



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: June 18, 2024

Effective Date: April 7, 2025

Revision Date: April 7, 2025

Expiration Date: June 18, 2029

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: 58-00001

Federal Tax Id - Plant Code: 74-1056569-5

Owner Information

Name: TENNESSEE GAS PIPELINE CO LLC

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

Plant Information

Plant: TENNESSEE GAS PIPELINE CO LLC/COMP STA 321

Location: 58 Susquehanna County 58909 Clifford Township

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

Responsible Official

Name: RONALD F MILLER

Title: DIRECTOR OPERATIONS

Phone: (724) 662 - 6422

Email: ron_miller@kindermorgan.com

Permit Contact Person

Name: AUSTIN HARRIS

Title: AIR PERMITTING AND COMPLI

Phone: (713) 420 - 7024

Email: Austin_Harris@kindermorgan.com

[Signature] _____

MARK J. WEJKSZNER, NORTHEAST REGION AIR PROGRAM MANAGER



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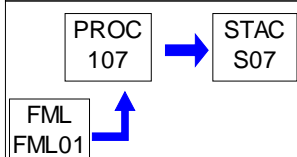
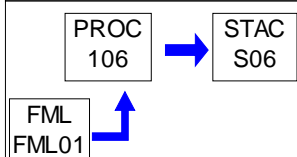
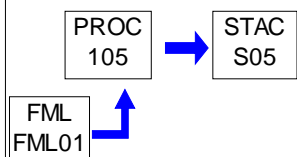
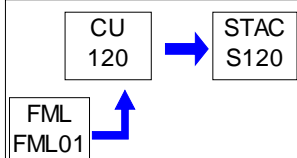
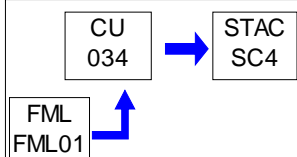
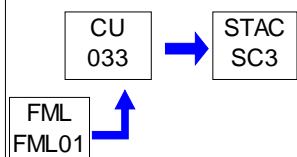
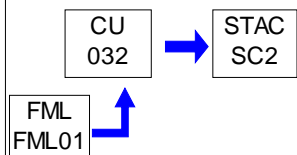
Section H. Miscellaneous

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
032	HEATING FURNACE 1 (1F)	1.000 MMBTU/HR	
033	HEATING FURNACE 2 (2F)	0.100 MMBTU/HR	
034	HEATING FURNACE 3 (3F)	1.000 MMBTU/HR	
120	HOT WATER BOILER	4.600 MMBTU/HR	
105	THREE (3) CONTROL BLDG A SPACE HEATERS	0.163 MMCF/HR	Natural Gas
106	SPACE HEATER 4 (4SH)	0.135 MMCF/HR	Natural Gas
107	FOUR (4) PIPELINE WAREHOUSE SPACE HEATERS	0.648 MMCF/HR	Natural Gas
108	SPACE HEATER 9 (9SH)	0.049 MMCF/HR	Natural Gas
109	HOT WATER HEATER 1 (1HWH)	0.032 MMCF/HR	Natural Gas
110	HOT WATER HEATER 2 (2HWH)	0.032 MMCF/HR	Natural Gas
111	HOT WATER HEATER 3 (3HWH)	0.032 MMCF/HR	Natural Gas
113	3830 BHP SOLAR CENTAUR 40S-4702 GAS TURB NO B-05 SN CC85681	49.200 MMBTU/HR	
114	3830 BHP SOLAR CENTAUR 40S-4702 GAS TURB NO B-06 SN CC85580	49.200 MMBTU/HR	
115	3830 BHP SOLAR CENTAUR 40S-4702 GAS TURB NO B-07 SN CC85579	49.200 MMBTU/HR	
117	SOLAR TAURUS 70 TURB ENG NO C-01 SN TC13292	79.200 MMCF/HR	Natural Gas
118	SOLAR TURBINE-TAURUS 70- 11,434 HP	91.500 MMBTU/HR	
119	IC ENGINE/GENERATOR SET-1,114 BHP		
121	STORAGE TANK-3,800 GAL		
122	PIPELINE FLANGES, CONNECTORS AND VALVES		
123	NATURAL GAS VENTING		
C118	OXIDATION CATALYST		
FML01	NATURAL GAS PIPELINE		
S05	STACKS - THREE (3) HEATERS		
S06	STACK - SPACE HEATER 4		
S07	STACKS - FOUR (4) WAREHOUSE SPACE HEATERS		
S08	STACK - SPACE HEATER 9		
S09	STACK - HOT WATER HEATER 1		
S10	STACK - HOT WATER HEATER 2		
S11	STACK - HOT WATER HEATER 3		
S113	STACK - TURBINE		
S114	STACK - TURBINE		
S115	STACK - TURBINE		
S117	STACK - TURBINE		
S118	STACK-TURBINE		
S119	STACK-IC ENGINE/GENERATOR		
S120	STACK-HOT WATER BOILER		
SC2	FURNACE 1 EXHAUST (S-1F)		
SC3	FURNACE 2 EXHAUST (S-2F)		
SC4	FURNACE 3 EXHAUST (S-3F)		

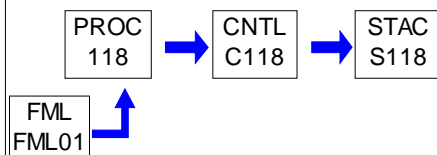
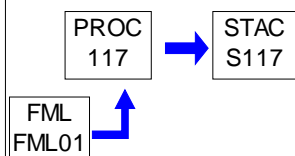
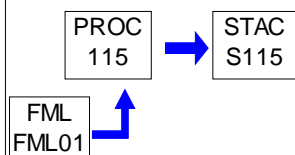
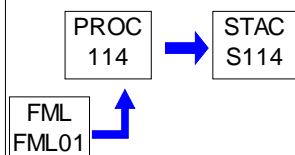
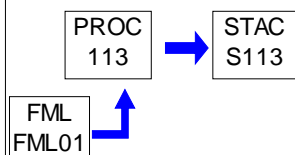
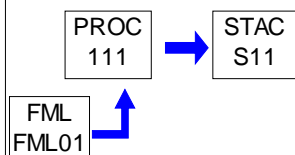
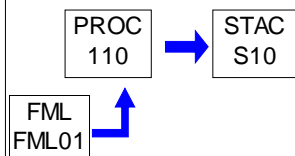
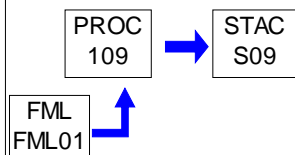
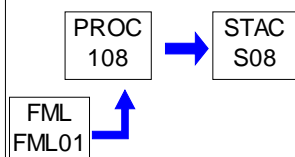
**SECTION A. Site Inventory List**

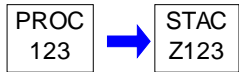
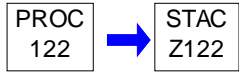
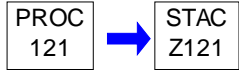
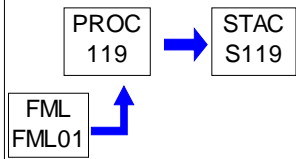
Source ID	Source Name	Capacity/Throughput	Fuel/Material
Z121	FUGITIVE EMISSIONS		
Z122	FUGITIVE EMISSIONS		
Z123	FUGITIVE EMISSIONS		

PERMIT MAPS



PERMIT MAPS



**PERMIT MAPS**

**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 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

**SECTION B. General Title V Requirements**

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.

#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.

**SECTION B. General Title V Requirements****#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.

#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].

**SECTION B. General Title V Requirements****#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.

#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.

**SECTION B. General Title V Requirements**

(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 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.

**SECTION B. General Title V Requirements**

(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.

(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

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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 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

**SECTION B. General Title V Requirements**

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.

#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.

**SECTION B. General Title V Requirements****#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:
 - (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.

**SECTION B. General Title V Requirements**

(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.

(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) Open burning operations.
- (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.

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

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

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

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

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

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

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

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

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

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

**SECTION C. Site Level Requirements****# 006 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

Pursuant to the Maximum Achievable Control Technology (MACT) Standards for Hazardous Air Pollutants (HAP) provisions of 25 Pa. Code Section 127.35, HAP emissions from the facility shall be less than 10 tons for any single HAP and 25 tons aggregate for any combination of HAPs during any consecutive 12-month rolling period.

Fuel Restriction(s).**# 007 [25 Pa. Code §127.444]****Compliance requirements.**

All sources described in this permit shall combust only natural gas fuel.

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

(a) Pursuant to 25 Pa. Code § 139.3, at least 60 calendar days prior to commencing any stack testing, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual. The test protocol must also notify the PA DEP of the planned date for performing the on-site testing portion of the method.

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

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

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

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

1. The plan explains the procedures used to document proper operation of the process and air cleaning device.
2. The plan Includes the compliance indicators to be monitored.
3. The plan shows there is a significant relationship between the emissions and the selected compliance indicators.
4. The plan selects ranges (or designated conditions) based on supporting data for compliance indicator purposes.
5. The plan explains the elements it incorporates to make certain that the data collected for compliance indicator purposes is representative of actual process conditions, such as but not limited to detector location specifications, description of quality assurance and control practices, etc.

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6. The plan describes the frequency of measurements for the parametric monitoring and the data collection procedures which will be used to document compliance indicators (e.g., you are using a computerized data acquisition over a number of discrete data points with the average (or maximum value) being used for purposes of determining whether an exceedance has occurred).

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

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

(g) Pursuant to 25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3) all submittals, besides notifications, shall be accomplished through PSIMS*Online available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp> when it becomes available. If internet submittal can not be accomplished, two (2) copies of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, North East Regional Office, Air Quality Program Manager, 2 Public Square, Wilkes-Barre, PA 18701 with deadlines verified through document postmarks.

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

009 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

All sampling, testing and analyses performed in compliance with the requirements of any section of this permit shall be done in accordance with SECTION B - General Title V Requirement #023.

010 [25 Pa. Code §139.1]**Sampling facilities.**

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

011 [25 Pa. Code §139.11]**General requirements.**

(a) The following provisions are applicable to source tests for determining emissions from stationary sources:

(1) Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

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

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

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

(iii) The location of the sampling ports.

(iv) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO₂, O₂ and N₂), static and barometric pressures.

(v) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.

(vi) Laboratory procedures and results.

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(vii) Calculated results.

III. MONITORING REQUIREMENTS.**# 012 [25 Pa. Code §123.43]****Measuring techniques**

(a) Visible emissions may be measured using either of the following:

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

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

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

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

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

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

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

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

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

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

(d) Leak means:

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

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

(f) The permittee shall monitor each pump, valve, relief valve, flange, connector, storage vessel/storage tank, open ended

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line and compressor seal, if applicable, in natural gas or hydrocarbon liquids service at least annually.

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

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

- (i) No detectable emissions consistent with EPA Method 21 specified in 40 CFR Part 60, Appendix A;
 - (ii) A concentration of 2.5% methane or less using a gas leak detector and a VOC concentration of 500 ppm or less;
 - (iii) No visible leak image when using an optical gas imaging camera; if an optical gas imaging camera was originally used to detect the leak;
 - (iv) No bubbling at leak interface using a soap solution bubble test specified in EPA Method 21; or a procedure based on the formation of bubbles in a soap solution that is sprayed on a potential leak source may be used for those sources that do not have continuously moving parts and that do not have a surface temperature greater than the boiling point or less than the freezing point of the soap solution; or
 - (v) Any other method approved, in writing, by the Department.
- (i) If a leak is not repaired within fifteen (15) days after it is detected, the leaking equipment or component must be listed on a Delay of Repair (DOR) List. The owner or operator must submit a written request to the appropriate regional office for an extension of the 15 day repair deadline. This includes extensions required due to facility shutdowns and/or the ordering of replacement parts. The written request shall also include the reason(s) for the extension request and the schedule for completion of the repairs. The Department may grant an extension of the LDAR deadline based upon the written request.
- (j) The optical gas imaging camera or other Department-approved gas leak detection equipment shall be operated in accordance with manufacturer-recommended procedures.
- (k) The permittee shall, at a minimum, on a monthly basis perform audible, visual, and olfactory (AVO) inspections to detect leaks from the equipment listed above.

015 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.****VISIBLE, FUGITIVE AND MALODOR EMISSIONS**

(a) The permittee shall conduct weekly inspections of the facility perimeter, during daylight hours when the plant is in operation, to detect visible, fugitive, and malodor emissions as follows:

- (1) Visible emissions in excess of the limits stated in SECTION C - Condition #004.
 - (i) Visible emissions may be measured according to the methods specified in SECTION C - Condition #012, or alternatively, plant personnel who observe any visible emissions (i.e. emissions in excess of 0% opacity) will report the incident of visible emissions to the Department within four (4) hours of each incident and make arrangements for a certified observer to verify the opacity of the emissions.
- (2) The presence of fugitive emissions visible beyond the boundaries of the facility, as stated in SECTION C - Condition #002.
- (3) The presence of malodor emissions beyond the boundaries of the facility, as stated in SECTION C - Condition #003.

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

(a) The permittee shall maintain a file containing all records and other data that are required to be collected pursuant to the various provisions of 25 Pa. Code 129.95 such that records provide sufficient data and calculations to clearly demonstrate

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that the requirements of 25 Pa. Code Sections § 129.91-129.94 are met.

(b) The file required by paragraph (a) shall include, but not be limited to, air pollution control system performance evaluations and records of calibration checks, adjustments and maintenance performed on the sources at the Compressor Station 321 Plant.

017 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

All records, reports and analyses results generated in compliance with the requirements of any section of this permit shall be maintained in accordance with SECTION B - General Title V Requirement #025 and shall be made available to the Department upon written or verbal request at a reasonable time.

018 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

(a) The permittee shall keep a logbook of weekly facility inspections performed. The logbook shall include the name of the company representative performing the inspection, the date and time of inspections, any instances of exceedances of visible emissions limitations, visible fugitive emissions limitations and malodorous air emissions limitations, and the name of the manager informed if a potential exceedance is observed. The permittee shall also record any and all corrective action(s) taken to abate each recorded deviation to prevent future occurrences.

(b) These records shall be kept for a five (5) year period and shall be made available to the Department upon request.

019 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

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

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

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

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

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

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

(a) The permittee shall report malfunctions to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Malfunctions that are not resulting in, or potentially resulting in, air contaminant emissions in excess of an applicable air contaminant emission limitation and/or are not resulting in, or potentially resulting in, noncompliance with

**SECTION C. Site Level Requirements**

any condition contained herein do not have to be reported. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

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

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

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

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

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

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

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

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

023 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

(a) The company, within twenty-four (24) hours of discovery of an occurrence, shall notify the Department, at (570) 826-2511, of any malfunction, recordkeeping and reporting errors, or other possible non-compliance issues, which result in, or may possibly be resulting in, the emission of air contaminants in excess of the limitations specified in, or established pursuant to, any applicable rule or regulations contained in Article III of the Rules and Regulations of the Department of Environmental Protection.

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

(c) Any changes in the location of the aforementioned sources, or any changes in the process or control equipment would be consider a modification and would require the submittal of an amended application for plan approval in accordance with the provisions of 25 PA Code 127.11 and 127.12.

(d) Any notification as a result of any condition herein should be directed to:

Air Quality Program Manager
Department of Environmental Protection
2 Public Square
Wilkes-Barre, PA 18701-1915

**SECTION C. Site Level Requirements****# 024 [25 Pa. Code §127.513]****Compliance certification.**

The reporting period for the certificate of compliance required by SECTION B - Condition #024 shall be for the previous calendar year, and it shall be submitted within 60 days after the specified period but no later than March 1st.

025 [25 Pa. Code §135.21]**Emission statements**

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

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

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

(b) The owner or operator of each stationary source emitting oxides of nitrogen or VOC's shall provide the Department with a statement, in a form as the Department may prescribe, for classes or categories of sources, showing the actual emissions of oxides of nitrogen and 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.

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

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

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

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

026 [25 Pa. Code §135.3]**Reporting**

(a) A person who owns or operates a source to which 25 Pa. Code Chapter 135 applies, and who has previously been advised by the Department to submit an annual Air Information Management Systems (AIMS) report, shall submit by March 1 of each year an annual AIMS 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 receives initial notification by the Department that an annual AIMS report is necessary shall submit an initial annual AIMS 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.

VI. WORK PRACTICE REQUIREMENTS.**# 027 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

**SECTION C. Site Level Requirements**

(a) A person responsible for any source specified in SECTION C - Condition #001 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.

028 [25 Pa. Code §129.14]**Open burning operations**

(a) No person may permit the open burning of material in an area outside of air basins in a manner that:

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

(b) Exceptions: The requirements of subsection (a) do not apply where the open burning operations result from:

- (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (4) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.
- (5) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of such structure.
- (6) A fire set solely for recreational or ceremonial purposes.
- (7) A fire set solely for cooking food.

VII. ADDITIONAL REQUIREMENTS.**# 029 [25 Pa. Code §121.7]****Prohibition of air pollution.**

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

030 [25 Pa. Code §127.1]**Purpose.**

The permittee shall not permit air pollution as that term is defined in the Pennsylvania Air Pollution Control Act (35P.S.Sections 4001 through 4015).

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

Nothing in this Operating Permit relieves the facility owner or operator from its obligations to comply with all applicable federal, state and local laws and regulations.

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).



SECTION C. Site Level Requirements

IX. COMPLIANCE SCHEDULE

No compliance milestones exist.

***** Permit Shield In Effect *****

**SECTION D. Source Level Requirements**

Source ID: 032

Source Name: HEATING FURNACE 1 (1F)

Source Capacity/Throughput: 1.000 MMBTU/HR

**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. *****

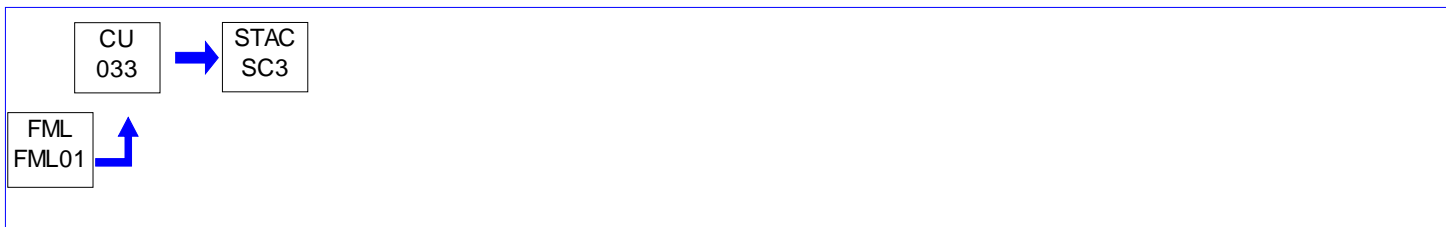
**SECTION D. Source Level Requirements**

Source ID: 033

Source Name: HEATING FURNACE 2 (2F)

Source Capacity/Throughput: 0.100 MMBTU/HR

Conditions for this source occur in the following groups: GROUP 02

**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: 034

Source Name: HEATING FURNACE 3 (3F)

Source Capacity/Throughput: 1.000 MMBTU/HR

Conditions for this source occur in the following groups: GROUP 02

**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: 120

Source Name: HOT WATER BOILER

Source Capacity/Throughput:

4.600 MMBTU/HR

**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: 105

Source Name: THREE (3) CONTROL BLDG A SPACE HEATERS

Source Capacity/Throughput:

0.163 MMCF/HR

Natural Gas

Conditions for this source occur in the following groups: GROUP 03

**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.**# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

This source includes the following combustion processes in Control Building A:

(a) Two (2) Grinell, Model EPPTD-45A space heaters, each with a rated heat capacity of 0.045 MMBtu/hour.

(b) One (1) Grinell, Model EPPTD-60A space heater, with a rated heat capacity of 0.06 MMBtu/Hour.

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

**SECTION D. Source Level Requirements**

Source ID: 106

Source Name: SPACE HEATER 4 (4SH)

Source Capacity/Throughput:

0.135 MMCF/HR

Natural Gas

Conditions for this source occur in the following groups: GROUP 03

**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.**# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

This source includes the following combustion process:

(a) One (1) Janitrol, Model UCS 123-55 space heater with a rated heat capacity of 0.125 MMBtu/hour.

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

**SECTION D. Source Level Requirements**

Source ID: 107

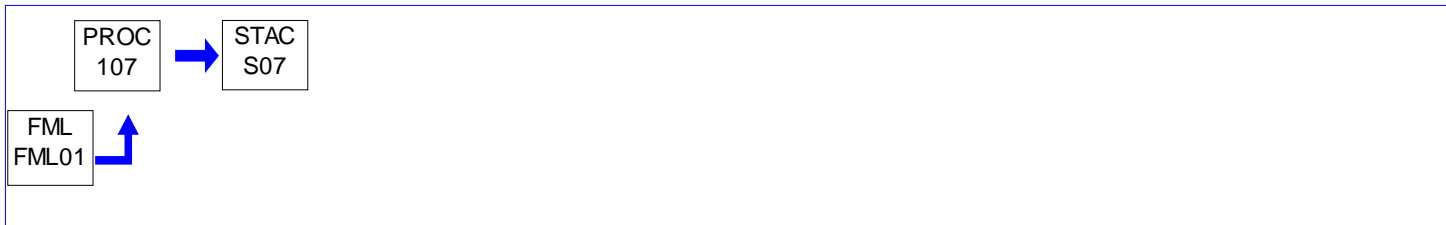
Source Name: FOUR (4) PIPELINE WAREHOUSE SPACE HEATERS

Source Capacity/Throughput:

0.648 MMCF/HR

Natural Gas

Conditions for this source occur in the following groups: GROUP 03

**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.

001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

This source includes the following combustion processes in the Pipeline Warehouse:

(a) Four (4) Grinell, Model EPPTD-150A space heaters, each with a rated heat capacity of 0.150 MMBtu/Hour.

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

**SECTION D. Source Level Requirements**

Source ID: 108

Source Name: SPACE HEATER 9 (9SH)

Source Capacity/Throughput:

0.049 MMCF/HR

Natural Gas

Conditions for this source occur in the following groups: GROUP 03

**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.

001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

This source includes the following combustion process:

(a) One (1) Trane, Model GPNC004 space heater with a rated heat capacity of 0.045 MMBtu/hour.

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

**SECTION D. Source Level Requirements**

Source ID: 109

Source Name: HOT WATER HEATER 1 (1HWH)

Source Capacity/Throughput:

0.032 MMCF/HR

Natural Gas

Conditions for this source occur in the following groups: GROUP 03

**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.

001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

This source includes the following combustion process:

(a) One (1) A.O. Smith, Model FGS 30940 space heater with a rated heat capacity of 0.03 MMBtu/hour.

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

**SECTION D. Source Level Requirements**

Source ID: 110

Source Name: HOT WATER HEATER 2 (2HWH)

Source Capacity/Throughput:

0.032 MMCF/HR

Natural Gas

Conditions for this source occur in the following groups: GROUP 03

**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.

001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

This source includes the following combustion process:

(a) One (1) A.O. Smith, Model FGS 30224 space heater with a rated heat capacity of 0.03 MMBtu/hour.

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

**SECTION D. Source Level Requirements**

Source ID: 111

Source Name: HOT WATER HEATER 3 (3HWH)

Source Capacity/Throughput:

0.032 MMCF/HR

Natural Gas

Conditions for this source occur in the following groups: GROUP 03

**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.

001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

This source includes the following combustion process:

(a) One (1) Bradford White, Model FGS 30224 space heater with a rated heat capacity of 0.03 MMBtu/hour.

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

**SECTION D. Source Level Requirements**

Source ID: 113

Source Name: 3830 BHP SOLAR CENTAUR 40S-4702 GAS TURB NO B-05 SN CC85681

Source Capacity/Throughput: 49.200 MMBTU/HR

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

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (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. *****

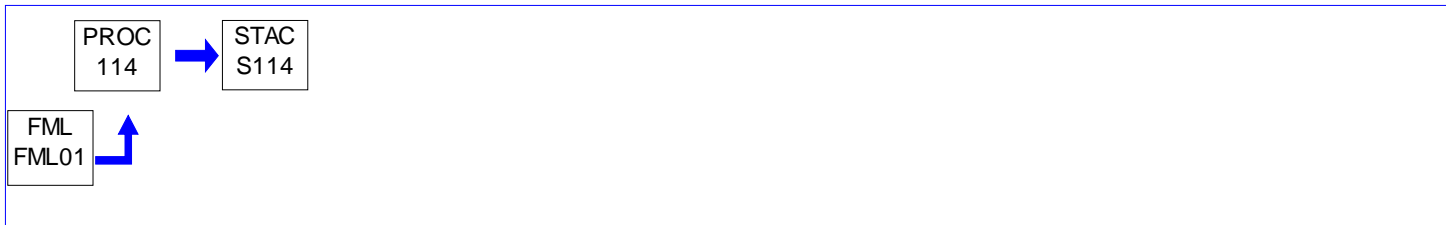
**SECTION D. Source Level Requirements**

Source ID: 114

Source Name: 3830 BHP SOLAR CENTAUR 40S-4702 GAS TURB NO B-06 SN CC85580

Source Capacity/Throughput: 49.200 MMBTU/HR

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

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (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. *****

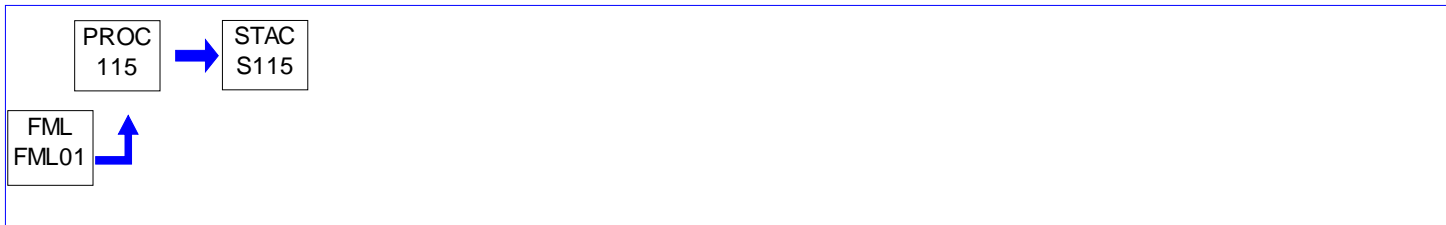
**SECTION D. Source Level Requirements**

Source ID: 115

Source Name: 3830 BHP SOLAR CENTAUR 40S-4702 GAS TURB NO B-07 SN CC85579

Source Capacity/Throughput: 49.200 MMBTU/HR

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

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (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**

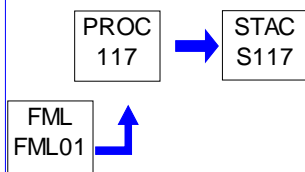
Source ID: 117

Source Name: SOLAR TAURUS 70 TURB ENG NO C-01 SN TC13292

Source Capacity/Throughput:

79.200 MMCF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

Pursuant to Best Available Technology (BAT) requirement of Chapter 127.12 (5) the facility is subject to the following air contaminant emission limitations from the turbine.

(1) GHG emissions (expressed as CO₂e) -9,266.54 lb/hr; 40,590.50 tons/yr.

002 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

(a) Pursuant to Best Available Technology (BAT) requirements of Chapter 127.12 (5) the turbine is subject to the following air contaminant emission limitations from the turbine during normal operation.

NOX - 1-hour average - 9.0 PPMVD @ 15 % O₂, 2.92 lb/hr,

CO - 1-hour average - 25.0 PPMVD @ 15 % O₂, 4.94 lb/hr.

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

003 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Pursuant to Best Available Technology (BAT) requirements of Chapter 127.12 (5) the turbine is subject to the following air contaminant emission limitations from the turbine during normal operation.

VOC- 25.0 PPMV @ 15 % O₂, 2.83 lb/hr

Formaldehyde - 0.00121 lb/mmbtu, 0.12 lb/hr.

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

004 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Whenever the turbine is operating under ambient sub zero temperature conditions, the allowable PPMVD emission limit listed in Condition #002 & #003 does not apply for NOX, CO & VOC emissions. The company shall meet the following emission limitations during operation of the turbine under ambient sub zero temperature conditions.

NOX - 42.0 PPMVD @ 15 % O₂, 13.81 lb/hr- 1-hour

CO - 100.0 PPMVD @ 15 % O₂, 20.01 lb/hr- 1-hour

VOC - 50.0 PPMVD @ 15 % O₂, 5.72 lb/hr- 1-hour

The company shall not operate the turbine for more than 300 hours/year under ambient sub zero temperature conditions on

**SECTION D. Source Level Requirements**

a 12 - month rolling sum.

005 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

NOX - 2.11 lb/event

CO - 42.76 lb/event

VOC - 3.42 lb/event.

Event is defined as 1 startup & 1 shut down. The number of start up and shutdowns are limited to 300 per year on a 12-month rolling sum. Startup or shutdown period shall not be more than 15 minutes.

006 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

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

NOX 14.40

CO 29.72

VOC 13.00

007 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

The permittee shall not emit into the outdoor atmosphere of particulate matter, from this source in a manner that the concentration of particulate matter in the effluent gas exceeds 0.02 grains per dry standard cubic foot.

008 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

009 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

010 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Pursuant to the provisions of 25 Pa. Code Section 123.31, there shall be no malodorous emissions from any operation related to any source covered under this Operating Permit.

**SECTION D. Source Level Requirements****Fuel Restriction(s).****# 011 [25 Pa. Code §127.512]
Operating permit terms and conditions.**

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

**# 012 [25 Pa. Code §127.512]
Operating permit terms and conditions.**

The combustion turbine Source ID #117 shall combust only pipeline quality natural gas as a fuel.

Operation Hours Restriction(s).**# 013 [25 Pa. Code §127.512]
Operating permit terms and conditions.**

Pursuant to Best Available Technology (BAT) requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall limit the amount of turbine start-up and shutdown to no more than 300 events in any 12 consecutive month period.

II. TESTING REQUIREMENTS.**# 014 [25 Pa. Code §127.512]
Operating permit terms and conditions.**

Actions Related to Noncompliance Demonstrated by a Stack Test:

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

(b) If the results of the required stack test exceed any limit defined in this operating permit, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the operating permit, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee receiving the original stack test results, a retest shall be performed. The Department may extend the retesting deadline if the Permittee demonstrates, to the Department's satisfaction, that retesting within 120 days is not practicable. Failure of the second test to demonstrate compliance with the limits in the operating permit, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the operating permit may be grounds for immediate revocation of the operating permit to operate the affected source.

**# 015 [25 Pa. Code §127.512]
Operating permit terms and conditions.**

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

**# 016 [25 Pa. Code §127.512]
Operating permit terms and conditions.**

**SECTION D. Source Level Requirements**

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

III. MONITORING REQUIREMENTS.**# 017 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

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

018 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

019 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Pursuant to Best Available Technology (BAT) requirements of 25 Pa. Code Sections 127.1 and 127.12, the turbine shall be equipped, prior to initial start-up, with instrumentation to continuously monitor manufacturer's recommended, operational parameters which will indicate whether the turbine is operating in a low-NO_x (SoLoNO_x) mode.

020 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

IV. RECORDKEEPING REQUIREMENTS.**# 021 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

(a) The company shall maintain a file containing all records and other data that are required to be collected pursuant to the various provisions of this Operating Permit. The file shall include, but not be limited to: all air pollution control systems performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment which is subject to this Operating Permit. All measurements, records and other data required to be maintained by the company shall be retained for at least five (5) years following the date on which such measurements, records or data are recorded.

(b) The company shall maintain following records:

(1) Data which clearly demonstrates that the heat input of the turbine never exceeds its rated capacity.

(2) The records shall provide sufficient data to clearly demonstrate that the requirement of plan approval conditions are met.

(c) Monthly hours of operation of turbine in Peak Mode and under sub zero temperature conditions including start-up and shutdown period for the turbine.

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

(e) The supporting calculations used to verify the sulfur oxides, particulate matter, GHGs and volatile organic compounds

**SECTION D. Source Level Requirements**

emission limitations.

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

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

022 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

023 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

V. REPORTING REQUIREMENTS.**# 024 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

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

(b) Any changes in the location of the aforementioned source, or any changes in the process or control equipment would be considered a modification and would require the submittal of an amended application.

(c) This source is subject to Subpart KKKK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart.

40 CFR §60.4 requires submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

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

(d) Any notification as a result of any condition herein should be directed to:

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

025 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

(a) The Owner or Operator, within one (1) hour of discovery, shall notify the Department at (570) 826-2511, of any

**SECTION D. Source Level Requirements**

malfunction of the sources or associated air cleaning devices which results in, or may possibly be resulting in, the emission of air contaminants in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection.

(b) A written report shall be submitted to the Department within five (5) working days following the incident describing the malfunctions and corrective actions taken. The Department may take enforcement actions for any violations of the applicable standards.

026 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

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

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

(3) The amount of fuel consumed per month.

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

VI. WORK PRACTICE REQUIREMENTS.**# 027 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

(a) The aforementioned source may only be operated as long as the associated air pollution control devices are operated and maintained in accordance with the specifications set forth in the respective operating permit, and the application(s) submitted for said operating permit (as approved by the Department), and in accordance with any conditions set forth herein.

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

(c) The company shall maintain and operates the air pollution control equipment and source in accordance with good engineering practice.

028 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

VII. ADDITIONAL REQUIREMENTS.

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

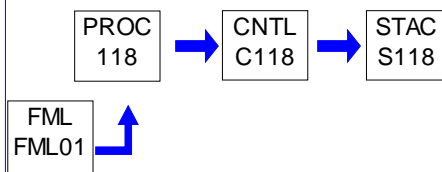
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 118

Source Name: SOLAR TURBINE-TAURUS 70- 11,434 HP

Source Capacity/Throughput: 91.500 MMBTU/HR

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

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

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

(a) 0.25 grains of hydrogen sulfide (H₂S) per 100 cubic feet of gas; and

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

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

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

- a. NO_x- 1-hour average - 9 PPMVD @ 15 % O₂, 2.92 lb/hr
- b. CO - 1-hour average - 2.5 PPMVD @ 15 % O₂, 0.49 lb/hr
- c. VOC- 5 PPMVD @ 15 % O₂, 0.57 lb/hr
- d. Formaldehyde- 0.0028 lb/mmbtu, 0.26 lb/hr
- e. PM_{PM10} - 0.6 lbs/hr
- f. Sulfur Oxide (SO_x) - 0.0139 lb/mmbtu, 1.25 lb/hr
- g. Total HAPs - 0.29 lbs/hr

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

NO_x, CO and VOC emission limits do not apply during the startup and shutdown of the turbine. Each startup and shutdown period is limited to a maximum of 15 minutes each.

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

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

- a. Startup: NO_x @ 1 lb/event, CO @ 37 lb/event, VOC @ 10 lb/event
- b. Shutdown: NO_x @ 1 lb/event, CO @ 13 lb/event, VOC @ 3 lb/event

Event is defined as 1 startup or 1 shut down.

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

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

NO_x- 13.8 lb/hr- 1-hour

CO- 2.0 lb/hr- 1-hour

VOC- 1.14 lb/hr- 1-hour

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

Emissions from turbine since startup, including emissions during operating under sub zero temperature conditions shall not exceeds following;

- a. PM10/PM2.5 - 2.54 tons/year.
- b. Nitrogen Oxides (NO_x) as NO₂ -14.38 tons/year.
- c. Sulfur Dioxide (SO_x) - 5.36 tons/year.
- d. Carbon Monoxide (CO) - 9.83 tons/year.
- e. Volatile Organic Compounds (VOC) - 4.45 tons/year.
- f. Formaldehyde (HCHO) - 1.11 tons/year.
- g. Hazardous Air Pollutants (Combined HAPS) - 1.23 tons/year.

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

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

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

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

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

The company shall not operate turbine without operating SoloNO_x system at any time during normal operation.

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

Definitions:

- (a) A startup is defined as operation in the period beginning when continuous fuel flow to the combustion turbine is initiated and ending when the combustion turbine achieves operating load above 50 %.
- (b) Shutdown is defined as the period beginning with the lowering of unit operating load below 50% with the intent of ceasing operation of the unit and ending with the termination of continuous fuel flow to the combustion turbine.
- (c) Normal operation is defined as all times except startup and shutdown and subzero operation.

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

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

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

Throughput Restriction(s).**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

1. Turbine shall not be operated below 50 % operating load at any time except startup and shutdown.

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

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

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

Actions Related to Noncompliance Demonstrated by a Stack Test:

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

(b) If the results of the required stack test exceed any limit defined in this plan approval, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the plan approval, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee receiving the original stack test results, a retest shall be performed. The Department may extend the retesting deadline if the Permittee demonstrates, to the Department's satisfaction, that retesting within 120 days is not practicable. Failure of the second test to demonstrate compliance with the limits in the plan approval, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the operating permit may be grounds for immediate revocation of the operating permit to operate the affected source.

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

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

**SECTION D. Source Level Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Pursuant to best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the turbine shall be equipped, prior to initial start-up, with instrumentation to continuously monitor manufacturer's recommended, operational parameters which will indicate whether the turbine is operating in a low-NO_x (SoLoNO_x) mode.

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

The turbine combustion temperature, as defined by T5, shall be continuously monitored

**SECTION D. Source Level Requirements****# 023 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the oxidation catalyst shall be equipped with instrumentation to continuously monitor and record the catalyst bed inlet and outlet temperatures as well as the pressure differential across the catalyst bed to verify the temperature and pressure differential parameters are within the acceptable ranges established during performance testing. Visual and audible alarms shall be utilized to indicate improper operation.

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

(a) The operating parameters associated with the turbine and oxidation catalyst shall also be monitored during the initial and subsequent EPA reference method testing program as required herein.

(i) The permittee may supplement the operating parameter data collected during EPA reference method testing with Department-approved engineering analyses, design specifications and/or manufacturers' recommendations.

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

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

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

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

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

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

- (1) The name of the company representative performing the maintenance.
- (2) The date of each maintenance.
- (3) A description of the maintenance, mechanical repairs, and/or adjustments.

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

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

028 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

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

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

**SECTION D. Source Level Requirements**

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

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

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

The permittee shall keep accurate and comprehensive records of current, up-to-date, valid purchase contract, tariff sheet or transportation contract, or representative fuel sampling data for the natural gas fuel used to operate the combustion turbine that indicates the maximum total sulfur content of the natural gas fuel used in the combustion turbine does not exceed the SO₂ restriction specified above in Fuel Restriction(s).

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

(a) The permittee shall keep records of the data averages as part of the parameter monitoring plan from the inlet and outlet catalyst temperature and manufacturer's suggested low-NO_x parameter monitoring systems to verify the averages are within the respective ranges developed as part of the parameter monitoring plan.

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

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

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

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

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

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

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

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

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

(b) 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 5 years and shall be made available to the Department upon request.

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

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

Note: "Malfunction" means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment,

**SECTION D. Source Level Requirements**

process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

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

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

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

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

2. The company shall maintain following records:

(a) Data, such as hp, which clearly demonstrates the turbine never operates above its rated capacity/hp and never operates in low load mode as defined in condition above.

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

(c) Monthly hours of operation of turbine in normal operating mode and under sub zero temperature conditions including start-up and shutdown period, number of startups and shutdowns and the dates each occur, Duration of each startup and shutdown even for the turbine.

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

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

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

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

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

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

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

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

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

**SECTION D. Source Level Requirements**

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

V. REPORTING REQUIREMENTS.**# 040 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

041 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

Air Protection Division
US EPA, Region III
Mail Code 3AP00
1650 Arch Street
Philadelphia, PA 19103

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

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

VI. WORK PRACTICE REQUIREMENTS.**# 042 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

043 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

044 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

- (a) The permittee shall at all times operate and maintain the combustion turbine and its oxidation catalyst, 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.

**SECTION D. Source Level Requirements**

(b) The permittee shall operate the combustion turbine's oxidation catalyst at all times the turbine is in operation once the relevant operating parameters (e.g., catalyst bed inlet gas temperature, air flow) are sufficient for proper control device operation pursuant to the manufacturer's recommendations/specifications.

045 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

All gauges employed by the permittee to monitor the required control device operating parameters shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (+/- 2%) of full scale reading.

046 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(A) Within 30-days of annual stack test or performance stack test, the permittee shall submit the proposed indicator ranges for the following based on recent stack test results:

1. Oxidation Catalyst

(a) Catalyst Temperature

The proposed indicator ranges, as approved by the Department. The permittee shall adhere to the approved indicator ranges so that operation within the range shall provide reasonable assurance of compliance. A departure from the specified indicator range over the specified averaging period shall be defined as an excursion. Within 24-hours of discovery of an indicator being out of range, the permittee shall perform a maintenance inspection on the control device and take corrective action.

(b) The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the devices.

1. The permittee shall, for an approved device(s), install detectors or sensors at a location approved by the Department for obtaining data that are representative of the monitored indicator.

2. The permittee shall develop verification procedures to confirm the operational status of new or modified monitoring equipment prior to commencement of the monitoring process. (The operational status pertains to the first time calibration of new or modified equipment. The permittee may compare the data with any Department approved standardized data. For example, you might compare a pressure gauge at a controlled pressure to that of a pressure standard of a known accuracy, or thermal couple temperature accuracy measured against a known reference temperature traceable to a National Institute for Standards and Technology (NIST)).

3. The permittee shall calibrate and check the accuracy of monitoring equipment taking into account the manufacturer's specifications at approved time intervals.

(B) Oxidation Catalyst

(i) Thermocouple or equivalent - calibrated and checked for accuracy annually.

(C) The permittee shall maintain all monitoring equipment and stock parts necessary for routine repairs onsite.

(D) The permittee shall ensure that at least 90% of the monitoring data has been properly and accurately collected.

047 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Pursuant to 25 Pa. Code §§ 127.1 and 127.12 (relating to best available technology), the permittee shall follow the manufacturers recommendations for procedures of startup and shutdown.

048 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

**SECTION D. Source Level Requirements**

The centrifugal compressor, along with the dry seals, shall be maintained in accordance with the manufacturer's recommended practices.

049 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The centrifugal compressor shall incorporate dry seals to control fugitive leaks from the source.

050 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall operate all air cleaning devices at all times once operating parameters (temperature, flow, etc.) are sufficient for proper operation.

051 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the turbine shall be:

(a) Constructed, operated and maintained in accordance with the manufacturer's specifications or plan approved by the Department.

(b) Operated in a manner consistent with good air pollution control practices for minimizing emissions at all times, including periods of startup, shutdown and malfunction.

052 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

VII. ADDITIONAL REQUIREMENTS.**# 053 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

1. The permittee shall perform the emissions monitoring analysis procedures or test methods required under an applicable requirement including procedures and methods under Sections 114(a)(3) (42 U.S.C.A. §§ 7414 (a)(3)) or 504(b)(42 U.S.C.A. §§ 7661c(b)) of the Clean Air Act.

2. Unless otherwise required by this permit, the permittee shall comply with applicable monitoring, quality assurance, recordkeeping and reporting requirements of the Air Pollution Control Act, 25 Pa. Code, Subpart C, Article III (relating to air resources), including Chapter 139 (relating to sampling and testing). The permittee shall also comply with applicable requirements related to monitoring, quality assurance, reporting and recordkeeping required by the Clean Air Act including §§ 114(a)(3) and 504(b) and regulations adopted thereunder, unless otherwise required by this permit.

054 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The Department reserves the right to use the emissions test results, and the operating parameters recorded during emissions testing of the combustion turbine and its oxidation catalyst to verify emission rates, to establish emission factors, and to develop compliance assurance measures in this plan approval and any subsequent incorporation into operating permit.

055 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subpart KKKK [40 CFR § 60.4300 through § 60.4420].

**SECTION D. Source Level Requirements**

056 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

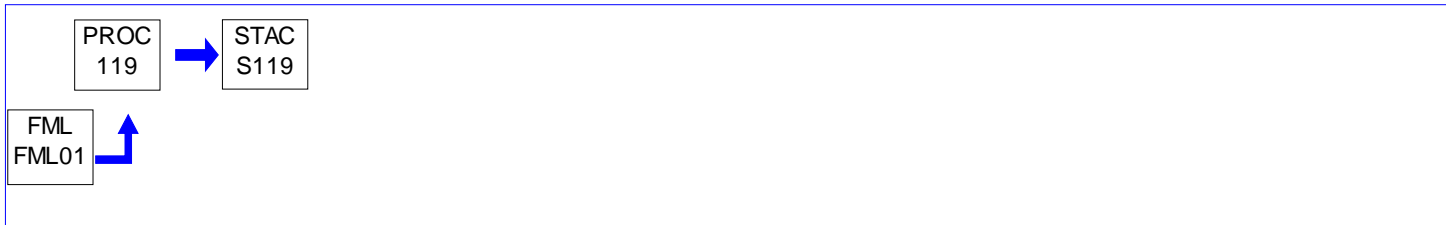
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**SECTION D. Source Level Requirements**

Source ID: 119

Source Name: IC ENGINE/GENERATOR SET-1,114 BHP

Source Capacity/Throughput:

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

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

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

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

(The Permittee may choose to comply with this requirement by using only pipeline quality natural gas. Upon Department request, the Permittee shall obtain a certification of fuel sulfur content from the supplier, provide fuel analysis or fuel samples of fuel used, and/or provide a copy of the FERC tariff sheet in order to show that the fuel meets the requirements of (a) 0.25 grains of hydrogen sulfide (H₂S) per 100 cubic feet of gas; and (b) 5.0 grains of total sulfur per 100 cubic feet of gas)

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

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

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

[Additional authority for this permit condition is also derived from 40 CFR Section 60.4233(e)]

The permittee shall operate the emergency stand-by power generating process in manner that the rate of emissions from the stationary reciprocating internal combustion engine (RICE) associated with Source ID 119 does not exceed the following limitations:

- (i) Nitrogen Oxide - 1.0 grams per brake horsepower-hour
- (ii) Carbon Monoxide - 2.0 grams per brake horsepower-hour
- (ii) Volatile Organic Compound - 0.7 gram per brake horsepower-hour

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

The Emergency Generator shall not operate more than 100 hours, in non-emergency service, during any consecutive 12-month period.

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

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

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

Prior to initial stationary start-up, the permittee shall equip the engine with a non-resettable hour meter that logs the run-time of the engine.

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

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

The permittee shall comply with all applicable Compliance requirements specified in 40 CFR Part 60 Subpart JJJJ 60.4235 through 60.4237.

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

The natural gas fueled engine is subject to 40 CFR, Part 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignited Internal Combustion Engines and the permittee shall comply with all applicable requirements of the subpart.

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

The permittee shall comply with all applicable Compliance requirements specified in 40 CFR Part 60 Subpart JJJJ 60.4243.

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

The engine shall be designed to comply with the Compliance Requirements for Manufacturers specified in 40 CFR Part 60 Subpart JJJJ 60.4238 through 60.4242.

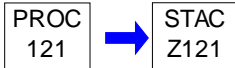
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**SECTION D. Source Level Requirements**

Source ID: 121

Source Name: STORAGE TANK-3,800 GAL

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).

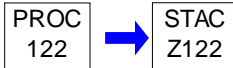
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**SECTION D. Source Level Requirements**

Source ID: 122

Source Name: PIPELINE FLANGES, CONNECTORS AND VALVES

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).

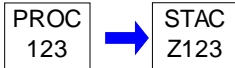
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**SECTION D. Source Level Requirements**

Source ID: 123

Source Name: NATURAL GAS VENTING

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: GROUP 01

Group Description: Compressor Turbines

Sources included in this group

ID	Name
113	3830 BHP SOLAR CENTAUR 40S-4702 GAS TURB NO B-05 SN CC85681
114	3830 BHP SOLAR CENTAUR 40S-4702 GAS TURB NO B-06 SN CC85580
115	3830 BHP SOLAR CENTAUR 40S-4702 GAS TURB NO B-07 SN CC85579

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

The permittee shall not emit into the outdoor atmosphere of particulate matter, from these sources, in such a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

002 [25 Pa. Code §123.21]**General**

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

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

Pursuant to the provisions of 25 Pa. Code Section 123.31, there shall be no malodorous emissions from any operation related to any source covered under this Operating Permit.

004 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

005 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Whenever the three (3) turbines are operating under ambient sub zero temperature conditions, the allowable PPMVD emission limit listed in Condition #008 of this GROUP 01 does not apply for NOX, CO & VOC emissions.

The company shall meet the following emission limitations during operation of the three (3) turbines under ambient sub zero temperature conditions:

NOX - 120.0 PPMVD @ 15 % O₂, 21.17 lb/hr- 1-hour

CO - 150.0 PPMVD @ 15 % O₂, 16.11 lb/hr- 1-hour

VOC - 75.0 PPMVD @ 15 % O₂, 4.62 lb/hr- 1-hour

The company shall not operate the turbines for more than 300 hours/year under ambient sub zero temperature conditions on a 12 - month rolling sum.

**SECTION E. Source Group Restrictions.****# 006 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

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

NOx- 0.79 lb/each event
CO- 16.07 lb/each event
VOC- 1.29 lb/each event.

Event is defined as 1 startup & 1 shut down. The number of start up and shutdowns are limited to 300 per year for each turbine on a 12 - month rolling sum. Startup or shutdown period shall not be more than 10 minutes.

007 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Emissions from the three (3) turbines including emissions during operating under sub zero temperature conditions, start-ups and shutdowns shall not exceed the following limits during any consecutive 12-month rolling period:

Pollutant	Emission Limits in tons per year (12 month rolling sum)
NOx	60.73
CO	76.42
VOC	20.36

008 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

(a) Pursuant to best available technology (BAT) requirements of Chapter 127.12(5), the facility is subject to the following air contaminant emission limitations from SOURCE ID 113 Turbine during normal operation WITH fan cooler.

- (1) NOX - 1-hour average - 25.0 PPMVD @ 15 % O₂, 4.09 lb/hr, 0.09 lb/mmBtu.
- (2) CO - 1-hour average - 50.0 PPMVD @ 15 % O₂, 4.98 lb/hr.
- (3) VOC - 25.0 PPMVD @ 15 % O₂, 1.41 lb/hr.

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

009 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Definitions:

(a) A startup is defined as operation in the period beginning when continuous fuel flow to the combustion turbine is initiated and ending when the combustion turbine achieves operating load above 50 % at any operating temperature.

(b) Shutdown is defined as the period beginning with the lowering of unit operating load below 50% with the intent of ceasing operation of the unit and ending with the termination of continuous fuel flow to the combustion turbine.

010 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

(b) Pursuant to 25 Pa. Code §§127.1 and 127.12, startup electric motor shall be the only startup capability equipment

**SECTION E. Source Group Restrictions.**

equipped on each turbine, i.e. incorporating electric starter motor with a backup start-up capability that has the potential for leaks, such as, a backup start-up capability using compressed natural gas is prohibited.

011 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

The company shall not operate any turbine under low load settings at any time except startup and shutdown. Low load settings are defined as turbine load of below 50% of maximum load.

012 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

(a) Pursuant to best available technology (BAT) requirements of Chapter 127.12(5), the facility is subject to the following air contaminant emission limitations from the three (3) turbines (SOURCE ID 113,114,115) during normal operation WITHOUT fan cooler.

- (1) NOX - 1-hour average - 25.0 PPMVD @ 15 % O₂, 3.99 lb/hr, 0.09 lb/mmbtu,
- (2) CO - 1-hour average - 50.0 PPMVD @ 15 % O₂, 4.86 lb/hr.
- (3) VOC - 25.0 PPMVD @ 15 % O₂, 1.39 lb/hr.

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

Fuel Restriction(s).**# 013 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

All combustion turbines described in this permit shall combust only pipeline quality natural gas as a fuel.

014 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

015 [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 sulfur content of the fuel fired by these sources shall not exceed 0.80% Sulfur by weight.

Throughput Restriction(s).**# 016 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

Combined heat input for the turbines shall never exceed 1,200,000 mmbtu/yr on a 12 month rolling sum basis based on higher heating value.

II. TESTING REQUIREMENTS.**# 017 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

(a) The permittee shall, on a semi-annual basis, perform Nitrogen Oxides (NO_x) emission tests on each of these sources,

**SECTION E. Source Group Restrictions.**

using a Department approved portable analyzer, to determine compliance with the NOx emission limitation.

(b) The permittee is exempted from performing the test required by paragraph (a) of this section on a source if that unit has operated less than 219 hours during the semi-annual period.

018 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

019 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

020 [25 Pa. Code §127.512]**Operating permit terms and conditions.****Actions Related to Noncompliance Demonstrated by a Stack Test:**

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

(b) If the results of the required stack test exceed any limit defined in this operating permit, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with this Operating Permit, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee receiving the original stack test results, a retest shall be performed. The Department may extend the retesting deadline if the Permittee demonstrates, to the Department's satisfaction, that retesting within 120 days is not practicable. Failure of the second test to demonstrate compliance with the limits in this Operating Permit, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the operating permit may be grounds for immediate revocation of this Operating Permit to operate the affected source.

021 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

**SECTION E. Source Group Restrictions.**

ASTM D 6522 or equivalent as approved by the Department.

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

III. MONITORING REQUIREMENTS.**# 022 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

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

023 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall monitor and record the hours of operation of each of these sources.

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

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

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

Pursuant to best available technology (BAT) requirements of 25 Pa. Code Sections 127.1 and 127.12, each turbine shall be equipped, prior to initial start-up, with instrumentation to continuously monitor manufacturer's recommended, operational parameters which will indicate whether the turbine is operating in a low-NO_x (SoLoNO_x) mode.

026 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

027 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

- (a) The permittee shall develop a leak detection and repair (LDAR) program and perform LDAR monitoring.
- (b) The LDAR monitoring must be conducted on each pump, valve, relief valve, flange, connector, storage vessel/storage tank, open ended line and compressor seal, if applicable, in natural gas or hydrocarbon liquids service using an optical gas imaging camera such as a FLIR camera or a gas leak detector capable of reading methane concentrations in air of 0% to 5% with an accuracy of +/- 0.2%.
- (c) The permittee may request, in writing, the use of other leak detection monitoring devices, to be approved, in writing, by the Department. Such LDAR monitoring equipment shall be operated in accordance with manufacturer-recommended procedures and, where applicable, Method 21 specified in 40 CFR Part 60, Appendix A. Each LDAR monitoring device shall be calibrated before use on each day of its use by following the manufacturer-recommended procedures or the procedure set forth at Method 21 specified in 40 CFR Part 60, Appendix A.
- (d) Leak means:
- (i) Any emissions imaged by the optical gas instrument;
 - (ii) Indications of liquids dripping;
 - (iii) Indications by a sensor that a seal or barrier fluid system has failed;
 - (iv) Screening results using a gas leak detector exceeding 2.5% methane and/or 500 ppm of VOCs.

**SECTION E. Source Group Restrictions.**

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

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

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

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

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

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

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

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

028 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

029 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

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

IV. RECORDKEEPING REQUIREMENTS.**# 030 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

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

**SECTION E. Source Group Restrictions.****# 031 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

(a) The permittee shall submit semi-annual reports to the Department on the following information for these sources:

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

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

(3) The amount of fuel consumed per month.

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

032 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

(a) The company shall maintain a file containing all records and other data that are required to be collected pursuant to the various provisions of this plan approval. The file shall include, but not be limited to: all air pollution control systems performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment which is subject to this plan approval. All measurements, records and other data required to be maintained by the company shall be retained for at least five (5) years following the date on which such measurements, records or data are recorded.

(b) The company shall maintain following records:

(i) Data which clearly demonstrates that the heat input for each turbine never exceeds its rated capacity.

(ii) The records shall provide sufficient data to clearly demonstrate that the requirement of plan approval conditions are met.

(iii) Monthly hours of operation for each turbine in Peak Mode and under sub zero temperature conditions including start-up and shutdown period for each turbine.

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

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

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

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

033 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

(b) Leaks, repair methods and repair delays shall be recorded and maintained for a period of five (5) years.

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

034 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

**SECTION E. Source Group Restrictions.**

performed as a result of the inspection findings.

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

035 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

036 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

037 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

Note: "Malfunction" means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

038 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.7]**Subpart A - General Provisions****Notification and record keeping.**

(a) The permittee 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.

(b) The permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records.

V. REPORTING REQUIREMENTS.**# 039 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

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

(b) Any changes in the location of the aforementioned sources, or any changes in the process or control equipment would be considered a modification and would require the submittal of an amended application.

(c) These turbines are subject to Subpart KKKK of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart.

(d) 40 CFR §60.4 requires submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

**SECTION E. Source Group Restrictions.**

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

(e) Any notification as a result of any condition herein should be directed to:

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

040 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

(a) The Owner or Operator, within one (1) hour of discovery, shall notify the Department at (570) 826-2511, of any malfunction of the source(s) or associated air cleaning device(s) which results in, or may possibly be resulting in, the emission of air contaminants in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection.

(b) A written report shall be submitted to the Department within five (5) working days following the incident describing the malfunctions and corrective actions taken. The Department may take enforcement actions for any violations of the applicable standards.

041 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

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

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

(3) The amount of fuel consumed per month.

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

VI. WORK PRACTICE REQUIREMENTS.**# 042 [25 Pa. Code §127.444]****Compliance requirements.**

The permittee shall ensure compliance with the limitations of SOURCE GROUP 01 - Conditions #001 & #002 through use of only pipeline quality natural gas by these sources.

043 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

(a) The aforementioned sources may only be operated as long as the associated air pollution control devices are operated and maintained in accordance with the specifications set forth in this Operating Permit as approved by the Department and in accordance with any conditions set forth herein.

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

**SECTION E. Source Group Restrictions.**

(c) The company shall maintain and operates the air pollution control equipment and source in accordance with good engineering practice.

044 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the turbine's shall be:

(a) Constructed, operated and maintained in accordance with the manufacturer's specifications or by the Department.

(b) Operated in a manner consistent with good air pollution control practices for minimizing emissions at all times, including periods of startup, shutdown and malfunction.

045 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

046 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

The centrifugal compressor, along with the wet seals, shall be maintained in accordance with the manufacturer's recommended practices.

047 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

The permittee shall not operate turbine without the simultaneous operation of the turbine's respective SoLoNOx system except operating turbine under zero degree temperature and during startup and shutdown events.

048 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

The permittee shall operate all air cleaning devices at all times once operating parameters (temperature, flow, etc.) are sufficient for proper operation.

049 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Pursuant to 25 Pa. Code §§ 127.1 and 127.12 (relating to best available technology), the permittee shall follow the manufacturers recommendations for procedures of startup and shutdown.

VII. ADDITIONAL REQUIREMENTS.**# 050 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

All three (3) combustion turbines shall employ a lean-premixed dry low emissions system (SoLoNOX) to control NOx emissions.

051 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

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

052 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

**SECTION E. Source Group Restrictions.**

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GROUP 02

Group Description: RACT 1 Combustion Units

Sources included in this group

ID	Name
033	HEATING FURNACE 2 (2F)
034	HEATING FURNACE 3 (3F)

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §123.22]****Combustion units**

The concentration of Sulfur Oxides (expressed as SO₂) in the emissions from each of these sources may not exceed 4 Pounds per Million BTU of Sulfur Dioxide, over any one (1) hour 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).

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 002 [25 Pa. Code §127.444]****Compliance requirements.**

The permittee shall ensure compliance with the limitation of SOURCE GROUP 02 - Condition #001 through the use of only pipeline quality natural gas by these sources.

003 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Authority of this condition comes from 25 Pa. Code §129.93(c)(1)].

To optimize combustion efficiency, the permittee shall operate and maintain these sources in accordance with the manufacturer's specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GROUP 03

Group Description: RACT 1 Processes

Sources included in this group

ID	Name
105	THREE (3) CONTROL BLDG A SPACE HEATERS
106	SPACE HEATER 4 (4SH)
107	FOUR (4) PIPELINE WAREHOUSE SPACE HEATERS
108	SPACE HEATER 9 (9SH)
109	HOT WATER HEATER 1 (1HWH)
110	HOT WATER HEATER 2 (2HWH)
111	HOT WATER HEATER 3 (3HWH)

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not emit into the outdoor atmosphere of particulate matter, from these sources, in such a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

002 [25 Pa. Code §123.21]

General

The concentration of Sulfur Oxides (expressed as SO₂) in the emissions from each of these sources may not exceed 500 Parts per Million (by volume, on a dry-basis) of Sulfur Dioxide.

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.

003 [25 Pa. Code §127.444]

Compliance requirements.

The permittee shall ensure compliance with the limitations of SOURCE GROUP 03 - Conditions #001 & #002 through the use of only pipeline quality natural gas by these sources.

**SECTION E. Source Group Restrictions.****# 004 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

To optimize combustion efficiency, the permittee shall operate and maintain these sources in accordance with the manufacturer's specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

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

***** 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.**

(a) The Department received the operating permit application for this facility on 05/24/2023. The facility is required to pay an Annual Operating Permit Maintenance Fee in accordance with Pennsylvania Code, Title 25, Chapter 127, Section 127.704(d). The Annual Maintenance Fee is due on or before December 31 of each year for the next calendar year.

(b) This permit is a renewal of Operating Permit No. 58-00001 and includes conditions from administrative amendment for the modification Operating Permit TV #58-00001 issued 09/24/2020 and includes conditions from Plan Approval No. 58-00001A issued 01/04/2018, and Plan Approval No. 58-329-037 issued 05/09/2012, and Plan Approval No. 58-329-008 issued 04/28/2010, and a minor modification application received 01/22/2019 and issued 03/19/2019.

(c) This is a Title V Operating Permit facility.

The following sources at this facility have been determined to be of minor significance with regards to air pollution:

- (1) Space Heaters.
- (2) Temporary Portable gas turbines.
- (3) Fugitive emissions from leaks from piping component leaks.
- (4) Miscellaneous activities such as air operated lube pumps, parts cleaning units, fueling of vehicles, piping blowdowns, manual relief valves, and meter testing.

RFD'S

- RFD #58-0149 issued 02/06/2019 to conduct a turbine core change out for Source ID 117, as part of routine maintenance. The new turbine core will increase the horsepower from 10,300 hp to 11,000 hp. The new core will also decrease NOx emissions from 15 ppm to 9 ppm.
- RFD #58-0147 issued 01/24/2019 for removing Condition #031, Section E, III of Title V permit (originally Condition E, III, #020 Plan Approval No. 58-00001A).
- RFD #58-0125 issued 06/07/2017 for replacement of "turbine core" for Source ID 115.
- RFD #58-0118 issued 12/19/2016 for revision to sub-zero temperature operating hours and start-up/shut down events associated with the existing three Centaur 40 Turbines identified by Sources ID 113, 114, and 115.
- RFD #58-0087 issued 04/24/2017 for the installation of ancillary piping to tie into existing piping, a new pig receiver, and an additional odorant facility.
- RFD #58-0083 issued 01/05/2015 for a portable emergency generator in place of Source ID 116.
- RFD #58-0037 issued 12/19/2012 for installation of inlet air cooling to Source ID 113 and Source ID 117.

The following restrictions apply to the portable Emergency Generator(s):

- (i) NOx emissions shall be less than 100 lbs/hr, 1000 lbs/day, 2.75 tons per ozone season and 6.6 tons per year on a 12-month rolling basis from the Emergency Generator.
- (ii) The permittee shall comply with all associated requirements of 40 CFR 63 Subpart ZZZZ and 40 CFR 60 Subpart IIII or 40 CFR Subpart JJJJ.
- (iii) The Emergency Generator is limited to 500 hours of operation based on a 12 month rolling sum.
- (iv) The permittee shall, at a minimum, record and maintain records showing the NOx emission limit and hour restriction. In addition, records shall be maintained in accordance with 40 CFR 63 Subpart ZZZZ and 40 CFR 60 Subpart IIII or 40 CFR Subpart JJJJ. These records shall be made available to the department and maintained for a period of five (5) years.
- (v) The Emergency Generators shall be equipped with a non-resettable meter for hours of operation prior to startup and the meter shall be operated at all times the source is in operation.
- (vi) The permittee shall keep records of the number of hours that the source operates on a monthly basis to verify compliance with the operation hours restriction in any 12 consecutive month period.
- (vii) PM emissions shall not exceed 0.04 gr/dsc.

On 4/07/2025, this operating permit was administratively amended to include the newly applicable requirements from the Plan Approval No. 58-00001B.



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