



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: February 19, 2014

Effective Date: February 19, 2014

Expiration Date: August 19, 2015

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 construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval 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 plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 26-00413B

Federal Tax Id - Plant Code: 72-0378240-3

Owner Information

Name: TEXAS EASTERN TRANS LP  
Mailing Address: PO BOX 1642  
HOUSTON, TX 77251

Plant Information

Plant: TEXAS EASTERN TRANS LP/UNIONTOWN STA  
Location: 26 Fayette County 26927 North Union Township  
SIC Code: 4922 Trans. & Utilities - Natural Gas Transmission

Responsible Official

Name: THOMAS V WOODEN  
Title: VP OPERATIONS, NE  
Phone: (713) 627 - 5400

Plan Approval Contact Person

Name: REAGAN R MAYCES  
Title: EHS MGR - US OPER  
Phone: (713) 627 - 4790

[Signature] \_\_\_\_\_  
MARK A. WAYNER, SOUTHWEST REGION AIR PROGRAM MANAGER



### Plan Approval Description

This Plan Approval is to allow the following by Texas Eastern Transmission, L.P. at the Uniontown Compressor Station located in North Union Township, Fayette County:

- Upgrade the two (2) Solar Mars 100-14002S1 natural gas-fired turbines from 12,600 bhp to 13,330 bhp each.
- Equip each turbine with EmeraChem (or equivalent) oxidation catalysts.



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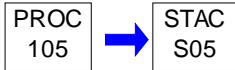
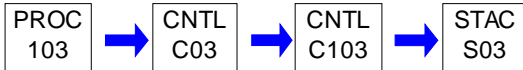
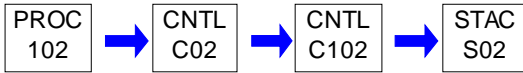


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Source ID	Source Name	Capacity/Throughput	Fuel/Material
102	TURBINE T1		
103	TURBINE T2		
105	AREA FUGITIVES & STORAGE TANK 2		
107	GAS RELEASE EVENTS		
C02	DRY LOW-NOX COMBUSTORS TURBINE 1		
C03	DRY LOW-NOX COMBUSTORS TURBINE 2		
C102	TURBINE T1 OXIDATION CATALYST		
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**SECTION B. General Plan Approval Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

Words and terms that are not otherwise defined in this plan approval 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 § 127.12b (a) (b)]****Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

**#003 [25 Pa. Code § 127.12b]****Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 15 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

**#004 [25 Pa. Code § 127.12(a) (10)]****Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

**#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]****Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B. General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

**#006 [25 Pa. Code § 127.12b]****Plan Approval terms and conditions.**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

**#007 [25 Pa. Code § 127.32]****Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

**#008 [25 Pa. Code § 127.12(4) & 35 P.S. § 4008 & § 114 of the CAA]****Inspection and Entry**

(a) 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.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

**SECTION B. General Plan Approval Requirements**

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

**#009 [25 Pa. Code 127.13a]****Plan Approval Changes for Cause**

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

(a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.

(b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(c) The permittee fails to submit a report required by this plan approval.

(d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

**#010 [25 Pa. Code §§ 121.9 & 127.216]****Circumvention**

(a) The permittee, 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 plan approval, 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.

**#011 [25 Pa. Code § 127.12c]****Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager

PA Department of Environmental Protection

(At the address given on the plan approval transmittal letter or otherwise notified)

**#012 [25 Pa. Code § 127.12(9) & 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 facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:

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



**SECTION B. General Plan Approval 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 the Environmental Protection Agency 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 plan approval 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.

**#013 [25 Pa. Code § 127.25]****Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.



## SECTION C. Site Level Plan Approval 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) Open burning operations.

(7) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.

(8) Coke oven batteries, provided the fugitive air contaminants emitted from any coke oven battery comply with the standards for visible fugitive emissions in § § 123.44 and 129.15 (relating to limitations of visible fugitive air contaminants from operation of any coke oven battery; and coke pushing operations).

(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) An application form for requesting a determination under either subsection (a)(9) or 129.15(c) is available from the Department. In reviewing these applications, the Department may require the applicant to supply information including, but not limited to, a description of proposed control measures, characteristics of emissions, quantity of emissions, and ambient air quality data and analysis showing the impact of the source on ambient air quality. The applicant shall be required to demonstrate that the requirements of subsections (a)(9) and (c) and 123.2 (relating to fugitive particulate matter) or of the requirements of 129.15(c) have been satisfied. Upon such demonstration, the Department will issue a determination, in writing, either as an operating permit condition, for those sources subject to permit requirements under the act, or as an order containing appropriate conditions and limitations.

(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.

**SECTION C. Site Level Plan Approval Requirements**

(d) The requirements contained in subsection (a) and 123.2 do not apply to fugitive emissions arising from the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.

**# 002 [25 Pa. Code §123.2]****Fugitive particulate matter**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 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.

**# 003 [25 Pa. Code §123.31]****Limitations**

The permittee may not allow the emission into the outdoor atmosphere of any malodorous air contaminants from any source, in such a manner that the malodors are detectable outside the permittee's property.

**# 004 [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) N/A

**# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall not allow 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:

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

**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The emissions from the Uniontown Compressor Station shall not exceed 49.0 tons of Volatile Organic Compounds in any consecutive 12-month period.

**# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The VOC emission rate shall not exceed 37.28 tpy from the turbines, standing and working losses, truck loading losses, and gas release events (sources 30205, 30206, 302-V1 through 302-V7, 302-TL-PL, and 302-GR as identified in plan approval application PA-26-00413B) in any consecutive 12-month period.

**II. TESTING REQUIREMENTS.****# 008 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Performance testing shall be conducted as follows:

**SECTION C. Site Level Plan Approval Requirements**

- a. The permittee shall submit three copies of a pre-test protocol to the Department for review at least 45 days prior to the performance of any EPA reference method stack test. The Owner/Operator shall submit three copies of a one-time protocol to the Department for review for the use of a portable analyzer and may repeat portable analyzer testing without additional protocol approvals provided that the same method and equipment are used. 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 at least 15 days prior to any performance test so that an observer may be present at the time of the test. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.
- c. 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:
- i. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
  - ii. Permit number(s) and condition(s) which are the basis for the evaluation.
  - iii. Summary of results with respect to each applicable permit condition.
  - iv. Statement of compliance or non-compliance with each applicable permit condition.
- e. Pursuant to 25 Pa. Code § 139.3 all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- f. All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.
- g. Pursuant to 25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3) all submittals, besides notifications, shall be accomplished through PSIMS\*Online available through <https://www.depgreenport.state.pa.us/ecomm/Login.jsp> when it becomes available. If internet submittal can not be accomplished, three copies of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468 with deadlines verified through document postmarks.
- h. The permittee shall ensure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

**# 009 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- (a) Within 180 days after issuance of PA-26-00413B, and annually thereafter, the permittee shall develop and perform a leak detection and repair (LDAR) program that includes the use of an optical gas imaging camera such as a forward looking infrared (FLIR) camera or a gas leak detector capable of reading methane concentrations in air of 0% to 5% with an accuracy of +/- 0.2%. The permittee may request, in writing, the use of other leak detection monitoring devices, approved, in writing, by the Department.
- (b) The LDAR program must be conducted on valves, flanges, connectors, storage vessels/storage tanks, and compressor seals in natural gas or hydrocarbon liquids service. A release from any equipment or component designed by the manufacturer to protect the equipment, controller(s), safety of personnel, to prevent ground water contamination, to prevent gas migration, or an emergency situation is not considered a leak. Leaks shall be repaired no later than 15 calendar days after leaks are detected unless facility shutdowns or ordering of replacement parts are necessary for repair of the leaks.
- (c) The permittee must submit a written request to the Southwest Regional Office for an extension of LDAR deadlines. This

**SECTION C. Site Level Plan Approval Requirements**

includes extensions required due to facility shutdowns and/or the ordering of replacement parts. The written request shall also include the reason(s) for the extension request and the schedule for completion of the repairs. The Department may grant an extension of the LDAR deadlines based upon the written request.

(d) The optical gas imaging camera or other Department-approved gas leak detection equipment shall be operated in accordance with manufacturer-recommended procedures.

(e) A leak is considered repaired if one of the following can be demonstrated:

(1) No detectable emissions consistent with EPA Method 21 specified in 40 CFR Part 60, Appendix A;

(2) A concentration of 2.5% methane or less using a gas leak detector and a VOC concentration of 500 ppm or less;

(3) No visible leak image when using an optical gas imaging camera;

(4) No bubbling at leak interface using a soap solution bubble test specified in EPA Method 21; or a procedure based on the formation of bubbles in a soap solution that is sprayed on a potential leak source may be used for those sources that do not have continuously moving parts and that do not have a surface temperature greater than the boiling point or less than the freezing point of the soap solution; or

(5) Any other method approved, in writing, by the Department.

(f) The permittee of a facility shall, at a minimum, on a monthly basis perform audible, visual, and olfactory (AVO) inspections.

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.****# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The Owner/Operator shall maintain records of the hours of operation and throughput of pipeline liquids and natural gas where appropriate for each of the sources collectively limited to 37.28 tons of VOCs. These records shall be used for compliance demonstration purposes.

**# 011 [25 Pa. Code §127.12b]****Plan approval 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.

**# 012 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

(b) Leaks, repair methods and repair delays shall be recorded and maintained for a period of five years.

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

**V. REPORTING REQUIREMENTS.****# 013 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The annual emission report shall include all emissions information for all previously reported sources and new sources which were first operated during the preceding calendar year. Emissions data including, but not limited to the following, shall be reported: carbon monoxide, 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, volatile organic compounds (VOC), total hazardous air pollutants (HAP), speciated individual HAP emissions (including formaldehyde), and greenhouse gases, expressed as CO2e. The statement shall also contain a certification by a company officer or the plant manager that the information contained in the statement is accurate.

**SECTION C. Site Level Plan Approval Requirements****# 014 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Malfunction reporting shall be conducted as follows:

- a. The owner or operator shall report each malfunction that occurs at this facility that poses an imminent and substantial danger to the public health and safety or the environment or which it should reasonably believe may result in citizen complaints to the Department. For purpose of this condition a malfunction is defined as any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment or source to operate in a normal or usual manner that may result in an increase in the emission of air contaminants. Examples of malfunctions that may result in citizen complaints include but are not limited to: large dust plumes, heavy smoke, a spill or release that results in a malodor that is detectable outside the property of the person on whose land the source is being operated.
- b. When the malfunction poses an imminent and substantial danger to the public health and safety or the environment, the notification shall be submitted to the Department no later than one hour after the incident. All other malfunctions that must be reported under subsection (a) shall be reported to the Department no later than the next business day.
- c. The report shall describe the:
  - i. Name and location of the facility;
  - ii. Nature and cause of the malfunction or breakdown;
  - iii. Time when the malfunction or breakdown was first observed;
  - iv. Expected duration of excess emissions; and
  - v. Estimated rate of emissions.
- d. The owner or operator shall notify the Department immediately when corrective measures have been accomplished.
- e. Subsequent to the malfunction, the owner/operator shall submit a full written report to the Department including the items identified in (c) and corrective measures taken on the malfunction within 15 days, if requested.
- f. The owner/operator shall submit reports on the operation and maintenance of the source to the Regional Air Program Manager at such intervals and in such form and detail as may be required by the Department. Information required in the reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and maintenance schedules.
- g. Malfunctions shall be reported to the Department at the following address:

PADEP  
Office of Air Quality  
400 Waterfront Drive  
Pittsburgh, PA 15222-4745  
412-442-4000

**# 015 [25 Pa. Code §135.3]****Reporting**

Annual emission reporting shall be conducted as follows:

- a. The permittee shall submit by March 1 of each year, a source report for the preceding calendar year. The report shall include information for all previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported.
- b. A person who received initial notification by the Department that a source report is necessary shall submit an initial source report within 60 days after receiving the notification or by March 1 of the year following the year for which the report is required, whichever is later.
- c. A source owner or operator may request an extension of time from the Department for the filing of a source report, and the Department may grant the extension for reasonable cause.



## SECTION C. Site Level Plan Approval Requirements

### VI. WORK PRACTICE REQUIREMENTS.

#### # 016 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

The permittee shall construct, operate, and maintain all air contamination sources and air cleaning devices authorized under this Plan Approval in accordance with the manufacturers' specifications and recommended maintenance schedules.

### VII. ADDITIONAL REQUIREMENTS.

#### # 017 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

The conditions of this authorization shall not supersede existing requirements, unless specifically stated. The conditions, limitations, and restrictions of existing authorizations shall remain in effect until the sources are operating under this authorization and appropriate notification requirements have been fulfilled.

#### # 018 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

This Plan Approval is to allow the following by Texas Eastern Transmission, L.P. at the Uniontown Compressor Station located in North Union Township, Fayette County:

- Uprate the two (2) Solar Mars 100-14002S1 natural gas-fired turbines from 12,600 bhp to 13,330 bhp each.
- Equip each turbine with EmeraChem (or equivalent) oxidation catalysts.

#### # 019 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

Each air contamination source and air cleaning device authorized for operation under TV-26-00413 at this Facility remains subject to all conditions and requirements of TV-26-00413 unless superseded by a more stringent requirement of this Plan Approval.

#### # 020 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

Upon determination by the permittee that the source(s) covered by this Plan Approval are in compliance with all conditions of the Plan Approval, the Permittee shall contact the Department's reviewing engineer and schedule the Initial Operating Permit Inspection.

#### # 021 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

Upon completion of the Initial Operating Permit Inspection and determination by the Department that the source(s) covered by this Plan Approval are in compliance with all conditions of the Plan Approval, the permittee shall submit either a Title V Operating Permit (TVOP) administrative amendment application or a revision to a pending TVOP application for this Facility.

#### # 022 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

The permittee shall submit requests to extend the temporary operation period at least 15 days prior to the expiration date of any authorized period of temporary operation until the sources, modifications to existing sources, and air cleaning devices covered by this authorization are incorporated into the TVOP for this facility.

#### # 023 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

If, at any time, the Department has cause to believe that air contaminant emissions from the sources listed in this Plan Approval may be in excess of the limitations specified in, or established pursuant to this plan approval or the permittee's 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.

### VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).



**SECTION C. Site Level Plan Approval Requirements**

**IX. COMPLIANCE SCHEDULE.**

No compliance milestones exist.

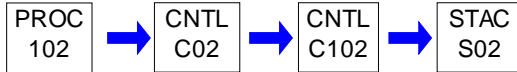


**SECTION D. Source Level Plan Approval Requirements**

Source ID: 102

Source Name: TURBINE T1

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Visible emissions from the Solar Mars turbines shall not exceed 10% opacity at any time.

**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Emissions rates for each of the existing Solar Mars turbines shall be limited as follows:

Air Contaminant	Operating Condition	Emission Rate
NOx	Normal	25 ppmvd @ 15% O2
	Normal	12.60 lb/hr
	All	38.36 tpy
CO	Normal	0.77 lb/hr
	All	22.48 tpy
VOC	Normal	0.48 lb/hr
	All	1.82 tpy

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 have duration no greater than 18 minutes in any 60-minute period. Shutdown is defined as ending when contaminants are no longer being emitted to the atmosphere, and shall have duration no greater than 10 minutes. Low temperature is defined as less than 0°F.

**# 003 [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)?**

In accordance with 40 CFR § 60.4320(a), the Solar Mars turbines are subject to the following NOx standards:

- 42 ppm at 15 percent O2 or 160 ng/J of useful output (1.3 lb/MWh).

**Throughput Restriction(s).****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Combined natural gas usage by the two Solar Mars turbines shall not exceed 1,666 MMscf/yr on a 12-month rolling basis.

**II. TESTING REQUIREMENTS.****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall perform EPA Method stack testing for NOx, CO, and VOC within 180 days after startup of each updated Solar Mars turbine in accordance with the requirements of 25 Pa. Code §139. Subsequent NOx, CO and VOC performance

**SECTION D. Source Level Plan Approval Requirements**

testing shall be conducted no less often than once every five years thereafter.

**# 006 [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 ?**

The permittee shall demonstrate compliance with the NOx standards of 40 CFR Part 60.4320(a) via periodic performance testing in accordance with 40 CFR § 60.4400.

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.****# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The Permittee shall maintain the following comprehensive and accurate records:

- a. The number of hours per month that each Solar Mars turbine is operated
- b. The date, start time, and duration of each startup, shutdown, and low temperature period for each Solar Mars turbine as startup, shutdown, and low temperature periods are defined in the emission limitation condition.
- c. The amount of fuel used by each Solar Mars turbine on a monthly and 12-month rolling basis. Combined turbine fuel usage must be maintained for 10 years from the date of issuance of this plan approval.
- d. Copies of the manufacturer's recommended maintenance schedule for each Solar Mars turbine.
- e. Any maintenance conducted on the Solar Mars turbines and oxidation catalysts.
- f. The fuel quality characteristics in a current, valid tariff sheet that the total sulfur content for natural gas use in the turbines is 20 grains of sulfur or less per 100 standard cubic feet
- g. Results of facility-wide inspections for visible, fugitive, and malodorous emissions including the date, time, name, and title of the observer, along with any corrective action taken as a result.

**V. REPORTING REQUIREMENTS.****# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]****Subpart A - General Provisions****Address.**

The Facility is subject New Source Performance Standards from 40 CFR Part 60 Subparts KKKK. In accordance with 40 CFR §60.4, copies of all requests, reports, applications, submittals and other communications regarding the engines 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
US EPA, Region III	Pittsburgh, PA 15222-4745
1650 Arch Street	
Philadelphia, PA 19101-2029	

**# 009 [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?**

The Owner/Operator shall submit the following turbine reports in accordance with 40 CFR §60.4375:

- a. N/A.

**SECTION D. Source Level Plan Approval Requirements**

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.

**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.7]****Subpart A - General Provisions****Notification and record keeping.**

The permittee 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), physical or operational changes (60 days or as soon as practicable before equipment start-up), and opacity observations (within 30 days).

**VI. WORK PRACTICE REQUIREMENTS.****# 011 [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 permittee shall operate and maintain stationary combustion turbines, air pollution equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

**VII. ADDITIONAL REQUIREMENTS.****# 012 [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?**

Each Solar Mars 100 turbine is subject to the requirements under 40 CFR Part 60, Subpart KKKK – Standards of Performance for Stationary Combustion Turbines. Each Solar Mars 100 turbine is considered a modified turbine.

**# 013 [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?**

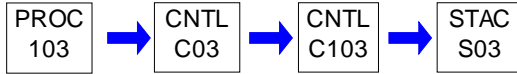
All terms used in 40 CFR Part 60 Subpart KKKK shall have the meaning given in 40 CFR §60.4420 or else in the Clean Air Act and 40 CFR Part 60 Subpart A.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 103

Source Name: TURBINE T2

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Visible emissions from the Solar Mars turbines shall not exceed 10% opacity at any time.

**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Emissions rates for each of the existing Solar Mars turbines shall be limited as follows:

Air Contaminant	Operating Condition	Emission Rate
NOx	Normal	25 ppmvd @ 15% O2
	Normal	12.60 lb/hr
	All	38.36 tpy
CO	Normal	0.77 lb/hr
	All	22.48 tpy
VOC	Normal	0.48 lb/hr
	All	1.82 tpy

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 have duration no greater than 18 minutes in any 60-minute period. Shutdown is defined as ending when contaminants are no longer being emitted to the atmosphere, and shall have duration no greater than 10 minutes. Low temperature is defined as less than 0°F.

**# 003 [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)?**

In accordance with 40 CFR § 60.4320(a), the Solar Mars turbines are subject to the following NOx standards:

- 42 ppm at 15 percent O2 or 160 ng/J of useful output (1.3 lb/MWh).

**Throughput Restriction(s).****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Combined natural gas usage by the two Solar Mars turbines shall not exceed 1,666 MMscf/yr on a 12-month rolling basis.

**II. TESTING REQUIREMENTS.****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall perform EPA Method stack testing for NOx, CO, and VOC within 180 days after startup of each updated Solar Mars turbine in accordance with the requirements of 25 Pa. Code §139. Subsequent NOx, CO and VOC performance

**SECTION D. Source Level Plan Approval Requirements**

testing shall be conducted no less often than once every five years thereafter.

**# 006 [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 ?**

The permittee shall demonstrate compliance with the NOx standards of 40 CFR Part 60.4320(a) via periodic performance testing in accordance with 40 CFR § 60.4400.

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.****# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The Permittee shall maintain the following comprehensive and accurate records:

- a. The number of hours per month that each Solar Mars turbine is operated
- b. The date, start time, and duration of each startup, shutdown, and low temperature period for each Solar Mars turbine as startup, shutdown, and low temperature periods are defined in the emission limitation condition.
- c. The amount of fuel used by each Solar Mars turbine on a monthly and 12-month rolling basis. Combined turbine fuel usage must be maintained for 10 years from the date of issuance of this plan approval.
- d. Copies of the manufacturer's recommended maintenance schedule for each Solar Mars turbine.
- e. Any maintenance conducted on the Solar Mars turbines and oxidation catalysts.
- f. The fuel quality characteristics in a current, valid tariff sheet that the total sulfur content for natural gas use in the turbines is 20 grains of sulfur or less per 100 standard cubic feet
- g. Results of facility-wide inspections for visible, fugitive, and malodorous emissions including the date, time, name, and title of the observer, along with any corrective action taken as a result.

**V. REPORTING REQUIREMENTS.****# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]****Subpart A - General Provisions****Address.**

The Facility is subject New Source Performance Standards from 40 CFR Part 60 Subparts KKKK. In accordance with 40 CFR §60.4, copies of all requests, reports, applications, submittals and other communications regarding the engines 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
US EPA, Region III	Pittsburgh, PA 15222-4745
1650 Arch Street	
Philadelphia, PA 19101-2029	

**# 009 [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?**

The Owner/Operator shall submit the following turbine reports in accordance with 40 CFR §60.4375:

- a. N/A.

**SECTION D. Source Level Plan Approval Requirements**

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.

**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.7]****Subpart A - General Provisions****Notification and record keeping.**

The permittee 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), physical or operational changes (60 days or as soon as practicable before equipment start-up), and opacity observations (within 30 days).

**VI. WORK PRACTICE REQUIREMENTS.****# 011 [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 permittee shall operate and maintain stationary combustion turbines, air pollution equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

**VII. ADDITIONAL REQUIREMENTS.****# 012 [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?**

Each Solar Mars 100 turbine is subject to the requirements under 40 CFR Part 60, Subpart KKKK – Standards of Performance for Stationary Combustion Turbines. Each Solar Mars 100 turbine is considered a modified turbine.

**# 013 [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?**

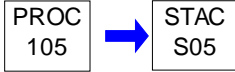
All terms used in 40 CFR Part 60 Subpart KKKK shall have the meaning given in 40 CFR §60.4420 or else in the Clean Air Act and 40 CFR Part 60 Subpart A.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 105

Source Name: AREA FUGITIVES &amp; STORAGE TANK 2

Source Capacity/Throughput:

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 107

Source Name: GAS RELEASE EVENTS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).





**SECTION E. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.



**SECTION F. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



**SECTION G. Miscellaneous.**



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

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