a report electronically within the time period prescribed. Examples of such events are acts of nature (e.g., hurricanes, earthquakes, or floods), acts of war or terrorism, or equipment failure or safety hazard beyond the control of the affected facility (e.g., large scale power outage).

(ii) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or caused a delay in reporting.

(iii) You must provide to the Administrator:

(A) A written description of the force majeure event;

(B) A rationale for attributing the delay in reporting beyond the regulatory deadline to the force majeure event;

(C) Measures taken or to be taken to minimize the delay in reporting; and

(D) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported.

(iv) The decision to accept the claim of force majeure and allow an extension to the reporting deadline is solely within the discretion of the Administrator.

(v) In any circumstance, the reporting must occur as soon as possible after the force majeure event occurs.

## VI. WORK PRACTICE REQUIREMENTS.

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

## VII. ADDITIONAL REQUIREMENTS.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source ID 101 is the pipeline valves and flanges that are in natural gas or hydrocarbon liquid service at the facility.



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## SECTION D. Source Level Requirements

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

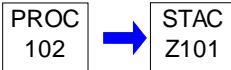


## SECTION D. Source Level Requirements

Source ID: 102

Source Name: TANK TRUCK LOADING OPERATIONS

Source Capacity/Throughput:



### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

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

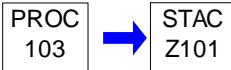


## SECTION D. Source Level Requirements

Source ID: 103

Source Name: VENTING/BLOWDOWN OPERATIONS

Source Capacity/Throughput:



### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

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



## SECTION D. Source Level Requirements

Source ID: 200

Source Name: NG CONDENSATE LIQUIDS STORAGE TANK

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 6

### I. RESTRICTIONS.

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

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



## SECTION D. Source Level Requirements

Source ID: 201      Source Name: OILY WASTEWATER STORAGE TANK

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 6

### I. RESTRICTIONS.

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

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



## SECTION E. Source Group Restrictions.

Group Name: 1

Group Description: Process Units 1

Sources included in this group

ID	Name
038	#6 SOLAR MARS GAS TURBINE
039	#7 SOLAR MARS 100 GAS TURBINE

### 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 this source in excess of .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 a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

#### Fuel Restriction(s).

##### # 003 [25 Pa. Code §127.512]

###### Operating permit terms and conditions.

The permittee shall use only pipeline quality natural gas as fuel for the sources in this source group.

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

##### # 004 [25 Pa. Code §127.511]

###### Monitoring and related recordkeeping and reporting requirements.

The company shall maintain records of the fuel usage for each source in this source group. These records shall be updated monthly and maintained on a 12-month rolling sum. All records shall be maintained in accordance with General Title V Requirement #024.

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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



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## SECTION E. Source Group Restrictions.

### VII. ADDITIONAL REQUIREMENTS.

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

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



## SECTION E. Source Group Restrictions.

Group Name: 2

Group Description: Presumptive RACT II

Sources included in this group

ID	Name
038	#6 SOLAR MARS GAS TURBINE
042	WAUKESHA EMERGENCY GENERATOR

### I. RESTRICTIONS.

#### Emission Restriction(s).

##### # 001 [25 Pa. Code §127.512]

###### Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code §129.97]

For Source ID 038:

Emission limits are as follows for a simple cycle or regenerative cycle combustion turbine with a rated output equal to or greater than 6,000 bhp when firing:

- (A) Natural gas or a noncommercial gaseous fuel, 42 ppmvd NOx @ 15% oxygen.
- (B) Natural gas or a noncommercial gaseous fuel, 9 ppmvd VOC (as propane) @ 15% oxygen.

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

##### # 002 [25 Pa. Code §127.512]

###### Operating permit terms and conditions.

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

For Source ID 038:

The owner and operator of an air contamination source subject to a NOx RACT requirement or RACT emission limitation or VOC RACT requirement or RACT emission limitation, or both, listed in § 129.97 (relating to presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule) shall demonstrate compliance with the applicable RACT requirement or RACT emission limitation by performing the following monitoring or testing procedures:

- (1) For an air contamination source without a CEMS, monitoring and testing in accordance with a Department-approved emissions source test that meets the requirements of Chapter 139, Subchapter A (relating to sampling and testing methods and procedures). The source test shall be conducted one time in each 5-year calendar period.

### V. REPORTING REQUIREMENTS.

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



## SECTION E. Source Group Restrictions.

### VI. WORK PRACTICE REQUIREMENTS.

# 003 [25 Pa. Code §127.512]

#### Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code §129.97]

For Source ID 042 and 050:

The owner and operator shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices.

### VII. ADDITIONAL REQUIREMENTS.

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

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



## SECTION E. Source Group Restrictions.

Group Name: 3

Group Description: Presumptive RACT III

Sources included in this group

ID	Name
038	#6 SOLAR MARS GAS TURBINE
039	#7 SOLAR MARS 100 GAS TURBINE
042	WAUKESHA EMERGENCY GENERATOR
044	#8 SOLAR MARS 100 GAS TURBINE
045	WAUKESHA P48GL, EMERGENCY GENERATOR (#2)

### I. RESTRICTIONS.

#### Emission Restriction(s).

**# 001 [25 Pa. Code §129.112]**

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

For source ID 038, 039, and 044:

(g) Except as specified in subsection (c), the owner and operator of a NOx air contamination source listed in this subsection that is located at a major NOx emitting facility or a VOC air contamination source listed in this subsection that is located at a major VOC emitting facility subject to § 129.111 may not cause, allow or permit NOx or VOCs to be emitted from the air contamination source in excess of the applicable presumptive RACT emission limitation specified in the following paragraphs:

(2) The owner or operator of a:

(v) Simple cycle or regenerative cycle combustion turbine with a rated output equal to or greater than 4,100 bhp and less than 60,000 bhp shall comply with the following presumptive RACT emission limitations as applicable:

(A) 42 ppmvd NOx @ 15% oxygen when firing natural gas or a noncommercial gaseous fuel.

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

**# 002 [25 Pa. Code §129.115]**

**Written notification, compliance demonstration and recordkeeping and reporting requirements**

For Source ID 038, 039, and 044:

The owner and operator of an air contamination source subject to a NOx RACT requirement or RACT emission limitation or VOC RACT requirement or RACT emission limitation, or both, listed in § 129.97 (relating to presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule) shall demonstrate compliance with the applicable RACT requirement or RACT emission limitation by performing the following monitoring or testing procedures:

(1) For an air contamination source without a CEMS, monitoring and testing in accordance with a Department-approved emissions source test that meets the requirements of Chapter 139, Subchapter A (relating to sampling and testing methods and procedures). The source test shall be conducted one time in each 5-year calendar period.



## SECTION E. Source Group Restrictions.

### # 003 [25 Pa. Code §129.115]

#### **Written notification, compliance demonstration and recordkeeping and reporting requirements**

For Source ID 042 and 045:

(f) The owner and operator of an air contamination source subject to this section and §§ 129.111—129.114 shall keep records to demonstrate compliance with §§ 129.111—129.114 and submit reports to the Department or appropriate approved local air pollution control agency in accordance with the applicable regulations in 25 Pa. Code, Part I, Subpart C, Article III (relating to air resources) and as specified in the operating permit or plan approval for the air contamination source as follows:

(1) The records shall include sufficient data and calculations to demonstrate that the requirements of §§ 129.111—129.114 are met.

(2) Data or information required to determine compliance shall be recorded and maintained in a time frame consistent with the averaging period of the requirement.

(3) The records necessary to determine compliance shall be reported to the Department or appropriate approved local air pollution control agency on a schedule specified in the applicable regulation or as otherwise specified in the operating permit or plan approval for the air contamination source.

## **V. REPORTING REQUIREMENTS.**

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

## **VI. WORK PRACTICE REQUIREMENTS.**

### # 004 [25 Pa. Code §129.112]

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

For Source ID 042 and 045:

(c) The owner and operator of a source listed in this subsection that is located at a major NOx emitting facility or major VOC emitting facility subject to § 129.111 shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices:

(4) A boiler or other combustion source with an individual rated gross heat input less than 20 million Btu/ hour.

(10) An emergency standby engine operating less than 500 hours in a 12-month rolling period.

## **VII. ADDITIONAL REQUIREMENTS.**

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

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



## SECTION E. Source Group Restrictions.

Group Name: 4

Group Description: Solar Titan 250 - 33,904 HP

Sources included in this group

ID	Name
051	#9 SOLAR TITAN 250 GAS TURBINE W/SOLONOX
052	#10 SOLAR TITAN 250 GAS TURBINE W/SOLONOX

### I. RESTRICTIONS.

#### Emission Restriction(s).

##### # 001 [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 SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis from each turbine.

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 (H<sub>2</sub>S) per 100 cubic feet of gas; and

(b) 5.0 grains of total sulfur per 100 cubic feet of gas based on annual average and not exceed 20 grains per 100 standard cubic feet at any time.

##### # 002 [25 Pa. Code §127.441]

###### Operating permit terms and conditions.

Pursuant to best available technology requirement of 25 Pa. Code §§127.1 and 127.12, the facility is subject to the following air contaminant emission limitations from turbine during normal operation.

a. NOx- 1-hour average - 9 PPMVD @ 15 % O<sub>2</sub>, 7.63 lb/hr

b. CO - 1-hour average - 10 PPMVD @ 15 % O<sub>2</sub>, 5.16 lb/hr

c. VOC- 5 PPMVD @ 15 % O<sub>2</sub>, 1.48 lb/hr

d. Formaldehyde- 0.0028 lb/mmbtu, 0.72 lb/hr

e. PM/PM10 - 1.64 lbs/hr

f. Sulfur Oxide (SO<sub>x</sub>) - 0.0034 lb/mmbtu, 0.84 lb/hr

g. Total HAPs - 0.79 lbs/hr

Normal operation is defined as operation at temperatures >0 F and the turbine is operating in SoLoNOx mode. NOx, CO and VOC emission limits do not apply during the startup and shutdown of the turbine. Each startup and shutdown period is limited to a maximum of 15 minutes each.

##### # 003 [25 Pa. Code §127.441]

###### Operating permit terms and conditions.

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

a. Startup: NOx @ 3 lb/event, CO @ 48 lb/event, VOC @ 3 lb/event

b. Shutdown: NOx @ 1 lb/event, CO @ 30 lb/event, VOC @ 3 lb/event

Event is defined as 1 startup or 1 shut down.

##### # 004 [25 Pa. Code §127.441]

###### Operating permit terms and conditions.

Whenever the turbines are operating under ambient sub zero temperature conditions, the allowable emission limit listed in condition No. 002 do not apply for NOx, CO & VOC emissions. The company shall meet following emission limitations during operation of the turbines under ambient sub zero temperature conditions.

NOx- 13.35 lb/hr- 1-hour



## SECTION E. Source Group Restrictions.

CO- 13.54 lb/hr- 1-hour  
VOC- 1.55 lb/hr- 1-hour

### # 005 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

Emissions from the turbines from startup, shutdown and including emissions during operating under sub zero temperature conditions shall not exceeds following;

- a. PM10/PM2.5 - 0.16 tons/year.
- b. Nitrogen Oxides (NOx) as NO2 -1.28 tons/year.
- c. Sulfur Dioxide (SOx) - 0.08 tons/year.
- d. Carbon Monoxide (CO) - 6.70 tons/year.
- e. Volatile Organic Compounds (VOC) - 0.55 tons/year.
- f. Formaldehyde (HCHO) - 0.07 tons/year.
- g. Hazardous Air Pollutants (Combined HAPS) - 0.08 tons/year.

### # 006 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The two (2) new Solar Titan 250 Turbine may not be operated until the five (5) Cooper-Bessemer Compressors (Source IDs 031, 032, 033, 034 and 035) are removed from service.

### Fuel Restriction(s).

### # 007 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The permittee shall only use pipeline quality natural gas as a fuel for turbines.

### # 008 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

1. Pursuant to the 40 CFR Part 60, Subpart KKKK, combustion turbine shall primarily fire natural gas with sulfur content no greater than 20 grains/100 SCF.
2. The total sulfur content of the natural gas shall be equal to or less than 5.0 grains per 100 standard cubic feet based on annual average.

### Operation Hours Restriction(s).

### # 009 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

The company shall not operate turbines without operating SoloNOx system at any time during normal operation.

### # 010 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

Definitions:

- (a) A startup is defined as operation in the period beginning when continuous fuel flow to the combustion turbine is initiated and ending when the combustion turbine achieves on load condition and is in SoloNOx operating mode.
- (b) Shutdown is defined as the period beginning with the lowering of unit off load and out of SoloNOx operating mode with the intent of ceasing operation of the unit and ending with the termination of continuous fuel flow to the combustion turbine.
- (c) Normal operation is defined as all times except startup and shutdown.



## SECTION E. Source Group Restrictions.

### # 011 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

(a) Pursuant to 25 Pa. Code §§127.1 and 127.12, all startups of the natural gas-fired turbines shall be performed with the electric motor equipped on the source.

(b) Pursuant to 25 Pa. Code §§127.1 and 127.12, startup electric motor shall be the only startup capability equipment equipped on each turbines, i.e. incorporating electric starter motor with a backup start-up capability that has the potential for leaks, such as, a backup start-up capability using compressed natural gas is prohibited.

#### **Throughput Restriction(s).**

### # 012 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

1. Turbine shall not be operated out of SoLoNOx operating mode at any time except startup and shutdown.

## II. TESTING REQUIREMENTS.

### # 013 [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.

### # 014 [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 operating permit, 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 operating permit, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee 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 operating permit, 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 operating permit may be grounds for immediate revocation of the operating permit to operate the affected source.

### # 015 [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 NOx 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



## SECTION E. Source Group Restrictions.

reference methods should the data from the portable analyzer warrant such tests.

### # 016 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

Pursuant to the requirement of 40 CFR Part 60, subpart KKKK, the company shall perform annual performance tests in accordance with §60.4400 to demonstrate continuous compliance for NOx emission. If the NOx emission result from the performance test is less than or equal to 75 percent of the NOx emission limit for the turbines, the company may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NOx emission limit for the turbines, the company must resume annual performance tests.

## III. MONITORING REQUIREMENTS.

### # 017 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

(a) The centrifugal compressor associated shall use dry seal(s).

(b) The primary seal vent pressure (or other indicators, such as seal leak rate) shall be monitored per the manufacturer's specification to verify the dry seal(s) incorporated into the design of the centrifugal compressor have not deteriorated passed their useful life due to normal wear and tear, contamination, etc. An alarm shall sound if abnormal seal operation is detected.

### # 018 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

The permittee shall monitor emissions of NOx, CO, PM, PM10, VOCs, SOx, and formaldehyde by using fuel consumption data, and/or startup and shutdown operations, as applicable based on the pollutant, as well as the most recent emissions data based on stack testing results and the plan approval application's emission specifications for startup and shutdown operations to perform emissions calculations, on a calendar monthly basis, to verify compliance with the 12 consecutive month emission restrictions.

### # 019 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

The permittee shall monitor & record monthly hours of operation of each turbine in normal operation mode and under sub zero temperature conditions including numbers of start-up and shutdown periods for the turbines.

### # 020 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

A continuous monitoring system shall be installed and operated to monitor and record the fuel consumption for the turbines, in units of standard cubic feet. This system shall be accurate to within plus or minus 5 percent.

### # 021 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

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 SO<sub>2</sub>/J (0.060 lb SO<sub>2</sub>/MMBtu) heat input.

### # 022 [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 turbines shall be equipped, prior to initial start-up, with instrumentation to continuously monitor manufacturer's recommended, operational parameters which will indicate whether the turbines are operating in a low-NOx (SoLoNOx) mode.

### # 023 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

The turbines inlet air temperature shall be continuously monitored.

### # 024 [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



## SECTION E. Source Group Restrictions.

through 60.4370.

### IV. RECORDKEEPING REQUIREMENTS.

#### # 025 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

The permittee shall keep records of the manufacturers' recommended maintenance practices and activities for their monitoring instrumentation which is used to meet the monitoring requirements, as well as maintenance records including calibrations performed and any corrective actions taken.

#### # 026 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

(a) The permittee shall maintain detailed records of all maintenance (preventive or otherwise) performed on the combustion turbines. The records shall include, at a minimum, the following information:

(1) The name of the company representative performing the maintenance.

(2) The date of each maintenance.

(3) A description of the maintenance, mechanical repairs, and/or adjustments.

(b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon its request.

(c) The permittee shall maintain a copy of the combustion turbines manufacturer's preventive maintenance schedule on-site at all times.

#### # 027 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

The permittee shall record the duration (hours) of combustion turbine startup and shutdown event, and operation of turbine under sub zero temperature conditions including the date and times of each event. Air emissions of the nonmonitored pollutants listed in Conditions, above, during these events shall be calculated based upon the emission rates presented in the plan approval application. All of these emissions shall be included in the monthly and consecutive 12-month air emissions calculations, as well as the annual report.

#### # 028 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

(a) The permittee shall maintain records of the combustion turbine's monthly operating hours and the operating hours for each consecutive 12-month period during startup, shutdown & operating under subzero temperature events.

(b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon its request.

#### # 029 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from the provisions of 40 CFR § 60.4365]

The permittee shall keep accurate and comprehensive records of current, up-to-date, valid purchase contract, tariff sheet or transportation contract, or representative fuel sampling data for the natural gas fuel used to operate the combustion turbines that indicates the maximum total sulfur content of the natural gas fuel used in the combustion turbines does not exceed the SO<sub>2</sub> restriction specified above in Fuel Restriction(s).

#### # 030 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

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



## SECTION E. Source Group Restrictions.

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

### # 031 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

(a) The permittee shall 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.

### # 032 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

The permittee shall record each start-up, shutdown and malfunction of each turbine. 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.

### # 033 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

The permittee shall calculate the emissions from the turbines 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.

### # 034 [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 operating permit. 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 operating permit. 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.

2. The company shall maintain following records:

(a) Data, such as hp, which clearly demonstrates the turbine never operates above its rated capacity/hp and will maintain data that demonstrates operation in SoLoNOx mode.

(b) The records shall provide sufficient data to clearly demonstrate that the requirement of operating permit conditions are met.

(c) Monthly hours of operation of turbines in normal operating mode and under sub zero temperature conditions including start-up and shutdown period, number of startups and shutdowns and the dates each occur, Duration of each startup and shutdown even for the turbines.

(d) Monthly fuel consumption rate and 12-month rolling total fuel consumption.

(e) The supporting calculations used to verify the sulfur oxides, particulate matter, and volatile organic compounds emission limitations.

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



## SECTION E. Source Group Restrictions.

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

**# 035 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall keep records of the appropriate operational parameters for the turbines which will indicate low-NOx (SoLoNOx) mode operation.

## VI. REPORTING REQUIREMENTS.

**# 036 [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.

**# 037 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

1. The company shall immediately notify the Department of any malfunction of, or damage to, source(s) or associated air cleaning device(s) which result in, or may possibly be results in, the emissions in excess of the limitations specified in this operating permit or any applicable Department Rule or Regulation.

2. Any changes in the location of the aforementioned source, or any changes in the process or control equipment would be considered a modification and would require the submittal of an amended application for plan approval in accordance with the provisions of 25 PA Code 127.11 and 127.12.

3. This source is subject to Subpart KKKK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR §60.4 requires submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Air Protection Division  
US EPA, Region III  
Mail Code 3AP00  
1650 Arch Street  
Philadelphia, PA 19103

4. Any notification as a result of any condition herein should be directed to:

Air Quality Program Manager  
Department of Environmental Protection  
2 Public Square  
Wilkes-Barre, Pa 18701-1915

## VI. WORK PRACTICE REQUIREMENTS.

**# 038 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

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

**# 039 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) The permittee shall at all times operate and maintain the combustion turbine, including all associated monitoring equipment, in accordance with the manufacturer's recommendations/ specifications (including the manufacturer's preventive maintenance schedule), as well as in a manner consistent with good operating and air pollution control practices that minimize air emissions.

**# 040 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Pursuant to 25 Pa. Code §§ 127.1 and 127.12 (relating to best available technology), the permittee shall follow the



## SECTION E. Source Group Restrictions.

manufacturers recommendations for procedures of startup and shutdown.

### # 041 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

The centrifugal compressor, along with the dry seals, shall be maintained in accordance with the manufacturer's recommended practices.

### # 042 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

The centrifugal compressor shall incorporate dry seals to control fugitive leaks from the source.

### # 043 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the turbine shall be:

(a) Constructed, operated and maintained in accordance with the manufacturer's specifications or plan approved by the Department.

(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.

### # 044 [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.

## VII. ADDITIONAL REQUIREMENTS.

### # 045 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

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

1. The permittee shall perform the emissions monitoring analysis procedures or test methods required under an applicable requirement including procedures and methods under Sections 114(a)(3) ( 42 U.S.C.A. §§ 7414 (a)(3)) or 504(b)( 42 U.S.C.A. §§ 7661c(b)) of the Clean Air Act.

2. Unless otherwise required by this permit, the permittee shall comply with applicable monitoring, quality assurance, recordkeeping and reporting requirements of the Air Pollution Control Act, 25 Pa. Code, Subpart C, Article III (relating to air resources), including Chapter 139 (relating to sampling and testing). The permittee shall also comply with applicable requirements related to monitoring, quality assurance, reporting and recordkeeping required by the Clean Air Act including §§ 114(a)(3) and 504(b) and regulations adopted thereunder, unless otherwise required by this permit.

### # 046 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

The Department reserves the right to use the emissions test results, and the operating parameters recorded during emissions testing of the combustion turbines to verify emission rates, to establish emission factors, and to develop compliance assurance measures in this operating permit and any subsequent incorporation into operating permit.

### # 047 [25 Pa. Code §127.441]

#### **Operating permit terms and conditions.**

The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subpart KKKK [40 CFR § 60.4300 through § 60.4420].

### # 048 [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.



40-00002

TRANSCONTINENTAL GAS/BEAR CREEK STA 515



## SECTION E. Source Group Restrictions.

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



## SECTION E. Source Group Restrictions.

Group Name: 5

Group Description: Auxiliary Generators

Sources included in this group

ID	Name
053	AUXILIARY GENERATOR #1
054	AUXILIARY GENERATOR #2
055	AUXILIARY GENERATOR #3

### I. RESTRICTIONS.

#### Emission Restriction(s).

##### # 001 [25 Pa. Code §127.441]

###### Operating permit terms and conditions.

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 emergency generators and fire pump 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 §127.441]

###### Operating permit terms and conditions.

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 (a) 0.25 grains of hydrogen sulfide (H2S) per 100 cubic feet of gas; and (b) 5.0 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 Emission Standards requirements specified in 40 CFR Part 60 Subpart JJJJ 60.4233 through 60.4234.

##### # 004 [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 operate the auxiliary generators in manner that the rate of emissions from do not exceed the following limitations:

- (i) Nitrogen Oxide - 0.20 grams per brake horsepower-hour
- (ii) Carbon Monoxide - 0.30 grams per brake horsepower-hour
- (iii) Volatile Organic Compound - 0.2 gram per brake horsepower-hour (excluding formaldehyde)
- (IV) Formaldehyde - 2.7 ppmvd @ 15% or 76% reduction

### II. TESTING REQUIREMENTS.

##### # 005 [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.

### III. MONITORING REQUIREMENTS.

##### # 006 [25 Pa. Code §127.441]

###### Operating permit terms and conditions.

Prior to initial stationary start-up, the permittee shall equip the generators with a non-resettable hour meters that logs the run-time of each generator.



## 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 (Title V General Requirements).

### V. REPORTING REQUIREMENTS.

#### # 007 [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.

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

### VII. ADDITIONAL REQUIREMENTS.

#### # 008 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

The permittee shall comply with all applicable Compliance requirements specified in 40 CFR Part 60 Subpart JJJJ 60.4235 through 60.4237.

#### # 009 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

The natural gas fueled generators are 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.

#### # 010 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

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.

#### # 011 [25 Pa. Code §127.441]

##### **Operating permit terms and conditions.**

The permittee shall comply with all applicable Compliance requirements specified in 40 CFR Part 60 Subpart JJJJ 60.4243.

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



## SECTION E. Source Group Restrictions.

Group Name: 6

Group Description: Storage Tanks

Sources included in this group

ID	Name
200	NG CONDENSATE LIQUIDS STORAGE TANK
201	OILY WASTEWATER STORAGE TANK

### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

# 001 [25 Pa. Code §127.441]

#### Operating permit terms and conditions.

Storage tanks/vessels shall be:

- a. operated in such a manner as not to cause excessive air pollution.
- b. operated and maintained in a manner consistent with good operating and maintenance practices.
- c. operated and maintained in accordance with the manufacturer's specifications.

### VII. ADDITIONAL REQUIREMENTS.

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

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



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TRANSCONTINENTAL GAS/BEAR CREEK STA 515



## SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.



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## SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.



## SECTION H. Miscellaneous.

(a) The Title V Operating Permit application was received on June 23, 2025. The annual operating permit maintenance fee shall be submitted to the Department in accordance with 25 Pa. Code, Chapter 127, Section 127.704 (Section B, Condition #018(b) of this operating permit). The annual maintenance fees are due no later than December 31, annually.

(b) This permit is a renewal of Operating Permit No. 40-00002.

(c) This is a Title V Operating Permit facility.

(d) Plan Approvals include:

40-329-001 issued 12/18/07

40-328-008 issued 3/11/13

40-00002A issued 11/3/14

40-00002B issued 12/27/21

(e) Requests for Determination (RFDs) include:

40-0811, 40-0843, 40-0915, 40-0916, 40-0917, and 40-0918 for temporary maintenance venting

40-1004 for updates to emergency generator emission limits

10676 for the installation of three smaller generators in place of two generators

[Note: All permit conditions citing 25 Pa. Code 129.91 - 129.100 are RACT I and II requirements which remain in the permit]



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