



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: December 29, 2020

Effective Date: December 29, 2020

Expiration Date: December 28, 2025

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

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

TITLE V Permit No: 40-00002

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

Owner Information

Name: TRANSCONTINENTAL GAS PIPE LINE CO LLC
Mailing Address: 99 FARBER RD
PRINCETON, NJ 08540

Plant Information

Plant: TRANSCONTINENTAL GAS/BEAR CREEK STA 515
Location: 40 Luzerne County 40926 Buck Township
SIC Code: 4922 Trans. & Utilities - Natural Gas Transmission

Responsible Official

Name: GLEN JASEK
Title: VP GMEASTERN INTERSTATES
Phone: (713) 215 - 2134

Permit Contact Person

Name: MICHAEL HAHN
Title: ENVIRONMENTAL SPECIALIST
Phone: (609) 285 - 2407

[Signature] _____
MARK J. WEJKSZNER, NORTHEAST REGION AIR PROGRAM MANAGER



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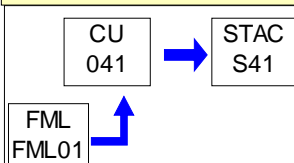
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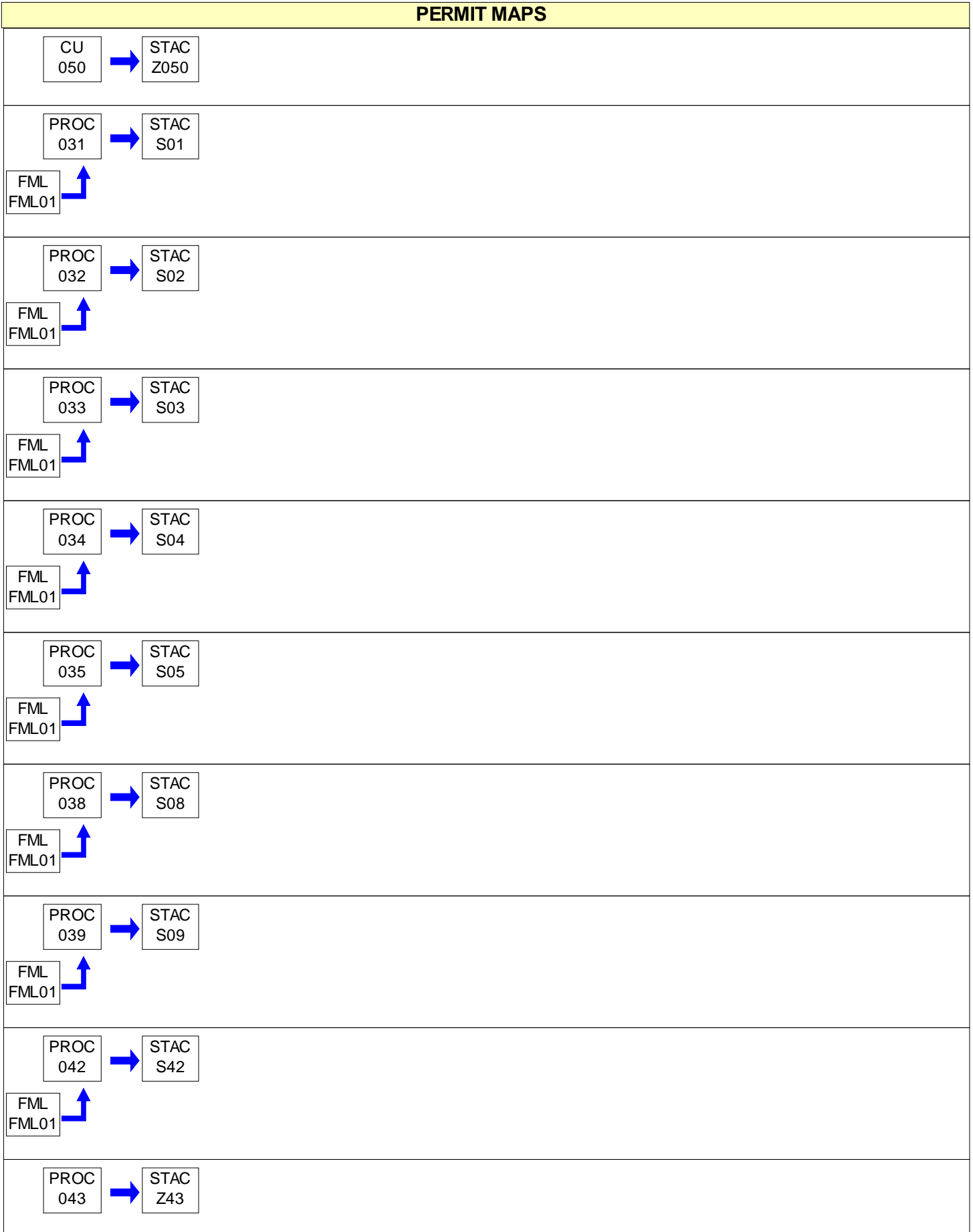
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
041	CYCLOTHERM BOILER	4.000 MMBTU/HR	
		4.290 MCF/HR	Natural Gas
050	(17) SPACE HEATERS		
031	#1 COOPER-BESSEMER GMWC-10 COMPRESSOR		
032	#2 COOPER-BESSEMER GMWC-10 COMPRESSOR	25.210 MCF/HR	Natural Gas
033	#3 COOPER-BESSEMER GMWC-10 COMPRESSOR	25.210 MCF/HR	Natural Gas
034	#4 COOPER-BESSEMER 10V-250 COMPRESSOR	25.210 MCF/HR	Natural Gas
035	#5 COOPER-BESSEMER 10V-250 COMPRESSOR	25.210 MCF/HR	Natural Gas
038	#6 SOLAR MARS GAS TURBINE	135.700 MMBTU/HR	
		123.400 MCF/HR	Natural Gas
039	#7 SOLAR MARS 100 GAS TURBINE	125.950 MMBTU/HR	
042	WAUKESHA EMERGENCY GENERATOR		
043	PARTS WASHER/DEGREASER		
044	#8 SOLAR MARS 100 GAS TURBINE		
045	EMERGENCY GENERATOR (#2)		
101	FUGITIVE VOC EMISSIONS FROM VALVES AND FLANGES		
C044	OXIDATION CATALYST		
FML01	NATURAL GAS PIPELINE		
S01	CB 1 STACK		
S02	CB 2 STACK		
S03	CB 3 STACK		
S04	CB 4 STACK		
S044	#8 SOLAR MARS 100 STACK		
S045	EMER GEN (#2) STACK		
S05	CB 5 STACK		
S08	#6 MARS SOLAR STACK		
S09	#7 SOLAR MARS 100 STACK		
S41	CYCLOTHERM BOILER STACK		
S42	EMER GENERATOR STACK		
Z050	SPACE HEATER FUGITIVES		
Z101	FUGITIVE EMISSIONS		
Z43	DEGREASER STACK		

PERMIT MAPS

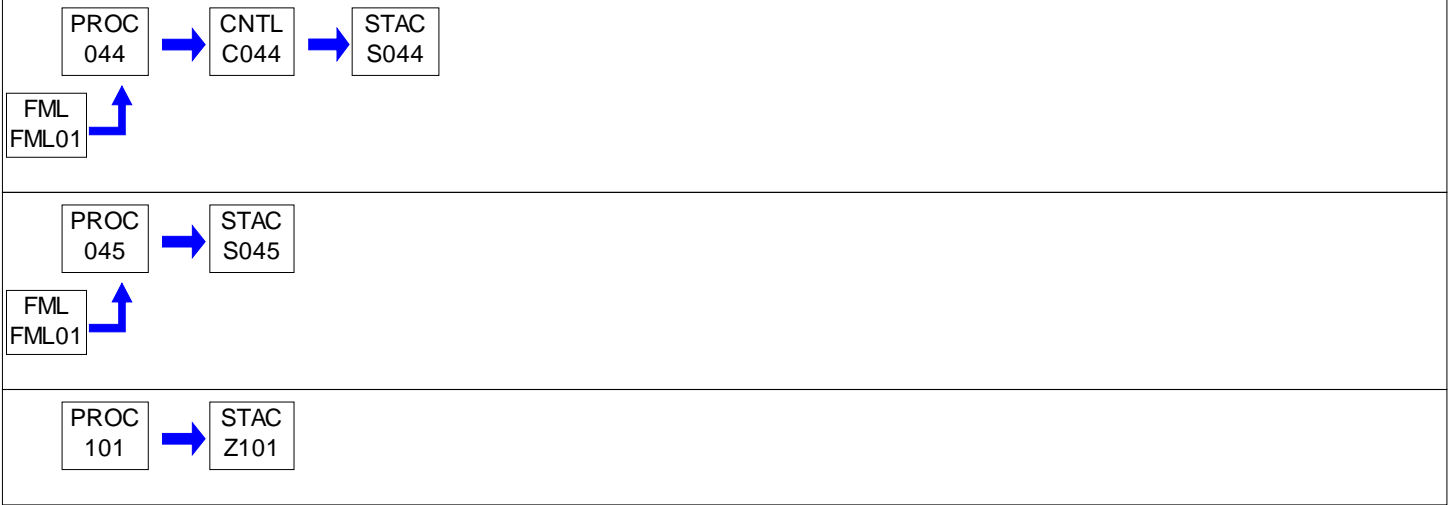


PERMIT MAPS





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 act.

#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]**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.

(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 the Department.

**SECTION B. General Title V Requirements**

(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.

#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

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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].

#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

**SECTION B. General Title V Requirements**

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).

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

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

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

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(e) The permittee shall pay an annual operating permit administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.

(f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

#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.
- (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.

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(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 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,

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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
Air Section
1650 Arch Street, 3ED21
Philadelphia, PA 19103

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 §§ 127.511 & 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

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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.

#025 [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.

#026 [25 Pa. Code § 127.513]**Compliance Certification**

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

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

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

#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:

**SECTION B. General Title V Requirements**

- (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.
- (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.

**SECTION B. General Title V Requirements**

(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 a fugitive air contaminant from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land.
- (5) Stockpiling of materials.

(6) Sources and classes of sources other than those identified in paragraphs (1)-(5), 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.

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

(b) The permittee may not permit fugitive particulate matter from sources specified in paragraph (a)(1)-(6) if the emissions pass outside the person's property.

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

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 123.1(a)(1) -- (6) (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****MALODOROUS EMISSIONS**

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

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

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

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

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

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

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

**SECTION C. Site Level Requirements**

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

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

006 [25 Pa. Code §127.36]**Health risk-based emission standards and operating practice requirements.**

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

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

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

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

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

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

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

II. TESTING REQUIREMENTS.**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

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

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

**SECTION C. Site Level Requirements**

- iii) Indications by a sensor that a seal or barrier fluid system has failed;
- iv) Screening results using a gas leak detector exceeding 2.5% methane and/or 500 ppm of VOCs.
- (e) A release from any equipment or component designed by the manufacturer to protect the equipment, controller(s), safety of personnel, to prevent ground water contamination, to prevent gas migration, or an emergency situation is not considered a leak.
- (f) The permittee shall monitor each pump, valve, relief valve, flange, connector, storage vessel/storage tank, open ended line and compressor seal, if applicable, in natural gas or hydrocarbon liquids service at least annually.
- (g) Leaks shall be repaired no later than 15 calendar days after a leak is detected, unless facility shutdowns or ordering of replacement parts is necessary for repair of the leak(s).
- (h) A leak is considered repaired if it is adjusted or otherwise altered and one of the following can be demonstrated after such adjustment or alteration:
 - i) No detectable emissions consistent with EPA Method 21 specified in 40 CFR Part 60, Appendix A;
 - ii) A concentration of 2.5% methane or less using a gas leak detector and a VOC concentration of 500 ppm or less;
 - iii) No visible leak image when using an optical gas imaging camera; if an optical gas imaging camera was originally used to detect the leak;
 - iv) No bubbling at leak interface using a soap solution bubble test specified in EPA Method 21; or a procedure based on the formation of bubbles in a soap solution that is sprayed on a potential leak source may be used for those sources that do not have continuously moving parts and that do not have a surface temperature greater than the boiling point or less than the freezing point of the soap solution; or
 - v) Any other method approved, in writing, by the Department.
- (i) If a leak is not repaired within fifteen (15) days after it is detected, the leaking equipment or component must be listed on a Delay of Repair (DOR) List. The owner or operator must submit a written request to the appropriate regional office for an extension of the 15 day repair deadline. This includes extensions required due to facility shutdowns and/or the ordering of replacement parts. The written request shall also include the reason(s) for the extension request and the schedule for completion of the repairs. The Department may grant an extension of the LDAR deadline based upon the written request.
- (j) The optical gas imaging camera or other Department-approved gas leak detection equipment shall be operated in accordance with manufacturer-recommended procedures. For the storage vessel, if applicable, any leak detection and repair must be performed in accordance with 40 CFR Part 60, Subpart OOOO.
- (k) The permittee shall, at a minimum, on a monthly basis perform audible, visual, and olfactory (AVO) inspections to detect leaks from the equipment listed above.

008 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

009 [25 Pa. Code §139.1]**Sampling facilities.**

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

010 [25 Pa. Code §139.11]**General requirements.**

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

- (1) Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.
- (2) The Department will consider for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum all of the following:
 - (i) A thorough source description, including a description of any air cleaning devices and the flue.

**SECTION C. Site Level Requirements**

- (ii) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature, and other conditions which may affect emissions from the process.
- (iii) The location of the sampling ports.
- (iv) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO₂, O₂ and N₂), static and barometric pressures.
- (v) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
- (vi) Laboratory procedures and results.
- (vii) Calculated results.

III. MONITORING REQUIREMENTS.**# 011 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

012 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

- (a) Beginning on the start-up date of Source ID 044 or 045, whichever comes first, 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.

IV. RECORDKEEPING REQUIREMENTS.**# 013 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

The permittee shall maintain a logbook of the visible emission, malodorous emission, and fugitive emission inspections/corrective action procedures in accordance with Site Level Requirement #019 and General Title V Requirement, Condition #024.

014 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

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

The company, within one hour of discovering an occurrence, shall notify the Department, at 570-826-2511, of any malfunction, recordkeeping and reporting errors, or other possible non-compliance issues, which result in, or may possibly be resulting in, the emission of air contaminants in excess of the limitations specified in, or established pursuant to, any

**SECTION C. Site Level Requirements**

applicable rule or regulations contained in Article III of the Rules and Regulations of the Department of Environmental Protection. A written report shall be submitted to the Department within five working days following the incident describing the malfunction, recordkeeping and reporting error or other non-compliance issue and the corrective actions being taken. The Department may take enforcement action for any violations of the applicable standards.

016 [25 Pa. Code §127.513]**Compliance certification.**

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

017 [25 Pa. Code §135.21]**Emission statements**

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

VI. WORK PRACTICE REQUIREMENTS.**# 018 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

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

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (2) Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (3) Paving and maintenance of roadways.
- (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.

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

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

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

VII. ADDITIONAL REQUIREMENTS.**# 020 [25 Pa. Code §121.7]****Prohibition of air pollution.**

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

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

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

**SECTION C. Site Level Requirements****# 022 [25 Pa. Code §129.14]****Open burning operations**

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 subsections (a) and 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.

023 [25 Pa. Code §137.5]**Implementation of emission reduction procedures**

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

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

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

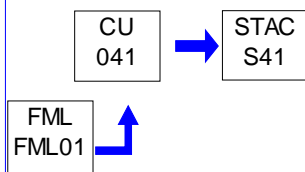
**SECTION D. Source Level Requirements**

Source ID: 041

Source Name: CYCLOTHERM BOILER

Source Capacity/Throughput: 4.000 MMBTU/HR

4.290 MCF/HR Natural Gas

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

001 [25 Pa. Code §123.11]

Combustion units

A person may not permit the emission into the outdoor atmosphere of particulate matter from this source in excess of 0.4 pound per million Btu of heat input.

002 [25 Pa. Code §123.22]

Combustion units

[Compliance with the requirements specified in this streamlined permit condition assures compliance with the provisions in 40 CFR 52.2020.]

The permittee shall not permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

003 [25 Pa. Code §127.512]

Operating permit terms and conditions.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The company shall maintain records for all air pollution control systems performance evaluations and records of calibration checks, adjustments and maintenance performed on the source.

The company shall maintain records that demonstrate the installation, maintenance, and operation of the source is performed in accordance with manufacturers specifications and good air pollution control practices.

**SECTION D. Source Level Requirements**

The permittee shall calculate the annual emissions based on a 12-month rolling sum. These records shall be maintained in accordance with General Title V Requirement #024.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7555]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What records must I keep?

(a) You must keep records according to paragraphs (a)(1) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7185, Jan. 31, 2013; 80 FR 72816, Nov. 20, 2015]

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7560]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off site for the remaining 3 years.

[76 FR 15664, Mar. 21, 2011]

V. REPORTING REQUIREMENTS.**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7530]**

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

How do I demonstrate initial compliance with the emission limitations, fuel specifications and work practice standards?

(e) You must include with the Notification of Compliance Status a signed certification that either the energy assessment was completed according to Table 3 to this subpart, and that the assessment is an accurate depiction of your facility at the time of the assessment, or that the maximum number of on-site technical hours specified in the definition of energy assessment applicable to the facility has been expended.

(f) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.7545(e).

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7174, Jan. 31, 2013; 80 FR 72811, Nov. 20, 2015]

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7550]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

What reports must I submit and when?

(a) You must submit each report in Table 9 to this subpart that applies to you.

(b) Unless the EPA Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report, according to paragraph (h) of this section, by the date in Table 9 to this subpart and according to the requirements in paragraphs (b)(1) through (4) of this section. For units that are subject only to a requirement to conduct

**SECTION D. Source Level Requirements**

subsequent annual, biennial, or 5-year tune-up according to §63.7540(a)(10), (11), or (12), respectively, and not subject to emission limits or Table 4 operating limits, you may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of this section, instead of a semi-annual compliance report.

(1) If submitting an annual, biennial, or 5-year compliance report, the first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in §63.7495 and ending on December 31 within 1, 2, or 5 years, as applicable, after the compliance date that is specified for your source in §63.7495.

(2) The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31.

(3) Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31.

(4) Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31.

(5) For each affected source that is subject to permitting regulations pursuant to part 70 or part 71 of this chapter, and if the permitting authority has established dates for submitting semiannual reports pursuant to 70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established in the permit instead of according to the dates in paragraphs (b)(1) through (4) of this section.

(c) A compliance report must contain the following information depending on how the facility chooses to comply with the limits set in this rule.

(1) If the facility is subject to the requirements of a tune up you must submit a compliance report with the information in paragraphs (c)(5)(i) through (iii) of this section, (xiv) and (xvii) of this section, and paragraph (c)(5)(iv) of this section for limited-use boiler or process heater.

(5)(i) Company and Facility name and address.

(ii) Process unit information, emissions limitations, and operating parameter limitations.

(iii) Date of report and beginning and ending dates of the reporting period.

(xvii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(h)(3) You must submit all reports required by Table 9 of this subpart electronically to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX.) You must use the appropriate electronic report in CEDRI for this subpart. Instead of using the electronic report in CEDRI for this subpart, you may submit an alternate electronic file consistent with the XML schema listed on the CEDRI Web site (<http://www.epa.gov/ttn/chief/cedri/index.html>), once the XML schema is available. If the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, you must submit the report to the Administrator at the appropriate address listed in §63.13. You must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI.

[78 FR 7183, Jan. 31, 2013, as amended at 80 FR 72814, Nov. 20, 2015]

VI. WORK PRACTICE REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code §129.93]

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

**SECTION D. Source Level Requirements****# 010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7500]****Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****What emission limits, work practice standards, and operating limits must I meet?**

(a)(3) At all times, you must operate and maintain any affected source (as defined in §63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(e) Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity of less than or equal to 5 million Btu per hour must complete a tune-up every 5 years as specified in §63.7540. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13 to this subpart, or the operating limits in Table 4 to this subpart.

[76 FR 15664, Mar. 21, 2011, as amended at 78 FR 7163, Jan. 31, 2013; 80 FR 72807, Nov. 20, 2015]

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7510]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****What are my initial compliance requirements and by what date must I conduct them?**

(e) You must complete an initial tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) no later than the compliance date specified in §63.7495, except as specified in paragraph (j) of this section. You must complete the one-time energy assessment specified in Table 3 to this subpart no later than the compliance date specified in §63.7495.

[78 FR 7164, Jan. 31, 2013, as amended at 80 FR 72808, Nov. 20, 2015]

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7515]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****When must I conduct subsequent performance tests or fuel analyses, or tune-ups?**

(d) If you are required to meet an applicable tune-up work practice standard, you must conduct an annual, biennial, or 5-year performance tune-up according to §63.7540(a)(10), (11), or (12), respectively. Each 5-year tune-up specified in §63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed affected source (as defined in §63.7490), the first annual, biennial, or 5-year tune-up must be no later than 13 months, 25 months, or 61 months, respectively, after April 1, 2013 or the initial startup of the new or reconstructed affected source, whichever is later.

[78 FR 7165, Jan. 31, 2013, as amended at 80 FR 72808, Nov. 20, 2015]

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7540]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****How do I demonstrate continuous compliance with the emission limitations, fuel specifications and work practice standards?**

(a)(12) If your boiler or process heater has a continuous oxygen trim system that maintains an optimum air to fuel ratio, or a heat input capacity of less than or equal to 5 million Btu per hour and the unit is in the units designed to burn gas 1; units designed to burn gas 2 (other); or units designed to burn light liquid subcategories, or meets the definition of limited-use boiler or process heater in §63.7575, you must conduct a tune-up of the boiler or process heater every 5 years as specified in paragraphs (a)(10)(i) through (vi) of this section to demonstrate continuous compliance. You may delay the burner inspection specified in paragraph (a)(10)(i) of this section until the next scheduled or unscheduled unit shutdown, but you must inspect each burner at least once every 72 months.

[Excerpt from (a)(10)(i) – (iv)]

**SECTION D. Source Level Requirements**

- (i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;
- (ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
- (iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown).
- (iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject;
- (v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and
- (vi) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (a)(10)(vi)(A) through (C) of this section,
- (A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;
- (B) A description of any corrective actions taken as a part of the tune-up; and
- (a)(13) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup.

[78 FR 7179, Jan. 31, 2013, as amended at 80 FR 72813, Nov. 20, 2015]

VII. ADDITIONAL REQUIREMENTS.

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

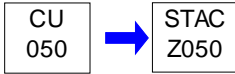
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 050

Source Name: (17) SPACE HEATERS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION D. Source Level Requirements**

Source ID: 031

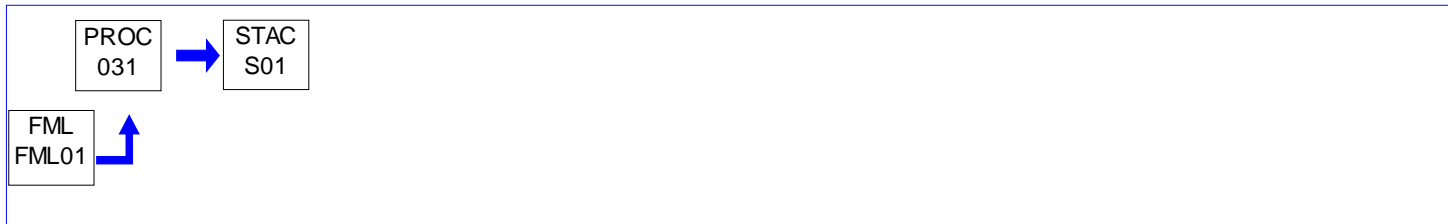
Source Name: #1 COOPER-BESSEMER GMWC-10 COMPRESSOR

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 1

2

3

**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. *****

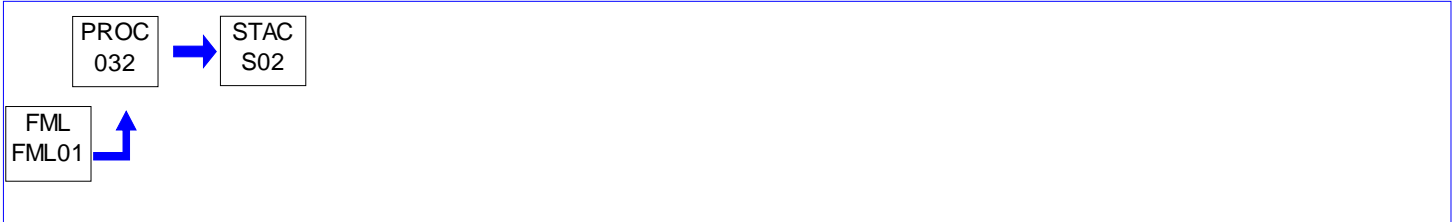
**SECTION D. Source Level Requirements**

Source ID: 032

Source Name: #2 COOPER-BESSEMER GMWC-10 COMPRESSOR

Source Capacity/Throughput: 25.210 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 1
2
3

**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. *****

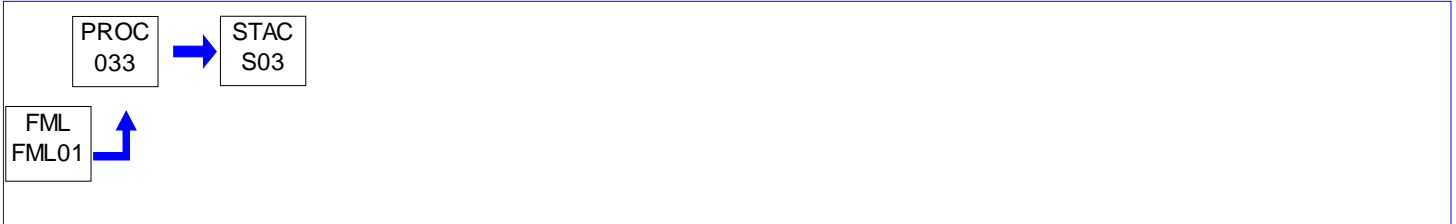
**SECTION D. Source Level Requirements**

Source ID: 033

Source Name: #3 COOPER-BESSEMER GMWC-10 COMPRESSOR

Source Capacity/Throughput: 25.210 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 1
2
3

**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. *****

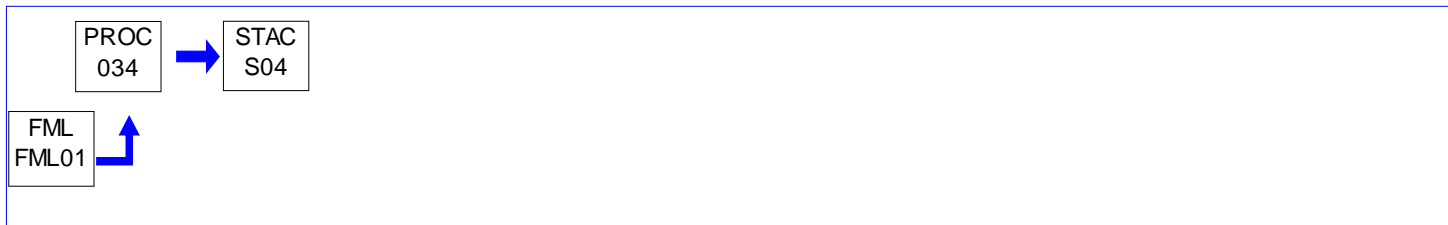
**SECTION D. Source Level Requirements**

Source ID: 034

Source Name: #4 COOPER-BESSEMER 10V-250 COMPRESSOR

Source Capacity/Throughput: 25.210 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 1
2
3

**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: 035

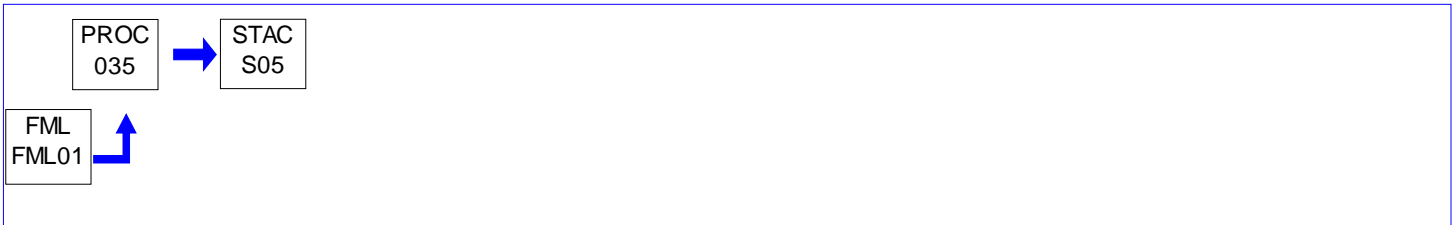
Source Name: #5 COOPER-BESSEMER 10V-250 COMPRESSOR

Source Capacity/Throughput:

25.210 MCF/HR

Natural Gas

Conditions for this source occur in the following groups: 1
2
3

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

The permittee shall not exceed the following emission limits, for this compressor engine:

- (a) 21.74 lbs/hr for Nitrogen Oxides (NO_x).
- (b) 7.5 lbs/hr for Volatile Organic Compounds (VOCs).

These emission limits do not apply during the startup and shutdown of the internal combustion engine. Each startup and shutdown period is limited to a maximum of one hour each.

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

The permittee shall perform annual tests for NO_x emissions using a Department approved portable analyzer. The Department may alter the frequency of the portable analyzer test based on the test results. The Department reserves the right to require stack testing in accordance with Chapter 139, of the Pennsylvania Code.

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

The permittee shall monitor this engine, at the specified frequency, using a Department-approved method, for the following:

- (a) Fuel consumption, daily.
- (b) Operating hours, daily.
- (c) Ignition timing, daily.
- (d) Air manifold pressure, daily.

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

The permittee shall maintain the following daily records of hourly data for this engine:

- (a) fuel usage.
- (b) operating hours.
- (c) ignition timing.
- (d) air manifold pressure.
- (e) calculations of the hourly NO_x and VOC emission rates.

**SECTION D. Source Level Requirements**

(f) Test results with calculations from all EPA reference method and portable analyzer stack tests conducted on the source.

These records shall be kept for a period of 5 years and be made available to the Department upon request.

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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate the IC engine in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

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

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

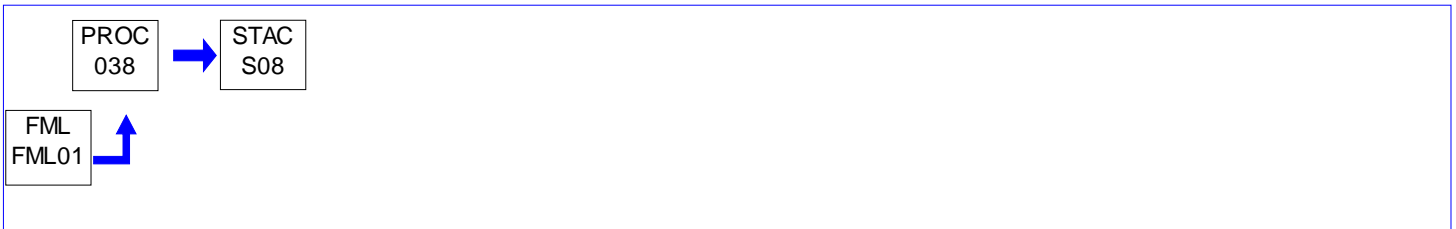
**SECTION D. Source Level Requirements**

Source ID: 038

Source Name: #6 SOLAR MARS GAS TURBINE

Source Capacity/Throughput: 135.700 MMBTU/HR

123.400 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 1
3**I. RESTRICTIONS.****Emission Restriction(s).**

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

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

Fuel Restriction(s).

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.333]
Subpart GG - Standards of Performance for Stationary Gas Turbines
Standard for sulfur dioxide.

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

Operation Hours Restriction(s).

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

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

II. TESTING REQUIREMENTS.

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

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

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

005 [25 Pa. Code §127.511]
Monitoring and related recordkeeping and reporting requirements.

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

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

**SECTION D. Source Level Requirements**

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

III. MONITORING REQUIREMENTS.**# 006 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

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

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

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.334]**Subpart GG - Standards of Performance for Stationary Gas Turbines****Monitoring of operations.**

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

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

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

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

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

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

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

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

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

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.335]**Subpart GG - Standards of Performance for Stationary Gas Turbines****Test methods and procedures.**

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

V. REPORTING REQUIREMENTS.**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.333]****Subpart GG - Standards of Performance for Stationary Gas Turbines****Standard for sulfur dioxide.**

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

Director
Air, Toxics and Radiation Division

**SECTION D. Source Level Requirements**

1650 Arch Street
Philadelphia, PA 19103-2029

VI. WORK PRACTICE REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

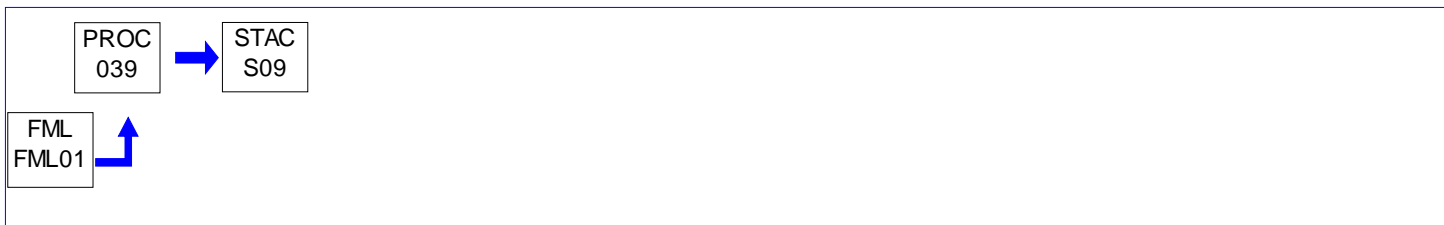
**SECTION D. Source Level Requirements**

Source ID: 039

Source Name: #7 SOLAR MARS 100 GAS TURBINE

Source Capacity/Throughput: 125.950 MMBTU/HR

Conditions for this source occur in the following groups: 1

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

No person may permit the emission into the outdoor atmosphere of particulate matter from Source ID 039 in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

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

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

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

No person may permit the emission of sulfur oxides expressed as 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.

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

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

CO - 1-hour average - 25 PPMVD @ 15 % O₂NO_x - 1-hour average - 15 PPMVD @15% O₂

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

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

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

VOC- 1.19 lb/hr

Formaldehyde- 0.00071 lb/mmbtu

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

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

Whenever the turbine is operating under ambient sub-zero temperature conditions, the allowable PPMVD emission limits listed in conditions of this permit do not apply for NO_x, CO, & VOC emissions. The company shall meet following emission

**SECTION D. Source Level Requirements**

limitations during operation of turbine under ambient sub-zero temperature conditions.

NOX- 120 PPMVD @ 15 % O₂, 59.9 lb/hr

CO- 150 PPMVD @ 15 % O₂, 45.6 lb/hr

VOC - 75 PPMVD @ 15 % O₂, 13 lb/hr

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

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

NO_x - 5.1 lb/each event

CO- 447.6 lb/each event

VOC - 6.38 lb/each event.

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

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

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

NO_x: 33.2

CO: 98.0

VOC: 5.2

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4300]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What is the purpose of this subpart?**

The facility is subject to 40 CFR Part 60 Subpart KKKK NO_x -1-hour average - 25 PPMVD @ 15% O₂ emission limit, however Pursuant to best available technology requirement of Chapter 127.12 (a)(5) requires the following air contaminant emission limitations from the turbine during normal operation.

NO_x - 1-hour average - 15 PPMVD @ 15 % O₂

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

Fuel Restriction(s).**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

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

012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4300]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What is the purpose of this subpart?**

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

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

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

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

Actions Related to Noncompliance Demonstrated by a Stack Test:

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

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

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

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

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

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

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

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

**SECTION D. Source Level Requirements**

b) Representative fuel sampling data which shows that the sulfur content of the fuel does not exceed 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of 40 CFR Part 75 Appendix D is required.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

IV. RECORDKEEPING REQUIREMENTS.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

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

2. The company shall maintain following records:

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

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

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

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

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

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

V. REPORTING REQUIREMENTS.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

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

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

**SECTION D. Source Level Requirements**

to:

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

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

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

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

- (1) The emission of carbon monoxide (CO), nitrogen oxides (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.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

40 CFR 63.6145 What notifications must I submit and when?

- (a) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), 63.8(f)(4), and 63.9(b) and (h) that apply to you by the dates specified.
- (b) N/A
- (c) As specified in §63.9(b), if you start up your new or reconstructed stationary combustion turbine on or after March 5, 2004, you must submit an Initial Notification not later than 120 calendar days after you become subject to this subpart.
- (d) If you are required to submit an Initial Notification but are otherwise not affected by the emission limitation requirements of this subpart, in accordance with §63.6090(b), your notification must include the information in §63.9(b)(2)(i) through (v) and a statement that your new or reconstructed stationary combustion turbine has no additional emission limitation requirements and must explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary combustion turbine).

**SECTION D. Source Level Requirements**

(e) N/A

(f) N/A

025 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4375]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What reports must I submit?**

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

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

VI. WORK PRACTICE REQUIREMENTS.**# 026 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

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

VII. ADDITIONAL REQUIREMENTS.**# 028 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

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

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

**SECTION D. Source Level Requirements**

Source ID: 042

Source Name: WAUKESHA EMERGENCY GENERATOR

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 3

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this source in excess of .04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

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

Fuel Restriction(s).

003 [25 Pa. Code §127.512]

Operating permit terms and conditions.

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

Operation Hours Restriction(s).

004 [25 Pa. Code §127.512]

Operating permit terms and conditions.

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

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.512]

Operating permit terms and conditions.

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

**SECTION D. Source Level Requirements**

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

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

006 [25 Pa. Code §127.512]

Operating permit terms and conditions.

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

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

VII. ADDITIONAL REQUIREMENTS.

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

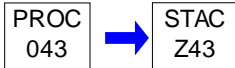
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 043

Source Name: PARTS WASHER/DEGREASER

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from any process in such a manner that the concentration of particulate matter in the effluent gas exceeds .02 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

002 [25 Pa. Code §129.63]

Degreasing operations

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

(1) Immersion cold cleaning machines shall have a freeboard ratio of 0.50 or greater.

(2) Immersion cold cleaning machines and remote reservoir cold cleaning machines shall:

(i) Have a permanent, conspicuous label summarizing the operating requirements in paragraph (3). In addition, the label shall include the following discretionary good operating practices:

(A) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.

**SECTION D. Source Level Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(7) Paragraph (4) does not apply:

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

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

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

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

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

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

**SECTION D. Source Level Requirements**

Source ID: 044

Source Name: #8 SOLAR MARS 100 GAS TURBINE

Source Capacity/Throughput:

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

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

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

No person may permit the emission of sulfur oxides expressed as 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 §127.441]**Operating permit terms and conditions.**

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

CO - 2 PPMVD @ 15 % O₂VOC - 3 PPMVD @15% O₂

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

NO_x - 15 PPMVD @15% O₂

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

i) Periods when the ambient temperature is below 0°F (non-SoLoNO_x operation).

ii) During startup and shutdown operations.

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

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

VOC- 0.84 lb/hr

Formaldehyde- 0.0007 lb/mmbtu

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

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

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

**SECTION D. Source Level Requirements**

Pollutant Emission Limits in tons per year (12 month rolling sum) for the turbine
 NOx 32.0
 CO 23.6
 VOC 2.2 tons of volatile organic compounds (including formaldehyde)

Fuel Restriction(s).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

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

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines**What is the purpose of this subpart?**

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

II. TESTING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Once the turbine and associated equipment of this plan approval is rolled into a Title V Operating Permit the permittee shall conduct stack test on the turbine (Source ID 044) once (1) during the term of the Title V Permit to demonstrate compliance with the emission limits established for the turbine.

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

nitrogen oxides
 carbon monoxide
 volatile organic compounds
 formaldehyde
 particulate matter
 total PM₁₀ (filterable and condensable)
 total PM_{2.5} (filterable and condensable)

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

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

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

1. Within 180 days of initial start-up, a stack test shall be performed in accordance with the provision of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection to demonstrate compliance with the emission limitations set by the conditions above for CO and VOC emissions. Testing shall also be conducted EPA reference method testing programs to determine the emission rates of formaldehyde, particulate matter, total PM₁₀ (filterable and condensable) and total PM_{2.5} (filterable and condensable) while the turbine is operating at plus or minus 10 percent of peak process load, or at other load as approved by the Department. Testing shall also be performed to demonstrate compliance with the NO_x emission limitation set by the 40 CFR part 60, Subpart KKKK conditions above. The stack tests shall be performed while the aforementioned sources are operating at the maximum rated capacity as stated on the application. If testing is performed at a rate of less than full production, operation is restricted to the process-input rate of testing at such level until a subsequent compliance test is performed at a full production.

2. At least sixty (60) calendar days prior to commencing an emission testing program required by this permit, a test protocol shall be submitted to the Department's Division of Source Testing and Monitoring and the Regional Office for review

**SECTION D. Source Level Requirements**

and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

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

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

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

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

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

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

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

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

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

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

012 [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

**SECTION D. Source Level Requirements**

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 plan approval may be grounds for immediate revocation of the plan approval to operate the affected source.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4375]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What reports must I submit?**

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

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

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

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

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

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

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

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

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

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

b) Representative fuel sampling data which shows that the sulfur content of the fuel does not exceed 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of 40 CFR Part 75 Appendix D is required.

**SECTION D. Source Level Requirements****# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

IV. RECORDKEEPING REQUIREMENTS.**# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

2. The company shall maintain following records:

- (a) The records shall provide sufficient data to clearly demonstrate that the requirement of plan approval conditions are met.
- (b) Monthly fuel consumption rate and 12-month rolling total fuel consumption, total heat input for the combustion turbine.
- (c) The supporting calculations used to verify the sulfur oxides and volatile organic compounds emission limitations.
- (d) The emission of nitrogen oxide and carbon monoxide on a monthly basis and calculations to verify compliance with the nitrogen oxide, carbon monoxide emission limitations in any 12 consecutive month period. The monthly calculations shall be once the turbine commences operation.
- (e) The number of start-ups and shut-downs to include date and times (duration) of each event on a monthly basis.
- (f) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

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

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

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

V. REPORTING REQUIREMENTS.**# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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 Plan Approval 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,

**SECTION D. Source Level Requirements**

applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

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

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

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

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

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

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

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

- (1) The emission of carbon monoxide (CO), nitrogen oxides (NO_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.**# 023 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

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

**SECTION D. Source Level Requirements**

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

VII. ADDITIONAL REQUIREMENTS.

025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

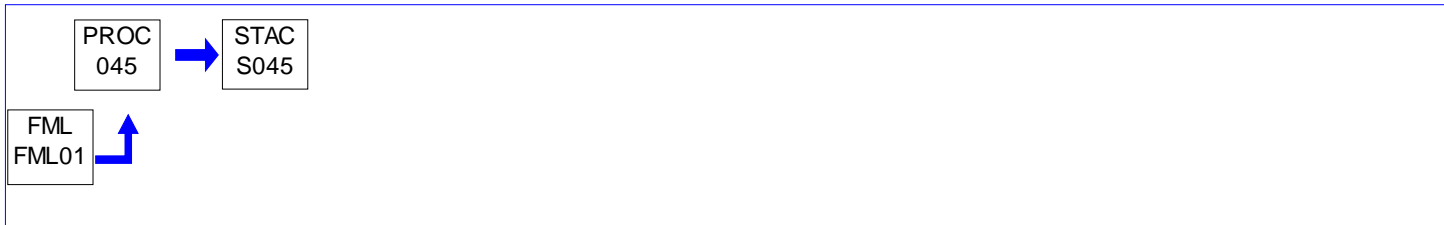
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**SECTION D. Source Level Requirements**

Source ID: 045

Source Name: EMERGENCY GENERATOR (#2)

Source Capacity/Throughput:

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

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

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

- a. NO_x at rated bhp and operating at rated speed - 2.0 grams per bhp-hour (gms/bhp-hr);
- b. VOC at rated bhp and operating at rated speed - 1.0 gms/bhp-hr;
- c. CO at rated bhp and operating at rated speed - 4.0 gms/bhp-hr;
- d. At operating conditions less than rated capacity, internal combustion engines shall, on a pounds-per-hour basis, emit no more than they emit at rated bhp and rated speed.

e. Visible emissions in excess of the following limitations:

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

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

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

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

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4233]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What emission standards must I meet if I am an owner or operator of a stationary SI internal combustion engine?**

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

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

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

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

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

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

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

III. MONITORING REQUIREMENTS.**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

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

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

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

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

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

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

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

EPA in electronic form to the following e-mail address: R3_APD_Permits@epa.gov.

or

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

**SECTION D. Source Level Requirements**

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

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

VI. WORK PRACTICE REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

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

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

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

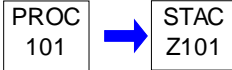
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**SECTION D. Source Level Requirements**

Source ID: 101

Source Name: FUGITIVE VOC EMISSIONS FROM VALVES AND FLANGES

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

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

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

III. MONITORING REQUIREMENTS.

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

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

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

V. REPORTING REQUIREMENTS.

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

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

If any leak is detected, the permittee shall repair the leak as expeditiously as practicable, but no later than fifteen (15) days after the leak is detected, except as provided in 40 CFR § 60.482-9.

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

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

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

**SECTION E. Source Group Restrictions.**

Group Name: 1

Group Description: Process Units 1

Sources included in this group

ID	Name
031	#1 COOPER-BESSEMER GMWC-10 COMPRESSOR
032	#2 COOPER-BESSEMER GMWC-10 COMPRESSOR
033	#3 COOPER-BESSEMER GMWC-10 COMPRESSOR
034	#4 COOPER-BESSEMER 10V-250 COMPRESSOR
035	#5 COOPER-BESSEMER 10V-250 COMPRESSOR
038	#6 SOLAR MARS GAS TURBINE
039	#7 SOLAR MARS 100 GAS TURBINE

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this source in excess of .04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

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

Fuel Restriction(s).

003 [25 Pa. Code §127.512]

Operating permit terms and conditions.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

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

V. REPORTING REQUIREMENTS.

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

**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).

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: 2

Group Description: Process Units 2

Sources included in this group

ID	Name
031	#1 COOPER-BESSEMER GMWC-10 COMPRESSOR
032	#2 COOPER-BESSEMER GMWC-10 COMPRESSOR
033	#3 COOPER-BESSEMER GMWC-10 COMPRESSOR
034	#4 COOPER-BESSEMER 10V-250 COMPRESSOR
035	#5 COOPER-BESSEMER 10V-250 COMPRESSOR

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

[Authority for this condition is also derived from 25 Pa. Code, Section 129.92.]

The emission rate for NO_x, for each individual source, shall be limited to 30.0 pounds per hour and shall never exceed 131.0 tons per year calculated on a 12-month rolling sum.

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6600]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of**

(a) If you own or operate an existing, new, or reconstructed spark ignition 4 stroke rich burn (4SRB) stationary RICE located at a major source of HAP emissions, you must comply with the emission limitations in Table 1a of this subpart and the operating limitations in Table 1b of this subpart which apply to you.

(b) If you own or operate a new or reconstructed 2SLB or 4SLB stationary RICE or a new or reconstructed CI stationary RICE located at a major source of HAP emissions, you must comply with the emission limitations in Table 2a of this subpart and the operating limitations in Table 2b of this subpart which apply to you.

(c) If you own or operate: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, or an existing CI stationary RICE; a stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis; an emergency stationary RICE; or a limited use stationary RICE, you do not need to comply with the emission limitations in Tables 1a and 2a of this subpart or operating limitations in Tables 1b and 2b of this subpart.

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

[Authority for this condition is also derived from 25 Pa. Code, Section 129.92.]

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

The company shall perform a stack test, on the sources listed in this group, every five (5) years. The stack test shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection to show compliance with the NO_x emission limit. The stack test shall be performed while the sources are operating at their maximum rated capacity.

III. MONITORING REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.****IV. RECORDKEEPING REQUIREMENTS.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The company shall maintain all air pollution control systems performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment in this source group. All records shall be maintained in accordance with General Title V Requirement Condition #024. The company shall maintain records pertaining to the operation and maintenance of the Low Emission Combustion (LEC) Technology.

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

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

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

The company shall maintain records of the NOx emission testing that is required to be performed on an annual basis using a portable gas analyzer.

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

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The source shall be operated with Low Emission Combustion (LEC) Technology. The source shall also be operated and maintained in accordance with good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: 3

Group Description: Presumptive RACT II

Sources included in this group

ID	Name
031	#1 COOPER-BESSEMER GMWC-10 COMPRESSOR
032	#2 COOPER-BESSEMER GMWC-10 COMPRESSOR
033	#3 COOPER-BESSEMER GMWC-10 COMPRESSOR
034	#4 COOPER-BESSEMER 10V-250 COMPRESSOR
035	#5 COOPER-BESSEMER 10V-250 COMPRESSOR
038	#6 SOLAR MARS GAS TURBINE
042	WAUKESHA EMERGENCY GENERATOR

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

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

For Source ID 031, 032, 033, 034, and 035:

Emission limits are as follows for a lean burn stationary internal combustion engine with a rating equal to or greater than 500 bhp fired with:

(A) Natural gas or a noncommercial gaseous fuel, 3.0 grams NO_x/bhp-hr.

(B) Natural gas or a noncommercial gaseous fuel, liquid fuel or dual-fuel, 1.0 gram VOC/bhp-hr excluding formaldehyde.

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

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

For Source ID 038:

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

(A) Natural gas or a noncommercial gaseous fuel, 42 ppmvd NO_x @ 15% oxygen.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.**# 003 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

**SECTION E. Source Group Restrictions.**

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

For Source ID 031, 032, 033, 034, 035, and 038:

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

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.512]

Operating permit terms and conditions.

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

For Source ID 041, 042, and 050:

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this permit.

**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 1/28/2020.
- (b) This permit is a renewal of Operating Permit No. 40-00002.
- (c) This is a Title V Operating Permit facility.
- (d) Plan Approvals include:
 - 40-329-001 issued 12/18/07
 - 40-328-008 issued 3/11/13
 - 40-00002A issued 11/3/14
- (e) Requests for Determination (RFDs) include:
 - 40-0811, 40-0843, 40-0915, 40-0916, 40-0917, and 40-0918 for temporary maintenance venting
 - 40-1004 for updates to emergency generator emission limits

[Note: All permit conditions citing 25 Pa. Code 129.91 - 129.100 are RACT I and II requirements which remain in the permit]



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