



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: October 4, 2023 Effective Date: October 14, 2025
Revision Date: October 14, 2025 Expiration Date: October 4, 2028
Revision Type: Amendment

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: 30-00077

Federal Tax Id - Plant Code: 72-0378240-10

Owner Information

Name: TEXAS EASTERN TRANS LP
Mailing Address: 46552 SWAZEY RD
LEWISVILLE, OH 43754-9441

Plant Information

Plant: TEXAS EASTERN TRANS LP/HOLBROOK STA
Location: 30 Greene County 30922 Richhill Township
SIC Code: 4922 Trans. & Utilities - Natural Gas Transmission

Responsible Official

Name: ROBERT STEEDE
Title: VICE PRESIDENT - ENV COM
Phone: (717) 540 - 8333 Email: robert.steede@enbridge.com

Permit Contact Person

Name: SUSANN BROWN
Title: ENV, AIR MONITORING & REP
Phone: (908) 821 - 1825 Email: susann.brown@enbridge.com

[Signature] _____

MARK R. GOROG, P.E., ENVIRONMENTAL PROGRAM MANAGER, SOUTHWEST REGION



SECTION A. Table of Contents

Section A. Facility/Source Identification

Table of Contents
Site Inventory List

Section B. General Title V Requirements

- #001 Definitions
- #002 Prohibition of Air Pollution
- #003 Property Rights
- #004 Permit Expiration
- #005 Permit Renewal
- #006 Transfer of Ownership or Operational Control
- #007 Inspection and Entry
- #008 Compliance Requirements
- #009 Need to Halt or Reduce Activity Not a Defense
- #010 Duty to Provide Information
- #011 Reopening and Revising the Title V Permit for Cause
- #012 Reopening a Title V Permit for Cause by EPA
- #013 Operating Permit Application Review by the EPA
- #014 Significant Operating Permit Modifications
- #015 Minor Operating Permit Modifications
- #016 Administrative Operating Permit Amendments
- #017 Severability Clause
- #018 Fee Payment
- #019 Authorization for De Minimis Emission Increases
- #020 Reactivation of Sources
- #021 Circumvention
- #022 Submissions
- #023 Sampling, Testing and Monitoring Procedures
- #024 Compliance Certification
- #025 Recordkeeping Requirements
- #026 Reporting Requirements
- #027 Operational Flexibility
- #028 Risk Management
- #029 Approved Economic Incentives and Emission Trading Programs
- #030 Permit Shield
- #031 Reporting
- #032 Report Format

Section C. Site Level Title V Requirements

- C-I: Restrictions
- C-II: Testing Requirements
- C-III: Monitoring Requirements
- C-IV: Recordkeeping Requirements
- C-V: Reporting Requirements
- C-VI: Work Practice Standards
- C-VII: Additional Requirements
- C-VIII: Compliance Certification
- C-IX: Compliance Schedule

Section D. Source Level Title V Requirements

- D-I: Restrictions
- D-II: Testing Requirements
- D-III: Monitoring Requirements
- D-IV: Recordkeeping Requirements
- D-V: Reporting Requirements



SECTION A. Table of Contents

D-VI: Work Practice Standards
D-VII: Additional Requirements

Note: These same sub-sections are repeated for each source!

Section E. Source Group Restrictions

E-I: Restrictions
E-II: Testing Requirements
E-III: Monitoring Requirements
E-IV: Recordkeeping Requirements
E-V: Reporting Requirements
E-VI: Work Practice Standards
E-VII: Additional Requirements

Section F. Alternative Operating Scenario(s)

F-I: Restrictions
F-II: Testing Requirements
F-III: Monitoring Requirements
F-IV: Recordkeeping Requirements
F-V: Reporting Requirements
F-VI: Work Practice Standards
F-VII: Additional Requirements

Section G. Emission Restriction Summary

Section H. Miscellaneous

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
118	15000 HP, SOLAR MARS TURBINE #1 100-150002S II, SN 0157M		
120	EMERGENCY GENERATOR #2 (675 HP ENGINE)	5.740	MMBTU/HR
122	AREA FUGITIVES		
123	LIQUID STORAGE TANKS/PRESSURE VESSELS		
124	TWO (2) PIPELINE CONDENSATE STORAGE TANKS		
125	15000 HP, SOLAR MARS TURBINE #2 100-150002S III, SN 1194M		
126	14 MISCELLANEOUS GAS HEATERS (<1.0 MMBTU/HR EACH)		
127	PARTS WASHER		
128	15000 HP, SOLAR MARS TURBINE #3 100-150002S III, SN 1249M		
129	EMERGENCY GENERATOR #4 (440 HP ENGINE)	7.470	MMBTU/HR
130	GAS RELEASE EVENTS		
131	SOLAR TAURUS 070 TURBINE #1 (10,744 HP)		
132	SOLAR TAURUS 070 TURBINE #2 (10,744 HP)		
133	585 HP WAUKESHA VGF24GL EMERGENCY GENERATOR		
134	2 MISC. GAS HEATERS (0.769 MMBTU/HR EACH)		
135	2,940 GALLON PIPELINE LIQUIDS TANK		
136	3 SEPERATOR VESSELS		
C125	OXIDATION CATALYST TURBINE #2		
C128	OXIDATION CATALYST ON MARS TURBINE # 3		
C130	SOLAR TURBINES RECOMPRESSION SYSTEM		
C131	OXIDATION CATALYST SOLAR TURBINE #1		
C132	OXIDATION CATALYST SOLAR TURBINE #2		
S18	TURBINE #1 STACK		
S20	CAT EMER GENERATOR # 2 FUGITIVE		
S23	STORAGE TANK 1 FUGITIVE		
S24	CONDENSATE STORAGE TANKS STACKS		
S25	TURBINE #2 STACK		
S28	TURBINE #3 STACK		
S29	WAUKESHA EMERGENCY GEN. STACK		
S31	SOLAR TURBINE #1 STACK		
S32	SOLAR TURBINE #2 STACK		
S33	585 HP WAUKESHA EMERGENCY GEN STACK		
S34	GAS HEATERS STACK		
S35	PIPELINE LIQUIDS TANK FUGITIVES		
S36	SEPERATOR VESSELS FUGITIVE		
Z127	PARTS WASHER FUGITIVES		
Z22	AREA FUGITIVES		
Z30	GAS RELEASE EVENTS FUGITIVES		



PERMIT MAPS

PROC
118 → STAC
S18

PROC
120 → STAC
S20

PROC
122 → STAC
Z22

PROC
123 → STAC
S23

PROC
124 → STAC
S24

PROC
125 → STAC
S25

PROC
126 → STAC
S34

PROC
127 → STAC
Z127

PROC
128 → STAC
S28

PROC
129 → STAC
S29

PROC
130 → STAC
Z30
CNTL
C130 → STAC
Z30

PROC
131 → CNTL
C131 → STAC
S31

PROC
132 → CNTL
C132 → STAC
S32

PROC
133 → STAC
S33

PROC
134 → STAC
S34

**PERMIT MAPS**

PROC
135 → STAC
S35

PROC
136 → STAC
S36

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

(1) Enforcement action

(2) Permit termination, revocation and reissuance or modification

(3) Denial of a permit renewal application

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

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

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

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

#010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]**Duty to Provide Information**

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements****#013 [25 Pa. Code § 127.522(a)]****Operating Permit Application Review by the EPA**

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

R3_Air_Apps_and_Notices@epa.gov

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

#014 [25 Pa. Code § 127.541]**Significant Operating Permit Modifications**

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

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

**SECTION B. General Title V Requirements****#018 [25 Pa. Code §§ 127.704, 127.705 & 127.707]****Fee Payment**

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

#024 [25 Pa. Code § 127.513]**Compliance Certification**

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements****#026 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]****Reporting Requirements**

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

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

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

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

#027 [25 Pa. Code § 127.3]**Operational Flexibility**

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
 - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
- (2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
- (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.
- (c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.
- (d) If the Title V facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:
- (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
 - (2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.
- (e) If the Title V facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.
- (f) When the Title V facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:
- (1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.
 - (2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Section B, Condition #026 of this permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

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

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

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

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

- (1) The applicable requirements are included and are specifically identified in this permit.
- (2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.

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

- (1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.
- (2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

(1) Construction or demolition of buildings or structures.

(2) Grading, paving and maintenance of roads and streets.

(3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.

(4) Clearing of land.

(5) Stockpiling of materials.

(6) N/A.

(7) N/A.

(8) N/A.

(9) Sources and classes of sources other than those identified in paragraphs (1)-(8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

(i) the emissions are of minor significance with respect to causing air pollution; and

(ii) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

(b) The permittee may not permit fugitive particulate matter to be emitted from sources specified in paragraph (a)(1)-(9) if the emissions are visible at the point the emissions pass outside the person's property.

002 [25 Pa. Code §123.13]**Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from any process in a manner that the concentration of particulate matter in the effluent gas exceeds any of the following:

(i) .04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

(ii) The rate determined by the formula:

$$A = 6000/E - 1$$

where:

A = Allowable emissions in grains per dry standard cubic foot, and

E = Effluent gas volume in dry standard cubic feet per minute,

when E is equal to or greater than 150,000 but less than 300,000.

(iii) .02 grain per dry standard cubic foot, when the effluent gas volume is greater than 300,000 dry standard cubic feet per minute.

**SECTION C. Site Level Requirements****# 003 [25 Pa. Code §123.2]****Fugitive particulate matter**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

004 [25 Pa. Code §123.21]**General**

(a) This section applies to sources except those subject to other provisions of this article, with respect to the control of sulfur compound emissions.

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

005 [25 Pa. Code §123.31]**Limitations**

The Owner/Operator 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 of the property of the Facility.

006 [25 Pa. Code §123.41]**Limitations**

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.

[Some sources at this TV facility have more stringent opacity limits established at the source level.]

007 [25 Pa. Code §123.42]**Exceptions**

The limitations of 123.41 (relating to limitations) shall not apply to a visible emission in any of the following instances:

- (1) when the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (3) When the emission results from sources specified in 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions).
- (4) When arising from the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.

008 [25 Pa. Code §127.203]**Facilities subject to special permit requirements.**

In accordance with 25 Pa. Code § 127.203(a)(5)(C)(iii)(A), the projected actual emissions of NSR regulated pollutants (non-attainment) established in Plan Approvals PA-30-00077B and PA-30-00077C are incorporated into Title V Operating Permit as source-specific emission limitations.

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

As established in RACT Operating Permit 30-000-077, Condition #20, reductions in the allowable emission rates below the levels established therein shall not be available as Emission Reduction Credits (ERCs) pursuant to 25 PA Code

**SECTION C. Site Level Requirements**

Section 127.206 unless the reductions are achieved through real reductions of actual or allowable emissions, whichever is lower, and unless the reductions are achieved through the installation of controls beyond those required by RACT or any other subsequent regulatory requirement.

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

The permittee shall limit the facility-wide emissions to the following levels based on any consecutive 12-month rolling period:

Air Contaminant - Emission Rate (tpy)

NOx – 137.3

CO – 128.1

PM – 16.1

PM10 – 16.

PM2.5 – 16.1

SOx – 34.2

VOC – 61.7

Formaldehyde – 3.1

HAP – 7.4

CO2e – 323,998

011 [25 Pa. Code §129.14]**Open burning operations**

(a) N/A

(b) No person may 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 owner/operator.
- (2) Malodorous air contaminants from the open burning are detectable outside the property of the owner/operator.
- (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.

(c) EXCEPTIONS: The requirements stated in 1-5 do not apply where the open burning operations result from:

- (1) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (2) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (3) A fire set solely for recreational or ceremonial purposes.
- (4) A fire set solely for cooking food.
- (5) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.

(d) Clearing and grubbing wastes. The following is applicable to clearing and grubbing wastes:

- (1) As used in this applicable requirement the following terms shall have the following meanings:

**SECTION C. Site Level Requirements**

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

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

(2) Subsection (a) notwithstanding clearing and grubbing wastes may be burned in an air basin subject to the following limitations:

(i) Upon receipt of a complaint or determination by the Department that an air pollution problem exists, the Department may order that the open burning cease.

(ii) Authorization for open burning under this paragraph does not apply to clearing and grubbing wastes that have been transported.

II. TESTING REQUIREMENTS.**# 012 [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 sources listed in this operating permit may be in excess of the limitations specified in, or established pursuant to this operating permit, the permittee may be required to conduct test methods and procedures deemed necessary by the Department to determine the actual emissions rate. Such testing shall be conducted in accordance with 25 Pa. Code Chapter 139, 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.

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

Performance testing shall be conducted as follows:

(a) The Permittee shall submit one electronic copy of a pre-test protocol to the Department for review at least 90 days prior to the performance of any U.S. EPA reference method stack test. All proposed performance test methods shall be identified in the pre-test protocol and approved by the Department prior to testing.

(b) The Permittee shall notify the Regional Air Quality Manager and Division of Source Testing and Monitoring at least 15 days prior to any performance test so that an observer may be present at the time of the test. This notification may be sent by email. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) Pursuant to 40 CFR Part 60.8(a), a complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emission test program.

(d) 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 information:

(1) A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.

(2) Permit number(s) and condition(s) which are the basis for the evaluation.

(3) Summary of results with respect to each applicable permit condition.

(4) Statement of compliance or non-compliance with each applicable permit condition.

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

**SECTION C. Site Level Requirements**

(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) All submittals shall be sent as an electronic submittal to ra-epstacktesting@pa.gov, with a cc to raepswstacktesting@pa.gov.

(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.

III. MONITORING REQUIREMENTS.**# 014 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

015 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The owner or operator shall verify compliance with the particulate mass emission limitations of 25 PA Code section 123.13 and the SO₂ limitations of 123.21 through tariff sheets, fuel sampling and analysis, or other alternate methods with prior written approval of the Department.

016 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

A facility-wide inspection shall be conducted at a minimum of once each day that sources at the facility are operating. The facility-wide inspection shall be conducted for the presence of the following:

1. Visible stack emissions;
2. Fugitive emissions; and
3. Potentially objectionable odors at the property line.

These observations are to ensure continued compliance with source-specific visible emission limitations, fugitive emissions prohibited under 25 Pa. Code § 123.1 or 25 Pa. Code § 123.2, and malodors prohibited under 25 Pa. Code §123.31. Observations for visible stack emissions shall be conducted during daylight hours and all observations shall be conducted while sources are in operation. If any visible stack emissions, fugitive emissions, or potentially objectionable odors are apparent, the Owner/Operator shall take corrective action. These observations determine whether, or not, these conditions exist. They do not quantify the level of existing conditions. Therefore, the observations for presence, or lack of, visible emissions do not require that they be performed by a person certified as a qualified observer for EPA Method 9 for Visual Determination of the Opacity of Emissions from Stationary Sources.

Equipment at the plant shall not operate in violation of 25 Pa. Code §123.11, 25 Pa. Code §123.2, 25 Pa. Code §123.31, and 25 Pa. Code §123.41.

A stack appearance problem that persists longer than 24 hours shall be visually observed by an opacity reader certified to Title 40, Code of Federal Regulations, Part 60, Appendix A, Method 9, for compliance with the opacity limits of Pa Code Title 25 Section 123.41.

If the facility becomes unmanned during the term of this permit, the company shall notify the Department and the monitoring shall be conducted once a week effective from the date the facility becomes unmanned.

**SECTION C. Site Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

As established in RACT Operating Permit 30-000-077, Condition #21, the permittee shall maintain records in accordance with the recordkeeping requirements of 25 PA Code Section 129.95. At a minimum, the following records shall be kept for each RACT-affected source: operating hours, daily fuel consumption, operating pressures, and operating temperatures. These records shall be maintained on file for not less than five years and shall be made available to the Department upon request.

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

The owner/Operator shall maintain the following comprehensive and accurate records:

- a. A monthly 12-month rolling total of gas release event VOC emissions.
- b. The date, start time, and duration of startup, shutdown, and low temperature periods for each turbine as they are defined in the emission limitation conditions.
- c. Records including a description of testing methods, results, all turbines operating data collected during tests, and a copy of the calculations performed to determine compliance with emission limits for each turbine.
- d. Maintenance procedures and schedules for each air contamination source and air cleaning device authorized under this operating permit.
- e. Maintenance conducted on each air contamination source and air cleaning device authorized under this operating permit.
- f. Records of a natural gas analysis performed at least once every year on the inlet natural gas to the facility demonstrating that total sulfur content does not exceed 0.060 lb/MMBtu of heat input consistent with 40 CFR §60.4365.
- g. Records of a fractional gas analysis performed at least once every six months on a representative sample of natural gas flowing through the facility, to include higher heating value.
- h. Inspections for visible stack emissions, fugitive emissions, and potentially objectionable odors including the date, time, name, and title of the observer, along with any corrective action taken as a result.
- i. Records of any leak detected and associated repair activity through the leak detection and repair program (LDAR program) or maintenance program.

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

All logs and required records shall be maintained on site, or at an alternative location acceptable to the Department, for a minimum of five years and shall be made available to the Department upon request.

020 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall maintain a record of all visible stack emission, fugitive emission, and potentially objectionable odor surveys performed. The records shall include the date, time, name and title of the observer, whether stack emissions, fugitive emissions, or potentially objectionable odors were observed, and any corrective action. Records shall be kept on site for a minimum of 5 years and made available to the Department upon request.

021 [25 Pa. Code §135.5]**Recordkeeping**

Source owners or operators shall maintain and make available upon request by the Department records including computerized records that may be necessary to comply with § 135.21 (relating to reporting; and emission statements). These may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air

**SECTION C. Site Level Requirements**

contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

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

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

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

(c) The report shall describe the following:

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

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

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

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

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

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

Annual emissions reporting shall be conducted as follows:

a) In accordance with 25 Pa. Code §135.3, the permittee shall submit to the Department via AES*Online or AES*XML at www.depgreenport.state.pa.us/ by March 1 of each year, a facility inventory report for the preceding calendar year for all sources authorized under this operating permit. The inventory report shall include all emissions information for all sources operated during the preceding calendar year. Emissions data including, but not limited, to the following shall be reported: carbon monoxide (CO); oxides of nitrogen (NOx); particulate matter less than 10 micrometers in diameter (PM10); particulate matter less than 2.5 micrometers in diameter (PM2.5); sulfur dioxide (SO2); volatile organic compounds (VOC);

**SECTION C. Site Level Requirements**

total hazardous air pollutants (HAP); speciated HAP including, but not limited to, benzene, ethyl benzene, formaldehyde, n-hexane, toluene, isomers and mixtures of xylenes, and 2,2,4-trimethylpentane; carbon dioxide (CO₂); methane (CH₄); and nitrous oxide (N₂O).

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

024 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

In accordance with 25 Pa. Code § 127.511(c), with respect to reporting, the permit shall incorporate the applicable reporting requirements and require the following:

(1) Submittal of reports of required monitoring at least every 6 months. Instances of deviations from permit requirements shall be clearly identified in the reports. Required reports shall be certified by a responsible official.

(2) Reporting of deviations from permit requirements within the time required by the terms and conditions of the permit including those attributable to upset conditions as defined in the permit, the probable cause of the deviations and corrective actions or preventive 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.

025 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

Owner/operator shall submit the semi-annual monitoring reports for this facility by January 31 and July 31 of each year. The January 31 semi-annual monitoring report shall cover the period from July 1 through December 31. This semi-annual monitoring report may be included in January 31 Title V Compliance Certification required by Title 25 PA Code § 127.513. The July 31 semi-annual monitoring report shall cover the period from January 1 through June 30. However, in accordance with Title 25 PA Code § 127.511(c), in no case shall the semi-annual monitoring report be submitted less often than every six (6) months. This may require that an interim semi-annual monitoring report (covering a period less than six (6) months) be submitted to bring the facility into compliance with this schedule.

026 [25 Pa. Code §127.513]**Compliance certification.**

Permittee shall submit Compliance Certification Forms sufficient to demonstrate compliance with terms and conditions contained in the permit. Each Compliance Certification shall include the following:

- (a) The identification of each term or condition of the permit that is the basis of the certification.
- (b) The compliance status.
- (c) The methods used for determining the compliance status of the source, currently and over the reporting period.
- (d) Whether compliance was continuous or intermittent.
- (e) Other facts the Department may require to determine the compliance status of the source.

Compliance Certifications shall be submitted to the Administrator of the EPA at the following e-mail address: R3_APD_Permits@epa.gov, as well as to the Department at 400 Waterfront Dr, Pittsburgh, PA 15222.

027 [25 Pa. Code §127.513]**Compliance certification.**

Owner/operator shall submit a Title V Compliance Certification for this facility by January 31 of each year. The Title V Compliance Certification shall cover the previous calendar year, for the period January 1 through December 31. However, in accordance with Title 25 PA Code § 127.513(5)(i), in no case shall the Title V Compliance Certification be submitted less often than annually. This may require that an interim Title V Compliance Certification (covering a period less than one year) be submitted to bring the facility into compliance with this schedule.

**SECTION C. Site Level Requirements****# 028 [25 Pa. Code §135.21]****Emission statements**

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

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

- (1) A more frequent submission is required by the EPA.
- (2) Analysis of the data on a more frequent basis is necessary to implement the requirements of the act.

029 [25 Pa. Code §135.4]**Report format**

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

030 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]**Subpart A - General Provisions****Address.**

The Facility is subject to New Source Performance Standards from 40 CFR Part 60 Subparts JJJJ and KKKK. In accordance with 40 CFR §§60.4, copies of all requests, reports, applications, submittals and other communications regarding affected sources shall be forwarded to both EPA and the Department at the addresses listed below unless otherwise noted.

Director	PADEP
Air Protection Section	Air Quality Program
Mail Code 3AP00	400 Waterfront Drive
U.S. EPA, Region III	Pittsburgh, PA 15222-4745
1650 Arch Street	
Philadelphia, PA 19103-2029	

031 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.13]**Subpart A--General Provisions****Addresses of State air pollution control agencies and EPA Regional Offices.**

The Facility is subject to National Emission Standards for Hazardous Air Pollutants from 40 CFR Part 63 Subpart ZZZZ. In accordance with 40 CFR §63.13; copies of all requests, reports, applications, submittals and other communications regarding affected sources shall be forwarded to both EPA and the Department at the addresses listed below unless otherwise noted.

Director	PADEP
Air Protection Section	Air Quality Program
Mail Code 3AP00	400 Waterfront Drive
U.S. EPA, Region III	Pittsburgh, PA 15222-4745
1650 Arch Street	
Philadelphia, PA 19103-2029	

**SECTION C. Site Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 032 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

(c) A person responsible for any source specified in subsections (a)(1) -- (7) or (9) shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

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

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

(3) Paving and maintenance of roadways.

(4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

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

All air contamination sources and air cleaning devices authorized under this Operating Permit shall be operated per the manufacturer's specifications and maintained according to the manufacturer's recommended maintenance schedule; or a developed maintenance plan which is at least as stringent as the manufacturer's or is certified by the manufacturer to satisfy performance warranties for control efficiency, outlet emission rate, and other air contamination aspects of the air contamination source or air cleaning device as appropriate.

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

The entire facility is subject to the LDAR requirements of Section D, Source ID 122: Fugitive Emissions.

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

The Owner/Operator shall provide written notice to the Department upon deactivation of any active air contamination sources at the Facility. This notice shall:

- Identify the deactivated air contamination sources by make, model, and current Department permit number for operation;
- Include the date of deactivation; and
- Describe the method of deactivation.

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

Interlocks may be removed from Mars Turbine #1 100-150002S II (Source ID 118) to allow for bidirectional flow of natural gas.

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

Due to the shutdown of four Cooper Bessemer engines (Sources 103, 104, 105, and 107) and one Ingersol Rand engine (Source 113) as required by Plan Approvals PA-30-00077B and PA-30-00077C, Texas Eastern has generated the following Emission Reduction Credits (ERCs). In accordance with PA Code Title 25 § 127.207, these ERCs have been determined to be surplus, permanent, quantified and enforceable.

117 tons of NO_x ERCs,
24 tons of CO ERCs,
11 tons of VOC ERCs, and
4 tons of PM ERCs.

**SECTION C. Site Level Requirements****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: 118

Source Name: 15000 HP, SOLAR MARS TURBINE #1 100-150002S II, SN 0157M

Source Capacity/Throughput:

PROC
118STAC
S18**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

In accordance with Title 25 Pa. Code §123.21(b), SO₂ emissions from Turbine #1 shall not exceed 500 ppmvd. Per PA DEP's April 17, 2014 issuance of a Minor Permit Modification for TVOP #30-00077, Texas Eastern shall demonstrate compliance with SO₂ limitations using a current tariff sheet that specifies that the total sulfur content of the natural gas is 20.0 grains/100 SCF or less and engineering calculations, in lieu of quarterly sampling.

Compliance with this permit condition ensures compliance with 40 CFR 60.334(h)(3)(i).

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

As established in Plan Approval PA-30-00077A, the steady state emission rates of the uprated Solar Mars 100-15000S Turbine #1 shall be limited as follows:

25 ppmvd Nitrogen Oxides (@ 15% O₂)

12.52 Lbs/Hr Nitrogen Oxides

85 Tons/Year Nitrogen Oxides

25 ppmvd Non-Methane Volatile Organic Compounds

1 Lbs/Hr Non-Methane Volatile Organic Compounds

4.3 Tons/Year Non-Methane Volatile Organic Compounds

50 ppmvd Carbon Monoxide (@15% O₂)

5.3 Lbs/Hr Carbon Monoxide

23.2 Tons/Year Carbon Monoxide

0.5 Lbs/Hr Sulfur Oxides (as SO₂)1.9 Tons/Year Sulfur Oxides (as SO₂)**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

As established in Plan Approval PA-30-00077A, the steady state emission limits established elsewhere for Turbine #1 do not apply during startup, shutdowns, and low ambient temperature events. For purposes of this condition, startups shall last for 18 minutes, shutdowns shall last for 18 minutes, and low ambient temperature events are estimated at 21 hours per year. Emissions from periods of startup, shutdown, and low ambient temperature events shall be tracked and included with annual emissions. The following limits are established for these non-steady state operations:

Pollutant Scenario Emission Limit Averaging Time

Pollutant	Scenario	Emission Limits	Averaging Time
NO _x	Startup	50 ppmvd at 15% O ₂	60-minute avg
	Shutdown	62 ppmvd at 15% O ₂	
	-20oF<T=0oF	42 ppmvd at 15% O ₂	
	T=-20oF	120 ppmvd at 15% O ₂	
	All	62.21 lbs/hr	

**SECTION D. Source Level Requirements**

CO	Startup	10,000 ppmvd at 15% O ₂	
	Shutdown	8,800 ppmvd at 15% O ₂	
	-20°F < T = 0°F	100 ppmvd at 15% O ₂	
	T = -20°F	150 ppmvd at 15% O ₂	
	All	593.56 lbs/hr	60-minute avg
VOC	Startup	1,000 ppmvd at 15% O ₂	
	Shutdown	880 ppmvd at 15% O ₂	
	-20°F < T = 0°F	50 ppmvd at 15% O ₂	
	T = -20°F	75 ppmvd at 15% O ₂	
	All	7.45 lbs/hr	60-minute avg

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

No less often than once every five years, permittee shall conduct compliance tests on the exhaust from Turbine #1 to demonstrate compliance with the NO_x, CO, and VOC limits contained herein.

III. MONITORING REQUIREMENTS.**# 005 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

(a) The owner or operator shall verify compliance with the particulate mass emission rate of 25 PA Code Section 123.13 and SO₂ limitations of 25 PA Code Section 123.21 through fuel sampling and analysis consistent with FERC requirements.

(b) Data and information required to determine compliance shall be maintained and submitted to the Department every six months.

(c) Alternative methods for demonstration of compliance subsection under subsection (a) must have prior written approval.

006 [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.**

In accordance with the August 14, 1987 Environmental Protection Agency (EPA) Memorandum for Custom Fuel Sampling for Stationary Gas Turbines:

(a) Monitoring of fuel nitrogen content shall not be required while natural gas is the only fuel fired in the gas turbine.

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.**

(h) The owner or operator of any stationary gas turbine subject to the provisions of this subpart:

(1) Shall monitor the total sulfur content of the fuel being fired in the turbine, except as provided in paragraph (h)(3) of this section. The sulfur content of the fuel must be determined using total sulfur methods described in §60.335(b)(10). Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than 0.4 weight percent (4000 ppmw), ASTM D4084-82, 94, D5504-01, D6228-98, or Gas Processors Association Standard 2377-86 (all of which are incorporated by reference-see §60.17), which measure the major sulfur compounds may be used; and

(2) N/A

(3) Notwithstanding the provisions of paragraph (h)(1) of this section, the owner or operator may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in §60.331(u), regardless of whether an existing custom schedule approved by the administrator for subpart GG

**SECTION D. Source Level Requirements**

requires such monitoring. The owner or operator shall use one of the following sources of information to make the required demonstration:

(i) The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or

(ii) Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter is required.

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.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.333]

Subpart GG - Standards of Performance for Stationary Gas Turbines

Standard for sulfur dioxide.

The permittee shall comply with one or the other of the following conditions:

(a) The permittee shall not discharge into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen and on a dry basis.

(b) The permittee shall not burn in any stationary gas turbine any fuel which contains sulfur in excess of 0.8 percent by weight.

VII. ADDITIONAL REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In addition to emission limitations already incorporated into TVOP-30-00077, emission rates from Mars Turbine #1 100-150002S II shall be limited as follows. [Additional authority for this condition is derived from 25 Pa Code §129.97(g)(2)(iv)(C)]:

Air Contaminant	Operating Condition	Emission Rate
VOC	Normal	9 ppmvd (as propane @ 15% O ₂)

For purposes of this condition, the "normal" operating scenario excludes startup, shutdown, and low temperature operating scenarios. Startup is defined as beginning when air contaminants begin to be emitted to the atmosphere, and shall last no greater than 18 minutes. Shutdown is defined as ending when contaminants are no longer being emitted to the atmosphere, and shall last no greater than 18 minutes. Low temperature is defined as less than 0°F.

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

**SECTION D. Source Level Requirements**

Source ID: 120

Source Name: EMERGENCY GENERATOR #2 (675 HP ENGINE)

Source Capacity/Throughput: 5.740 MMBTU/HR

PROC
120STAC
S20**I. RESTRICTIONS.****Operation Hours Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

As established in RACT Operating #30-000-077, Condition # 6, the annual hours of operation of Source 120 Emergency Generator #2 and Source 121 Emergency Generator # 3 shall be limited to 500 hours each in any consecutive 12 month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.**# 002 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

(a) The owner or operator shall verify compliance with the particulate mass emission rate of 25 PA Code Section 123.13 and SO₂ limitations of 25 PA Code Section 123.21 through fuel sampling and analysis consistent with FERC requirements.

(b) Data and information required to determine compliance shall be maintained and submitted to the Department every six months.

(c) Alternative methods for demonstration of compliance subsection under subsection (a) must have prior written approval.

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

Per 25 Pa Code §129.112(c), the owner and operator of a source listed in this subsection that is located at a major NO_x 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.

**SECTION D. Source Level Requirements**

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Emergency generator # 2 shall be maintained and operated in accordance with with manufacturer's recommended specifications.

VII. ADDITIONAL REQUIREMENTS.

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

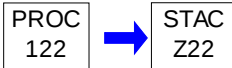
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**SECTION D. Source Level Requirements**

Source ID: 122

Source Name: AREA FUGITIVES

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.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(i) No later than 30 days after an emission source commences operation, and at least monthly thereafter, the owner or operator of a facility shall conduct an AVO inspection.

(ii) No later than 60 days after initial startup, and quarterly thereafter, the owner or operator shall conduct an LDAR program using either an OGI camera, a gas leak detector that meets the requirements of 40 CFR Part 60, Appendix A-7, Method 21, or other leak detection methods approved by the Division of Source Testing and Monitoring.

(iii) The detection devices must be operated and maintained in accordance with manufacturer-recommended procedures, as required by the test method, or a Department-approved method.

(iv) A leak is defined as:

(A) Any positive indication, whether audible, visual, or odorous, determined during an AVO inspection;

(B) Any visible emissions detected by an OGI camera calibrated according to 40 CFR § 60.18 and a detection sensitivity level of 60 grams/hour; or

(C) A concentration of 500 ppm calibrated as methane or greater detected by an instrument reading.

(v) For quarterly inspections using a gas leak detector in accordance with 40 CFR Part 60, Appendix A-7, Method 21, the owner or operator may choose to adjust the detection instrument readings to account for the background organic concentration level as determined according to the procedures in Section 8.3.2.

(vi) Any leak detected from a fugitive emission component shall be repaired by the owner or operator of the facility as expeditiously as practicable. A first attempt at repair must be attempted within 5 calendar days of detection, and repair must be completed no later than 15 calendar days after the leak is detected unless:

(A) The owner or operator must purchase parts, in which case the repair must be completed no later than 10 calendar days after the receipt of the purchased parts; or

(B) The repair or replacement is technically infeasible, would require a vent blowdown, a compressor station, processing plant or transmission station shutdown, or would be unsafe to repair during operation of the unit, in which case the repair or replacement must be completed during the next scheduled compressor station, processing plant or transmission station shutdown, after a planned vent blowdown or within 2 years, whichever is earlier.

(vii) Once a fugitive emission component has been repaired or replaced, the owner or operator must resurvey the

**SECTION D. Source Level Requirements**

component as soon as practicable, but no later than 30 calendar days after the leak is repaired.

(A) For repairs that cannot be made during the monitoring survey when the leak is initially found, either a digital photograph must be taken of the component or the component must be tagged for identification purposes.

(B) A leak is considered repaired if:

(1) There are no detectable emissions consistent with Section 8.3.2 of 40 CFR Part 60, Appendix A-7, Method 21;

(2) A leak concentration of less than 500 ppm as methane is detected when the gas leak detector probe inlet is placed at the surface of the component;

(3) There is no visible leak image when using an OGI camera calibrated at a detection sensitivity level of 60 grams/hour; or

(4) There is no bubbling at the leak interface using a soap solution bubble test specified in Section 8.3.3 of 40 CFR Part 60, Appendix A-7, Method 21.

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

For fugitive emissions components, the owner or operator shall maintain the following records:

(a) Records of each monitoring survey which must include:

(i) The facility name and location;

(ii) The Operating Permit authorization number;

(iii) The date, start time, and end time of the survey;

(iv) The name of the operator(s) performing the survey;

(v) The monitoring instrument used;

(vi) The ambient temperature, sky conditions, and maximum wind speed at the time of the survey;

(vii) Any deviations from the monitoring plan or a statement that there were none; and

(viii) Documentation of each fugitive emission including:

(A) The identification of each component from which fugitive emissions were detected;

(B) The instrument reading of each fugitive emissions component that meets the leak definition (See monitoring requirements for definition).

(C) The status of repair of each component including:

(1) The repair methods applied in each attempt to repair the component;

(2) The tagging or digital photographing of each component not repaired during the monitoring survey in which the fugitive emissions were discovered;

(3) The reasons a component was placed on delay of repair;

(4) The date of successful repair of the component; and

(5) The information on the instrumentation or method used to resurvey the component after repair, if it was not completed during the monitoring survey in which the fugitive emissions were discovered.

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

- The permittee shall maintain records that demonstrate to the Department that the actual emissions of VOC from individual sources in the following area fugitive source categories are less than 2.7 tpy per individual source: case vents, compressor seals, pigging operations, station blowdowns, piping blowdowns, and pneumatic starters.

- The records shall be maintained on a monthly basis and the VOC emissions shall be calculated on a 12-month rolling total.

- The permittee shall calculate VOC emissions using AP-42 emission factors, EPA accepted estimation methodologies

**SECTION D. Source Level Requirements**

(such as 40 CFR 98 Subpart W, EPA Equipment Leaks Protocol, or equivalent), manufacturer supplied emission factors, mass material balance, performance (stack) test data, or other method(s) acceptable to the Department.

- All 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 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The emissions from fugitive emissions components during the reporting period must be included in the annual emissions inventory report.

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall conduct leak detection for emission reporting. Leak repairs are to be conducted under the permittee's normal operation procedures if possible.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Per 25 Pa Code §129.112(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.

VII. ADDITIONAL REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The entire facility is subject to the LDAR requirements of this section.

008 [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 components at a well site...which is the collection of fugitive emissions components at a compressor station?

Individual sources within Source ID 122 that are subject to 40 CFR Part 60 Subpart OOOOa shall comply with all applicable requirements of the Subpart. In the event that the Federal Subpart that is the subject of this Source is revised, the permittee shall comply with the revised version of the subpart.

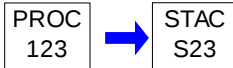
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 123

Source Name: LIQUID STORAGE TANKS/PRESSURE VESSELS

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

Per 25 Pa Code §129.112(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.

VII. ADDITIONAL REQUIREMENTS.

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

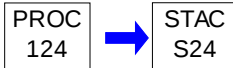
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**SECTION D. Source Level Requirements**

Source ID: 124

Source Name: TWO (2) PIPELINE CONDENSATE STORAGE TANKS

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

Per 25 Pa Code §129.112(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.

002 [25 Pa. Code §129.57]**Storage tanks less than or equal to 40,000 gallons capacity containing VOCs**

The provisions of this section shall apply to above ground stationary storage tanks with a capacity equal to or greater than 2,000 gallons which contain volatile organic compounds with vapor pressure greater than 1.5 psia (10.5 kilopascals) under actual storage conditions. Storage tanks covered under this section shall have pressure relief valves which are maintained in good operating condition and which are set to release at no less than .7 psig (4.8 kilopascals) of pressure or .3 psig (2.1 kilopascals) of vacuum or the highest possible pressure and vacuum in accordance with state or local fire codes or the National Fire Prevention Association guidelines or other national consensus standards acceptable to the Department. Section 129.56(g) (relating to storage tanks greater than 40,000 gallons capacity containing volatile organic compounds) applies to this section. Petroleum liquid storage vessels which are used to store produced crude oil and condensate prior to lease custody transfer shall be exempt from the requirements of this section.

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

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

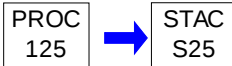
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**SECTION D. Source Level Requirements**

Source ID: 125

Source Name: 15000 HP, SOLAR MARS TURBINE #2 100-150002S III, SN 1194M

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

In accordance with Title 25 Pa. Code § 123.21(b), SO₂ emissions from Turbine #2 shall not exceed 500 ppmvd. Compliance with SO₂ limitations shall be determined using a current tariff sheet that specifies that the total sulfur content of the natural gas is 20.0 grains / 100 SCF or less and engineering calculations.

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

Turbine # 2 shall be equipped with dry low NO_x combustion technology along with oxidation catalyst to control emissions of Carbon Monoxide, Volatile Organic Compounds, and formaldehyde.

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

The steady state emission limits established herein for Turbine # 2 do not apply during startup, shutdown, and low ambient temperature events.

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

Emissions from Turbine #2, during steady state operation, shall not exceed the following:

Pollutant	Scenario	Emission Limit	Averaging Time
NO _x	Normal	15 ppmvd at 15% O ₂	15-minute avg
		7.55 lbs/hr	60-minute avg
		30.12 tons per year	12-month rolling avg
CO		25 ppmvd at 15% O ₂	15-minute avg
		0.38 lbs/hr	60-minute avg
		8.97 tons per year	12-month rolling avg
Formaldehyde		91 ppbvd at 15% O ₂	
		0.1 tons per year	

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

Emissions from Turbine #2, during startup, shutdown, and low ambient temperature events, shall not exceed the following:

Pollutant	Scenario	Emission Limits	Averaging Time
NO _x	Startup	50 ppmvd at 15% O ₂	60-minute avg
	Shutdown	62 ppmvd at 15% O ₂	
	-20<T=0F	42 ppmvd at 15% O ₂	
	T<-20F	120 ppmvd at 15% O ₂	
	All	62.21 lbs/hr	

**SECTION D. Source Level Requirements**

CO	Startup Shutdown -20F<T=0F T<-20F All	10,000 ppmvd at 15% O2 8,800 ppmvd at 15% O2 100 ppmvd at 15% O2 150 ppmvd at 15% O2 297.09 lbs/hr	60-minute avg
VOC	Startup Shutdown -20F<T=0F T<-20F All	1,000 ppmvd at 15% O2 880 ppmvd at 15% O2 50 ppmvd at 15% O2 75 ppmvd at 15% O2 5.49 lbs/hr	60-minute avg
# 006 [25 Pa. Code §127.441] Operating permit terms and conditions. The opacity of the exhaust from Turbine #2 shall not exceed 10% at any time.			
# 007 [25 Pa. Code §127.441] Operating permit terms and conditions. Particulate emissions from Turbine #2 shall not exceed 0.02 grains per dry standard cubic foot.			
# 008 [25 Pa. Code §127.441] Operating permit terms and conditions. In addition to emission limitations already incorporated into TVOP-30-00077, emission rates from Mars Turbine #2 100-150002S III shall be limited as follows. [Additional authority for this condition is derived from 25 Pa Code §129.97(g)(2)(iv)(C)]:			
Air Contaminant	Operating Condition	Emission Rate	Averaging Time
VOC	Normal	9 ppmvd (as propane @ 15% O2)	60-minute avg
For purposes of this condition, the "normal" operating scenario excludes startup, shutdown, and low temperature operating scenarios. Startup is defined as beginning when air contaminants begin to be emitted to the atmosphere, and shall last no greater than 18 minutes. Shutdown is defined as ending when contaminants are no longer being emitted to the atmosphere, and shall last no greater than 18 minutes. Low temperature is defined as less than 0°F.			
# 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4330] Subpart KKKK - Standards of Performance for Stationary Combustion Turbines What emission limits must I meet for sulfur dioxide (SO2)? In accordance with 40 CFR § 60.4330(a)(2), permittee shall not burn in Turbine #2 any fuel which contains total potential sulfur emissions in excess of 0.060 lb SO2/MMBtu heat input.			

II. TESTING REQUIREMENTS.

# 010 [25 Pa. Code §127.441] Operating permit terms and conditions. In addition to the annual NOx testing established elsewhere, no less often than once every five years, permittee shall conduct compliance tests on the exhaust from Turbine #2 to demonstrate compliance with the NOx, CO, VOC and formaldehyde limits contained herein.	
# 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4340] Subpart KKKK - Standards of Performance for Stationary Combustion Turbines How do I demonstrate continuous compliance for NOX if I do not use water or steam injection? In accordance with 40 CFR § 60.4340(a), permittee shall demonstrate continuous compliance with NOX limitations by performing annual performance tests in accordance with 40 CFR § 60.4400. If the NOX emission result from the performance test is less than or equal to 75 percent of the NOX emission limit for the	

**SECTION D. Source Level Requirements**

turbine, you 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, you must resume annual performance tests.

III. MONITORING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Emissions from periods of startup, shutdown, and low ambient temperature events shall be tracked and included with annual emissions.

IV. RECORDKEEPING REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Permittee shall continuously record the following for Turbine #2:

Hours of operation, fuel consumption, date, start time and end time of all startup, shutdown, and low ambient temperature events, and catalyst inlet temperatures. All records shall be retained for five years, and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Permittee shall comply with the applicable reporting requirements of 40 CFR § 60.7 and 40 CFR § 60.4375. Any owner or operator subject to the provisions of section 60.7 shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

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

VI. WORK PRACTICE REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Permittee shall operate and maintain Turbine #2, associated air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, low ambient temperature, and malfunction.

VII. ADDITIONAL REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Turbine #2 is subject to the applicable requirements of 40 CFR 60, Subpart KKKK - Standards of Performance for Stationary Combustion Turbines.

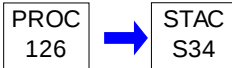
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**SECTION D. Source Level Requirements**

Source ID: 126

Source Name: 14 MISCELLANEOUS GAS HEATERS (<1.0 MMBTU/HR EACH)

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

Per 25 Pa Code §129.112(c), the owner and operator of a source listed in this subsection that is located at a major NO_x 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.

VII. ADDITIONAL REQUIREMENTS.

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

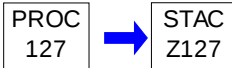
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**SECTION D. Source Level Requirements**

Source ID: 127

Source Name: PARTS WASHER

Source Capacity/Throughput:

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

Emissions from the parts washer shall not exceed 0.42 tons VOCs per year. Compliance with this limit shall be demonstrated using purchase records and material balance calculations.

002 [25 Pa. Code §129.63]**Degreasing operations**

(a) The 25 Pa. Code §129.63 applies to cold cleaning machines that use two gallons or more of solvents containing greater than five percent volatile organic compounds (VOC) content by weight for the cleaning of metal parts.

(b) The permittee 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 percent VOC by weight, measured at 20°C (68°F) containing VOCs.

(c) The requirement in above (b) 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 this condition will result in unsafe operating conditions.

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

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).

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 003 [25 Pa. Code §129.63]****Degreasing operations**

(a) 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.

(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).

**SECTION D. Source Level Requirements**

(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).

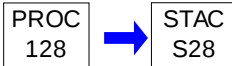
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**SECTION D. Source Level Requirements**

Source ID: 128

Source Name: 15000 HP, SOLAR MARS TURBINE #3 100-150002S III, SN 1249M

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

In accordance with Title 25 Pa. Code § 123.21(b), SO₂ emissions from Turbine #3 shall not exceed 500 ppmvd. Compliance with SO₂ limitations shall be determined using a current tariff sheet that specifies that the total sulfur content of the natural gas is 20.0 grains / 100 SCF or less and engineering calculations, or other Department approved method.

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

Short term emissions from Turbine #3, during normal operation, shall not exceed the following:

Pollutant	Scenario	Emission Limit	Averaging Time
NO _x	Normal	15 ppmvd at 15% O ₂	15-minute avg
		7.55 lbs/hr	60-minute avg
CO		25 ppmvd at 15% O ₂	15-minute avg
		0.38 lbs/hr	60-minute avg
Formaldehyde		91 ppbvd at 15% O ₂	15-minute avg

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

The short term emission limits contained herein do not apply during startup, shutdown, and low ambient temperature events. For purposes of this condition, startups shall commence when contaminants begin to be emitted to the ambient air, and shall have a duration of 18 minutes, shutdowns shall end when contaminants are no longer being emitted to the ambient air, and shall have a duration of 18 minutes, and hours of operation when ambient temperatures are -20F<T<=0F have been estimated at 21 hours per year.

Emissions from periods of startup, shutdown, and low ambient temperature events shall be tracked and included with annual emissions.

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

Turbine #3 shall be equipped with dry low NO_x combustion technology along with oxidation catalyst to control emissions of Carbon Monoxide, Volatile Organic Compounds, and formaldehyde.

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

Emissions from Turbine #3, during startup, shutdown, and low ambient temperature events, shall not exceed the following:

Pollutant	Scenario	Emission Limit	Averaging Time
NO _x	Startup	50 ppmvd at 15% O ₂	60-minute avg
	Shutdown	62 ppmvd at 15% O ₂	
	-20<T=0F	42 ppmvd at 15% O ₂	
	T<-20F	120 ppmvd at 15% O ₂	
	All	62.21 lbs/hr	

**SECTION D. Source Level Requirements**

CO	Startup Shutdown -20F<T=0F T<-20F All	10,000 ppmvd at 15% O2 8,800 ppmvd at 15% O2 100 ppmvd at 15% O2 150 ppmvd at 15% O2 297.09 lbs/hr	60-minute avg
VOC	Startup Shutdown -20F<T=0F T<-20F All	1,000 ppmvd at 15% O2 880 ppmvd at 15% O2 50 ppmvd at 15% O2 75 ppmvd at 15% O2 5.49 lbs/hr	60-minute avg
# 006 [25 Pa. Code §127.441] Operating permit terms and conditions. The opacity of the exhaust from Turbine # 3 shall not exceed 10% at any time.			
# 007 [25 Pa. Code §127.441] Operating permit terms and conditions. Particulate emissions from Turbine #3 shall not exceed 0.02 grains per dry standard cubic foot.			
# 008 [25 Pa. Code §127.441] Operating permit terms and conditions. In addition to emission limitations already incorporated into TVOP-30-00077, emission rates from Mars Turbine #3 100-150002S III shall be limited as follows. [Additional authority for this condition is derived from 25 Pa Code §129.97(g)(2)(iv)(C)]:			
Air Contaminant	Operating Condition	Emission Rate	Averaging Time
VOC	Normal	9 ppmvd (as propane @ 15% O2)	60-minute avg
For purposes of this condition, the "normal" operating scenario excludes startup, shutdown, and low temperature operating scenarios. Startup is defined as beginning when air contaminants begin to be emitted to the atmosphere, and shall last no greater than 18 minutes. Shutdown is defined as ending when contaminants are no longer being emitted to the atmosphere, and shall last no greater than 18 minutes. Low temperature is defined as less than 0°F.			
# 009 [25 Pa. Code §127.441] Operating permit terms and conditions. Total annual emissions from Turbine #3 shall not exceed the following:			
Pollutant	Scenario	Emission Limit	Averaging Time
NOx	All	30.12 tons per year	12-month rolling avg
CO		8.97 tons per year	12-month rolling avg
VOC		2.03 tons per year	12-month rolling avg
Formaldehyde		0.1 tons per year	12-month rolling avg
# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4305] Subpart KKKK - Standards of Performance for Stationary Combustion Turbines Does this subpart apply to my stationary combustion turbine? Turbine #3 is subject to the applicable requirements of 40 CFR 60, Subpart KKKK - Standards of Performance for Stationary			

**SECTION D. Source Level Requirements**

Combustion Turbines.

011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4330]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What emission limits must I meet for sulfur dioxide (SO₂)?**

In accordance with 40 CFR § 60.4330(a)(2), permittee must not burn in Turbine #3 any fuel which contains total potential sulfur emissions in excess of 0.060 lb SO₂/MMBtu heat input.

012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4330]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What emission limits must I meet for sulfur dioxide (SO₂)?**

In accordance with 60 CFR 60.4330, permittee shall operate and maintain Turbine #3, associated air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

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

In addition to the annual NO_x testing established elsewhere, no less often than once every five (5) years, compliance tests on the exhaust from Turbine #3 shall be conducted to demonstrate compliance with the NO_x, CO, VOC and formaldehyde limits contained herein.

014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4340]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I demonstrate continuous compliance for NO_x if I do not use water or steam injection?**

In accordance with 40 CFR § 60.4340(a), permittee shall demonstrate continuous compliance with NO_x limitations by performing annual performance tests in accordance with 40 CFR § 60.4400.

If the NO_x emission result from the performance test is less than or equal to 75 percent of the NO_x emission limit for the turbine, you 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 NO_x emission limit for the turbine, you must resume annual performance tests.

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

Permittee shall continuously record the following for Turbine # 3:

Hours of operation, fuel consumption, date, start time and end time of all startup, shutdown, and low ambient temperature events, and catalyst inlet temperatures. All records shall be retained for five years, and shall be made available to the Department upon request.

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

**SECTION D. Source Level Requirements**

Permittee shall comply with the applicable reporting requirements of 40 CFR § 60.7, 40 CFR § 60.4375, and 40 CFR § 63.6145.

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: 129

Source Name: EMERGENCY GENERATOR #4 (440 HP ENGINE)

Source Capacity/Throughput: 7.470 MMBTU/HR

PROC
129STAC
S29**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

For Generator #4, the permittee shall meet the following emissions standards for NO_x, CO and VOC as specified below:

- (a) NO_x - 2.0 g/hp-hr
- (b) CO - 4.0 g/hp-hr
- (c) VOC - 1.0 g/hp-hr

[Notes: 1. Additional authority for this permit condition is derived from NSPS Subpart JJJJ for spark ignition lean burn engines, § 60.4233(e) and Table I to Subpart JJJJ.
2. Reference Note (d) to Table I, for the purpose of this subpart, when calculating emissions of VOC, the emission of formaldehyde shall not be included.]"

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

Emissions from the Waukesha Model VGF18GL Emergency Generator # 4, rated at 440 hp and operating less than 100 hours per year, shall not exceed 0.097 tons NO_x/year, 0.194 tons CO/year and 0.049 tons VOCs/year.

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

The permittee must operate and maintain Emergency Generator # 4 to achieve the emission standards as required in 40 CFR 60 § 60.4233 over the entire life of the engine.

[Additional authority for this permit condition is derived from NSPS Subpart JJJJ, 40 CFR § 60.4234 (as amended on January 18, 2008)]

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

Compliance with 40 CFR 60, Subpart JJJJ constitutes compliance with 40 CFR 63, Subpart ZZZZ, for an engine located at a major source of HAPs.

[40 CFR § 63.6590(c)]

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

The permittee shall install a non-resettable hour meter on the Generator # 4 prior to the initial startup of the Engine. The permittee shall monitor the emergency and non-emergency operating hours for this source on a monthly and annual basis. The hour meter shall be maintained in good order for the life of the engine.

**SECTION D. Source Level Requirements**

[Additional authority for the above condition is derived from 40 CFR § 60.4237]

IV. RECORDKEEPING REQUIREMENTS.

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

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?

Emergency Waukesha Generator #4 shall comply with the following compliance requirements:

- Keep maintenance plan and maintenance records;
- Operate consistent with good air pollution control practices; and
- Initial performance test within one (1) year of startup.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?

40 CFR § 60.4243 requires the following monitoring and recordkeeping for Generator # 4:

(a) N/A

(b) N/A

(c) N/A

(d) The maintenance checks and readiness testing of emergency generator is limited to 100 hours per year. There is no time limit on the use of this generator in emergency situation. This unit may operate up to 50 hours per year on nonemergency situation.

(e) The emergency generator may be operated using propane for a maximum of 100 hours per year as an alternative fuel during an emergency operation, but a record of operations on propane shall be kept.

Note: The monitoring records in above (d) and (e) shall be kept at site or in an electronic format and made available to the Department's representative upon request.

[40 CFR § 60.4243 (d) and (e)]

V. REPORTING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee must meet the notification, reporting and recordkeeping requirements; must keep record of informations in 40 CFR § 60.4245(a) (1) to (4) as follows:

(1) All notifications submitted to comply with the Subpart JJJJ and documentations supporting the notifications.

(2) Maintenance conducted on the engine.

(3) For a certified engine, that it is certified to meet the emission standards and information as required in 40 CFR parts 90 and 1048.

(4) For a non-certified engine, documentation that the engine meets the emissions standards.

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall prepare and comply with a maintenance plan, and must, to the maximum extent practicable, maintain and operate Generator # 4 in a manner consistent with good air pollution control practice for minimizing emissions.

[Compliance with the above permit condition assures compliance with 40 CFR § 60.4243(a)(2)(iii)]

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

Per 25 Pa Code §129.112(c), the owner and operator of a source listed in this subsection that is located at a major NO_x 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.

VII. ADDITIONAL REQUIREMENTS.

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

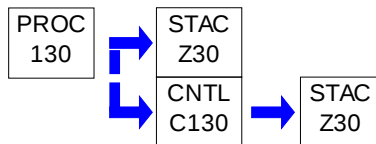
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**SECTION D. Source Level Requirements**

Source ID: 130

Source Name: GAS RELEASE EVENTS

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

VOC emissions from gas release events shall not exceed 32 tons in any consecutive 12-month period.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The actual emissions from the following source types at the facility shall be less than 2.7 tpy of VOC on a 12-month rolling basis.

- The VOC emissions from each case vent shall be less than 2.7 tpy;
- The VOC emissions from each seal vent shall be less than 2.7 tpy;
- Station pigging operations VOC emissions shall be less than 2.7 tpy;
- Station blowdown VOC emissions shall be less than 2.7 tpy;
- Pipeline blowdown VOC emissions at the Holbrook CS shall be less than 2.7 tpy;
- The VOC emissions from each starter shall be less than 2.7 tpy.

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.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The emissions from Gas Release Events during the reporting period shall be included in the annual emissions inventory report.

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

Per 25 Pa Code §129.112(c), the owner and operator of a source listed in this subsection that is located at a major NO_x 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.

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

Source ID's 131 and 132 shall be equipped with Solar Turbines proprietary gas release control technology.

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

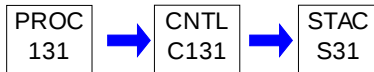
**SECTION D. Source Level Requirements**

Source ID: 131

Source Name: SOLAR TAURUS 070 TURBINE #1 (10,744 HP)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: G01
G02

**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. *****

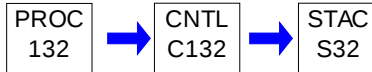
**SECTION D. Source Level Requirements**

Source ID: 132

Source Name: SOLAR TAURUS 070 TURBINE #2 (10,744 HP)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: G01
G02

**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).

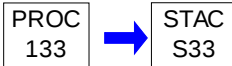
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 133

Source Name: 585 HP WAUKESHA VGF24GL EMERGENCY GENERATOR

Source Capacity/Throughput:

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

Visible emissions from the Waukesha natural gas-fired emergency generator engine shall not exceed the following:

- a. Equal to or greater than 10% for a period or periods aggregating more than three (3) minutes in any one (1) hour; and
- b. Equal to or greater than 30% at any time.

002 [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?**

Emissions from the Waukesha natural gas-fired emergency generator shall be limited to the following NO_x, VOC, and CO emission standards:

NO_x – 2.0 g/bhp-hr

CO – 4.0 g/bhp-hr

VOC – 1.0 g/bhp-hr

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4234]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion engine**

Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.

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

The permittee shall limit the hours of operation of the emergency generator to less than 500 hours in any consecutive 12-month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

The permittee shall maintain records of the hours of operation of the Waukesha natural gas-fired emergency generator (Source ID 133) on a monthly and 12-month rolling sum basis.

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?**

The Owner/Operator of a stationary SI ICE shall comply with the applicable 40 CFR Part 60 Subpart JJJJ notification, reporting, and recordkeeping requirements:

a) Owners and operators of all stationary SI ICE must keep records of the information in paragraphs (a)(1) through (4) of this section.

(1) All notifications submitted to comply with this subpart and all documentation supporting any notification.

(2) Maintenance conducted on the engine.

(3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.

(4) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.

b) For all stationary SI emergency ICE greater than or equal to 500 HP manufactured on or after July 1, 2010, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For all stationary SI emergency ICE greater than or equal to 130 HP and less than 500 HP manufactured on or after July 1, 2011 that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For all stationary SI emergency ICE greater than 25 HP and less than 130 HP manufactured on or after July 1, 2008, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

c) Owners and operators of stationary SI ICE greater than or equal to 500 HP that have not been certified by an engine manufacturer to meet the emission standards in §60.4231 must submit an initial notification as required in §60.7(a)(1). The notification must include the information in paragraphs (c)(1) through (5) of this section.

(1) Name and address of the owner or operator;

(2) The address of the affected source;

(3) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;

(4) Emission control equipment; and

(5) Fuel used.

d) Owners and operators of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in §60.4244 within 60 days after the test has been completed.

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.**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

**SECTION D. Source Level Requirements**

The Owner/Operator of a stationary SI ICE subject to the emission standards specified in §60.4233(e) shall comply with the applicable 40 CFR Part 60 Subpart JJJJ compliance demonstration requirements:

a) N/A

b) If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in §60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) and (2) of this section.

(1) Purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to one of the methods specified in paragraph (a) of this section.

(2) Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in §60.4233(d) or (e) and according to the requirements specified in §60.4244, as applicable, and according to paragraphs (b)(2)(i) and (ii) of this section.

i. N/A

ii. If you are an owner or operator of a stationary SI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

c) N/A

d) If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (d)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (d)(1) through (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (d)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary ICE in emergency situations.

(2) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (d)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (d)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (d)(2).

i. Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (d)(2) of this section. Except as provided in paragraph (d)(3)(i) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

i. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

e) Owners and operators of stationary SI natural gas fired engines may operate their engines using propane for a maximum

**SECTION D. Source Level Requirements**

of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of §60.4233.

f) N/A

g) N/A

h) N/A

i) N/A

VII. ADDITIONAL REQUIREMENTS.**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****Am I subject to this subpart?**

The Waukesha natural gas-fired emergency generator engine, authorized to operate under this operating permit, is subject to the requirements under 40 CFR Part 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4237]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are the monitoring requirements if I am an owner or operator of an emergency stationary SI internal combustion engine?**

The Owner/Operator of an emergency stationary SI ICE shall comply with the applicable 40 CFR Part 60 Subpart JJJJ monitoring requirements:

a) Starting on July 1, 2010, if the emergency stationary SI internal combustion engine that is greater than or equal to 500 HP that was built on or after July 1, 2010, does not meet the standards applicable to non-emergency engines, the owner or operator must install a non-resettable hour meter.

b) N/A

c) N/A

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

The Waukesha natural gas-fired emergency generator engine, authorized to operate under this operating permit, is subject to 40 CFR Part 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE).

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6590]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What parts of my plant does this subpart cover?**

The Waukesha natural gas-fired emergency generator engine, authorized to operate under this operating permit, is a new stationary RICE to be located at an area source. The emergency generator engine must meet the requirements of 40 CFR Part 63 Subpart ZZZZ by meeting the requirements of 40 CFR Part 60 Subpart JJJJ. No further requirements apply for the emergency generator engine under 40 CFR Part 63 Subpart ZZZZ.

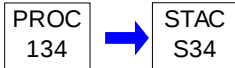
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 134

Source Name: 2 MISC. GAS HEATERS (0.769 MMBTU/HR EACH)

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).

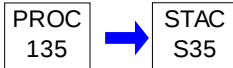
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 135

Source Name: 2,940 GALLON PIPELINE LIQUIDS TANK

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).

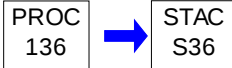
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 136

Source Name: 3 SEPERATOR VESSELS

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 E. Source Group Restrictions.**

Group Name: G01

Group Description: Two Solar Taurus 070 Turbines

Sources included in this group

ID	Name
131	SOLAR TAURUS 070 TURBINE #1 (10,744 HP)
132	SOLAR TAURUS 070 TURBINE #2 (10,744 HP)

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

At all times, including during startup, shutdown, and low temperature events; emissions from each Solar Taurus 070 turbine (Source ID 131 and Source ID 132) shall not exceed the following on a 12-month rolling sum basis:

NO_x – 12.65 tons
CO – 8.41 tons
VOC – 2.97 tons
Formaldehyde – 0.51 tons
Total PM – 2.51 tons

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

Visible emissions from each Solar Taurus 070 turbine (Source ID 131 and Source ID 132) stack shall not exceed 10% at any time.

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

Emission rates from each Solar Taurus 070 turbine shall be limited as follows:

NO_x Normal Operating Condition = 9.0 ppmv @15%O₂
NO_x Normal Operating Condition = 2.98 lb/hr
NO_x Normal Operating Condition = 12.21 TPY
NO_x Start Up, Shutdown = 0.44 TPY

Compliance Method:
U.S. EPA Reference Method 7E.*

CO Normal Operating Condition = 1.8 ppmv @15%O₂
CO Normal Operating Condition = 0.25 lb/hr
CO Normal Operating Condition = 1.03 TPY
CO Start Up, Shutdown = 7.38 TPY

Compliance Method:
U.S. EPA Reference Method 10.*

VOC Normal Operating Condition = 5.0 ppmv @15%O₂
VOC Normal Operating Condition = 0.32 lb/hr
VOC Normal Operating Condition = 1.30 TPY
VOC Start Up, Shutdown = 1.67 TPY

Compliance Method:
U.S. EPA Reference Method ALT-106.*

Formaldehyde Normal Operating Condition = 0.01 lb/hr
Formaldehyde Normal Operating Condition = 0.04 TPY

**SECTION E. Source Group Restrictions.**

Formaldehyde Start Up, Shutdown = 0.47 TPY

Compliance Method:

U.S. EPA Reference Method 320. *

Total PM Normal Operating Condition = 0.03 lb/MMBtu, HHV

Total PM Normal Operating Condition = 0.61 lb/hr

Compliance Method:

U.S. EPA Reference Methods 201/201A or equivalent and Method 202.*

For purposes of this condition, the "normal" operating scenario excludes startup, shutdown, and low temperature operating scenarios.

*Alternative compliance methods may be approved in writing by the Department.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate the sources using only pipeline quality natural gas fuel.

Operation Hours Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The turbines may be operated without oxidation catalyst for up to 100 hours immediately following initial startup (once in the life of each turbine) or a major overhaul in order to prevent catalyst fouling due to oil burnoff. The emissions from turbine operation without oxidation catalyst must be included in the annual emissions inventory report.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the hours of operation of each Solar Taurus 070 turbine during startup and shutdown events to the following hours in any consecutive 12-month period.

Startup: 23 hours

Shutdown: 22 hours

II. TESTING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Owner/Operator shall perform NO_x, CO, VOC, and Formaldehyde emission testing upon each Solar Taurus 070 turbine (Source ID 131 and Source ID 132) according to the requirements of 25 Pa. Code Chapter 139. Initial performance testing is required within 180 days of startup of each turbine. Subsequent annual NO_x performance tests shall be conducted no more than 14 calendar months following the previous performance test. If the NO_x emission result from the performance test is less than or equal to 75 percent of the NSPS Subpart KKKK emission limit for the turbine, the permittee may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 months following the previous performance test). If the results of any subsequent performance test exceeds 75 percent of the emission limit, the permittee will be required to resume annual performance testing. Subsequent CO, VOC, and Formaldehyde emission tests shall be performed on the same schedule as NO_x. Each performance test shall be conducted using EPA Method stack testing.

**SECTION E. Source Group Restrictions.****# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The Owner/Operator shall perform Total Particulate Matter (filterable + condensable) emission testing upon the Solar Taurus 070 turbine (Source ID 131 and Source ID 132) according to the requirements of 25 Pa. Code Chapter 139. Initial performance testing is required within 180 days of startup of the turbine. The performance test shall be conducted using EPA Method stack testing.

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

(a) Unless otherwise approved in writing by DEP, the permittee shall conduct the following periodic monitoring every 2,500 hours of operation:

(1) Conduct three test runs of at least 20 minutes duration within 25% of 100% of peak load or at the highest achievable load.

(2) Determine NO_x and CO emissions and O₂ concentrations in the exhaust with an electro-chemical cell portable gas analyzer used and maintained in accordance with the manufacturer's specifications and following the procedures specified in ASTM D6522.

(3) If the measured NO_x or CO emissions concentrations are within the margin of instrument error or in exceedance of the emissions limit, the permittee must perform a stack test within 180 days of the periodic monitoring.

(b) The 2,500 hours of operation count resets after any performance test performed in accordance with above.

(c) The Department may alter the frequency of periodic monitoring based on the test results. The frequency of periodic monitoring may be altered upon request of the permittee with written Departmental approval.

(d) If the permittee decides to deviate from the monitoring procedures in (a) above, they must submit a request to use an alternate procedure, in writing, at least 60 days prior to performing the periodic monitoring. In the alternate procedure request, the permittee must demonstrate the alternate procedure's equivalence to the standard procedure to the satisfaction of the Division of Source Testing and Monitoring.

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

Each turbine shall be equipped with a non-resettable hour meter.

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

The permittee shall install, operate and maintain instrumentation to continuously monitor the catalyst bed inlet gas temperature for each oxidation catalyst.

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

For each turbine, the owner or operator shall maintain the following comprehensive and accurate records:

- 1) The make, model, serial number and manufacturer's engine certificate or vendor guarantees of each turbine.
- 2) Hours of commissioning of the Taurus 070 turbines including hours of operation without the oxidation catalysts during commissioning.
- 3) Date, start time, and duration of periods of Non-SoLoNO_x operation for the Taurus 070 turbines.
- 4) The number of hours of operation on a monthly and 12-month rolling sum basis that each turbine operated.
- 5) The amount of fuel used (expressed in MMscf) on a monthly and 12-month rolling sum basis by each turbine.
- 6) Emission calculations for each turbine.
- 7) Emission test reports, all operating data collected during tests, and a copy of the calculations performed to determine compliance with emission limitations for the Taurus 070 turbines.

**SECTION E. Source Group Restrictions.**

- 8) Operating data demonstrating that the Taurus 070 turbines were operating at maximum routine operating conditions and within plus or minus 25 percent of 100 percent peak load (or the highest achievable load) during performance testing.
- 9) Copies of the manufacturer's maintenance instructions and recommended maintenance schedule for each turbine and catalyst.
- 10) Records of any maintenance conducted on each turbine and catalyst.
- 11) Records of catalyst inlet temperature readings performed once daily on each turbine operated.
- 12) The results of each periodic monitoring.
- 13) Records of facility-wide inspections including the date, time, name, and title of the observer, along with any corrective action taken as a result.

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

The permittee will maintain adequate records to demonstrate that the duration of turbine operation without oxidation catalyst immediately following initial startup or a major overhaul does not exceed 100 hours per event.

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

The Owner/operator shall provide EPA with the notifications required by 40 CFR § 60.7. Required notifications may include but are not necessarily limited to: date of commencement of construction (within 30 days after starting construction), actual start-up date (within 15 days after equipment start-up), and physical or operational changes which may increase the emission rate of any air pollutant to which a standard applies (60 days or as soon as practicable before equipment start-up).

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

The Owner/Operator shall limit the engine's time spent at idle during startup or shutdown to a period appropriate for the operation of the engine and air pollution control equipment consistent with good air pollution control practices, not to exceed 30 minutes.

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

The permittee shall at all times operate and maintain the combustion turbines and oxidation catalysts, 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.

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

For purposes of this Operating Permit, operating modes of the Solar Taurus 070 turbine are defined as follows:

Startup – Commences with the fuel ignition in the combustion chamber and ends when the unit startup sequence is complete and stable Dry Low NO_x (DLN) mode has been reached. The start-up period for the turbine shall not exceed 30 minutes per event.

Shutdown – Commences when the turbine stop sequence is initiated and ends when the fuel injection into the combustion chamber is terminated. The shutdown period for the turbine shall not exceed 30 minutes per event.

Low Temperature – Anytime fuel is being combusted at an ambient temperature outside manufacturer DLN performance envelope (below 0 degrees F). Emissions from low temperature periods are counted toward the source wide ton per year limit. Emissions from low temperature periods are not subject to the normal operating condition short term (lb/hr) limit.

Normal – Anytime fuel is being combusted and the turbine is operating in DLN mode.

**SECTION E. Source Group Restrictions.**

Transient – Periods when operating conditions dynamically change and the turbine combustion system operates in diffusion flame mode (i.e., non-DLN mode) not to exceed 8 consecutive hours duration. Does not include startup, shutdown, low load, or low temperature events.

Low Load – Operation when load or load surrogate is outside manufacturer DLN performance envelope.

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

**SECTION E. Source Group Restrictions.**

Group Name: G02

Group Description: NSPS SUBPART KKKK

Sources included in this group

ID	Name
131	SOLAR TAURUS 070 TURBINE #1 (10,744 HP)
132	SOLAR TAURUS 070 TURBINE #2 (10,744 HP)

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4320]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What emission limits must I meet for nitrogen oxides (NOX)?**

The Owner/Operator shall comply with the applicable 40 CFR Part 60 Subpart KKKK NOx emission limits:

a) You must meet the emission limits for NOX specified in Table 1 to this subpart.

Table 1 excerpt:

Combustion turbine type	Combustion turbine heat input at peak load (HHV)	NOx emission standard
New turbine firing natural gas output (1.2 lb/MMWh)	> 50 MMBtu/h and = 850 MMBtu/h	25 ppm at 15 percent O2 or 150 ng/J of useful

b) N/A

[Compliance with the BAT NOx limit of 9 ppmvd @ 15% O2 four Source IDs 131 and 132 will show compliance with this requirement.]

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4330]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What emission limits must I meet for sulfur dioxide (SO2)?**

The Owner/Operator shall comply with the applicable 40 CFR Part 60 Subpart KKKK SO2 limits:

a) If your turbine is located in a continental area, you must comply with either paragraph (a)(1), (a)(2), or (a)(3) of this section. If your turbine is located in Alaska, you do not have to comply with the requirements in paragraph (a) of this section until January 1, 2008.

1) N/A

2) You must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO2/J (0.060 lb SO2/MMBtu) heat input. If your turbine simultaneously fires multiple fuels, each fuel must meet this requirement; or

3) N/A

b) N/A

II. TESTING REQUIREMENTS.**# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4340]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I demonstrate continuous compliance for NOX if I do not use water or steam injection?**

The Owner/Operator shall comply with the applicable 40 CFR Part 60 Subpart KKKK NOx continuous compliance

**SECTION E. Source Group Restrictions.**

demonstration requirements:

(a) If you are not using water or steam injection to control NOX emissions, you must perform annual performance tests in accordance with §60.4400 to demonstrate continuous compliance. 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, you 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, you must resume annual performance tests.

(b) n/a

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4400]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How do I conduct the initial and subsequent performance tests, regarding NOX ?

(a) You must conduct an initial performance test, as required in §60.8. Subsequent NOX performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test).

(1) There are two general methodologies that you may use to conduct the performance tests. For each test run:

(i) Measure the NOX concentration (in parts per million (ppm)), using EPA Method 7E or EPA Method 20 in appendix A of this part. For units complying with the output based standard, concurrently measure the stack gas flow rate, using EPA Methods 1 and 2 in appendix A of this part, and measure and record the electrical and thermal output from the unit. Then, use the following equation to calculate the NOX emission rate:

"Equation 5"

$$E = 1.194 \times 10^{-7} \times (\text{NOX})_c \times Q_{\text{std}} / P \quad (\text{Eq. 5})$$

Where:

E = NOX emission rate, in lb/MWh

1.194×10^{-7} = conversion constant, in lb/dscf-ppm

(NOX)_c = average NOX concentration for the run, in ppm

Q_{std} = stack gas volumetric flow rate, in dscf/hr

P = gross electrical and mechanical energy output of the combustion turbine, in MW (for simple-cycle operation), for combined-cycle operation, the sum of all electrical and mechanical output from the combustion and steam turbines, or, for combined heat and power operation, the sum of all electrical and mechanical output from the combustion and steam turbines plus all useful recovered thermal output not used for additional electric or mechanical generation, in MW, calculated according to §60.4350(f)(2); or

(ii) Measure the NOX and diluent gas concentrations, using either EPA Methods 7E and 3A, or EPA Method 20 in appendix A of this part. Concurrently measure the heat input to the unit, using a fuel flowmeter (or flowmeters), and measure the electrical and thermal output of the unit. Use EPA Method 19 in appendix A of this part to calculate the NOX emission rate in lb/MMBtu. Then, use Equations 1 and, if necessary, 2 and 3 in §60.4350(f) to calculate the NOX emission rate in lb/MWh.

(2) Sampling traverse points for NOX and (if applicable) diluent gas are to be selected following EPA Method 20 or EPA Method 1 (non-particulate procedures), and sampled for equal time intervals. The sampling must be performed with a traversing single-hole probe, or, if feasible, with a stationary multi-hole probe that samples each of the points sequentially. Alternatively, a multi-hole probe designed and documented to sample equal volumes from each hole may be used to sample simultaneously at the required points.

(3) Notwithstanding paragraph (a)(2) of this section, you may test at fewer points than are specified in EPA Method 1 or EPA Method 20 in appendix A of this part if the following conditions are met:

(i) You may perform a stratification test for NOX and diluent pursuant to

(A) [Reserved], or

**SECTION E. Source Group Restrictions.**

(B) The procedures specified in section 6.5.6.1(a) through (e) of appendix A of part 75 of this chapter.

(ii) Once the stratification sampling is completed, you may use the following alternative sample point selection criteria for the performance test:

(A) If each of the individual traverse point NOX concentrations is within ± 10 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ± 5 ppm or ± 0.5 percent CO₂ (or O₂) from the mean for all traverse points, then you may use three points (located either 16.7, 50.0 and 83.3 percent of the way across the stack or duct, or, for circular stacks or ducts greater than 2.4 meters (7.8 feet) in diameter, at 0.4, 1.2, and 2.0 meters from the wall). The three points must be located along the measurement line that exhibited the highest average NOX concentration during the stratification test; or

(B) For turbines with a NOX standard greater than 15 ppm @ 15% O₂, you may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid if each of the individual traverse point NOX concentrations is within ± 5 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ± 3 ppm or ± 0.3 percent CO₂ (or O₂) from the mean for all traverse points; or

(C) For turbines with a NOX standard less than or equal to 15 ppm @ 15% O₂, you may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid if each of the individual traverse point NOX concentrations is within ± 2.5 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ± 1 ppm or ± 0.15 percent CO₂ (or O₂) from the mean for all traverse points.

(b) The performance test must be done at any load condition within plus or minus 25 percent of 100 percent of peak load. You may perform testing at the highest achievable load point, if at least 75 percent of peak load cannot be achieved in practice. You must conduct three separate test runs for each performance test. The minimum time per run is 20 minutes.

(1) n/a

(2) n/a

(3) n/a

(4) Compliance with the applicable emission limit in §60.4320 must be demonstrated at each tested load level. Compliance is achieved if the three-run arithmetic average NOX emission rate at each tested level meets the applicable emission limit in §60.4320.

(5) n/a

(6) The ambient temperature must be greater than 0 °F during the performance test.

005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4415]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I conduct the initial and subsequent performance tests for sulfur?**

(a) You must conduct an initial performance test, as required in §60.8. Subsequent SO₂ performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test). There are four methodologies that you may use to conduct the performance tests.

(1) The use of a current, valid purchase contract, tariff sheet, or transportation contract for the fuel specifying the maximum total sulfur content of all fuels combusted in the affected facility. Alternately, the fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter may be used.

(2) Periodically determine the sulfur content of the fuel combusted in the turbine, a representative fuel sample may be collected either by an automatic sampling system or manually. For automatic sampling, follow ASTM D5287 (incorporated

**SECTION E. Source Group Restrictions.**

by reference, see § 60.17) for gaseous fuels or ASTM D4177 (incorporated by reference, see § 60.17) for liquid fuels. For manual sampling of gaseous fuels, follow API Manual of Petroleum Measurement Standards, Chapter 14, Section 1, GPA 2166, or ISO 10715 (all incorporated by reference, see § 60.17). For manual sampling of liquid fuels, follow GPA 2174 or the procedures for manual pipeline sampling in section 14 of ASTM D4057 (both incorporated by reference, see § 60.17). The fuel analyses of this section may be performed either by you, a service contractor retained by you, the fuel vendor, or any other qualified agency. Analyze the samples for the total sulfur content of the fuel using:

(i) n/a

(ii) For gaseous fuels, ASTM D1072, or alternatively D3246, D4084, D4468, D4810, D6228, D6667, or Gas Processors Association Standard 2377 (all of which are incorporated by reference, see §60.17).

(3) Measure the SO₂ concentration (in parts per million (ppm)), using EPA Methods 6, 6C, 8, or 20 in appendix A of this part. In addition, the American Society of Mechanical Engineers (ASME) standard, ASME PTC 19-10-1981-Part 10, "Flue and Exhaust Gas Analyses," manual methods for sulfur dioxide (incorporated by reference, see §60.17) can be used instead of EPA Methods 6 or 20. For units complying with the output based standard, concurrently measure the stack gas flow rate, using EPA Methods 1 and 2 in appendix A of this part, and measure and record the electrical and thermal output from the unit. Then use the following equation to calculate the SO₂ emission rate:

$$E = 1.664 \times 10^{-7} \times (\text{SO}_2)_c \times Q_{\text{std}} / P \quad (\text{Eq. 6})$$

Where:

E = SO₂ emission rate, in lb/MWh

1.664×10^{-7} = conversion constant, in lb/dscf-ppm

(SO₂)_c = average SO₂ concentration for the run, in ppm

Q_{std} = stack gas volumetric flow rate, in dscf/hr

P = gross electrical and mechanical energy output of the combustion turbine, in MW (for simple-cycle operation), for combined-cycle operation, the sum of all electrical and mechanical output from the combustion and steam turbines, or, for combined heat and power operation, the sum of all electrical and mechanical output from the combustion and steam turbines plus all useful recovered thermal output not used for additional electric or mechanical generation, in MW, calculated according to §60.4350(f)(2); or

(4) Measure the SO₂ and diluent gas concentrations, using either EPA Methods 6, 6C, or 8 and 3A, or 20 in appendix A of this part. In addition, you may use the manual methods for sulfur dioxide ASME PTC 19-10-1981-Part 10 (incorporated by reference, see §60.17). Concurrently measure the heat input to the unit, using a fuel flowmeter (or flowmeters), and measure the electrical and thermal output of the unit. Use EPA Method 19 in appendix A of this part to calculate the SO₂ emission rate in lb/MMBtu. Then, use Equations 1 and, if necessary, 2 and 3 in §60.4350(f) to calculate the SO₂ emission rate in lb/MWh.

(b) [Reserved]

III. MONITORING REQUIREMENTS.**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4360]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I determine the total sulfur content of the turbine's combustion fuel?**

The Owner/Operator shall comply with the applicable 40 CFR Part 60 Subpart KKKK fuel sulfur content determination requirements:

You must monitor the total sulfur content of the fuel being fired in the turbine, except as provided in §60.4365. The sulfur content of the fuel must be determined using total sulfur methods described in §60.4415. Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than half the applicable limit, ASTM D4084, D4810, D5504, or D6228, or Gas Processors Association Standard 2377 (all of which are incorporated by reference, see §60.17), which measure the major sulfur compounds, may be used.

**SECTION E. Source Group Restrictions.****# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4365]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How can I be exempted from monitoring the total sulfur content of the fuel?**

The Owner/Operator shall comply with the applicable 40 CFR Part 60 Subpart KKKK fuel sulfur monitoring exemption requirements:

You may elect not to monitor the total sulfur content of the fuel combusted in the turbine, if the fuel is demonstrated not to exceed potential sulfur emissions of 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for units located in continental areas and 180 ng SO₂/J (0.42 lb SO₂/MMBtu) heat input for units located in noncontinental areas or a continental area that the Administrator determines does not have access to natural gas and that the removal of sulfur compounds would cause more environmental harm than benefit. You must use one of the following sources of information to make the required demonstration:

(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 oil use in continental areas is 0.05 weight percent (500 ppmw) or less and 0.4 weight percent (4,000 ppmw) or less for noncontinental areas, the total sulfur content for natural gas use in continental areas is 20 grains of sulfur or less per 100 standard cubic feet and 140 grains of sulfur or less per 100 standard cubic feet for noncontinental areas, has potential sulfur emissions of less than less than 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for continental areas and has potential sulfur emissions of less than less than 180 ng SO₂/J (0.42 lb SO₂/MMBtu) heat input for noncontinental areas; or

(b) Representative fuel sampling data which show that the sulfur content of the fuel does not exceed 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for continental areas or 180 ng SO₂/J (0.42 lb SO₂/MMBtu) heat input for noncontinental areas. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter is required.

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.**# 008 [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.

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4395]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****When must I submit my reports?**

All reports required under §60.7(c) must be postmarked by the 30th day following the end of each 6-month period.

VI. WORK PRACTICE REQUIREMENTS.**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4333]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What are my general requirements for complying with this subpart?**

The Owner/Operator shall comply with the applicable 40 CFR Part 60 Subpart KKKK general requirements:

**SECTION E. Source Group Restrictions.**

- a) You must operate and maintain your stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.
- b) N/A

VII. ADDITIONAL REQUIREMENTS.**# 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4305]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****Does this subpart apply to my stationary combustion turbine?**

The Solar Taurus 070 turbines (Source IDs 131 & 132), authorized to operate under this Operating Permit, are subject to the requirements under 40 CFR Part 60, Subpart KKKK – Standards of Performance for Stationary Combustion Turbines.

012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4420]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What definitions apply to this subpart?**

All terms used in 40 CFR Part 60 Subpart KKKK shall have the meaning given in 40 CFR §60.4420 or else in the Clean Air Act and 40 CFR Part 60 Subpart A.

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

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

The following old sources ID's are removed from service and inactivated in the system:

- Source 103; Cooper-Bessemer GMV-10
- Source 104; Cooper-Bessemer GMV-10
- Source 105; Cooper-Bessemer GMV-10
- Source 107; Cooper-Bessemer GMV-10
- Source 113; Ingersoll-Rand KVS-1-412
- Source 031 thru 048; and
- Source 050

Under the provision of PA-30-00077B and PA-30-00077C, four Cooper Bessemer GMV-10-S engine (Source 103, 104, 105, 107) and one Ingersoll Rand KVS-1-412 (Source 113) have been physically disabled such that they are removed from service. These engines may not be reactivated without Departmental approval.

In accordance with 25 PA Code 127.207(7), the owner or operator of sources 103, 104, 105, 107, and 113 shall on an annual basis, submit to the Department a "Certificate of continued Shutdown" for these sources. This shall be submitted along with the emission reports submitted by March 1 of each year.

The requirement of this condition may be waived upon submittal of sufficient proof that an ERC generating source has been dismantled or removed.

On October 25, 2019, this permit was amended to change the name of the Responsible Official from Thomas V. Wooden, Jr. to Kerry Puckett, Vice President of Operations.

On June 29, 2020, this permit was amended to change the name of the Responsible Official from Kerry Puckett, Vice President of Operations to Brad Shamla, Vice President of U.S. operations.

On October 14, 2025, PA-30-00077E was incorporated into this operating permit, and authorized the construction of the following equipment:

- Two (2), 10,744 HP, Solar Taurus 070, natural gas-fired turbine equipped with SoLoNOx technology; controlled by an oxidation catalyst;
- One (1) natural gas fired 585 hp Waukesha VGF24GL emergency generator;
- Two (2) gas fired fuel gas heaters, 0.769 MMBtu/hr each;
- One (1) pipeline liquids tank, 2,940-gallon capacity;
- Three (3) separator vessels (two (2) 425-gallon and one (1) 443-gallon);
- Miscellaneous component leak, compressor blowdown, and facility blowdown fugitives; and
- Solar Turbines Recompression System

PA-30-00077E also required the following sources to be permanently shutdown by January 1, 2024:

- Four (4) Cooper-Bessemer GMV-10 natural gas-fired engines (Source IDs 101, 102, 106, and 108);
- Four (4) Cooper-Bessemer GMVA-10 natural gas-fired engines (Source IDs 109, 110, 111, and 112);
- Four (4) Ingersoll-Rand KVS-1-412 natural gas-fired engines (Source IDs 114, 115, 116, and 117);
- One natural gas-fired emergency generators (Source ID 121);
- Four (4) storage tanks (one (1) 9,100 gallon lube oil tank, one (1) 8,200 gallon lube oil tank, and two (2) 1,020 gallon coolant tanks); and
- One (1) coolant truck loading site.



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