



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM**

TITLE V/STATE OPERATING PERMIT

| | |
|--|------------------------------------|
| Issue Date: December 4, 2018 | Effective Date: September 12, 2023 |
| Revision Date: September 12, 2023 | Expiration Date: January 31, 2024 |
| Revision Type: Modification, Significant | |

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: 05-05006

Federal Tax Id - Plant Code: 31-0802435-4

Owner Information

Name: COLUMBIA GAS TRANS LLC
Mailing Address: 455 RACETRACK RD
WASHINGTON, PA 15301-8910

Plant Information

Plant: COLUMBIA GAS TRANS LLC/ARTEMAS COMP STA
Location: 05 Bedford County 05921 Mann Township
SIC Code: 4922 Trans. & Utilities - Natural Gas Transmission

Responsible Official

Name: STEPHEN CARROLL
Title: OPERATIONS MGR
Phone: (717) 452 - 5028 Email: Stephen_Carroll@tcenergy.com

Permit Contact Person

Name: KAYLA LEDERGERBER
Title: ENVIRONMENTAL ANALYST
Phone: (724) 223 - 2519 Email: kayla_ledergerber@tcenergy.com

[Signature] _____
WILLIAM R. WEAVER, SOUTHCENTRAL REGION AIR PROGRAM MANAGER



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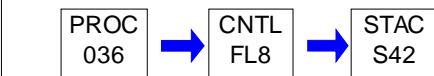
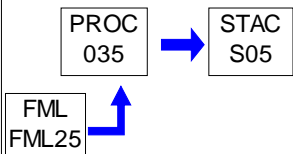
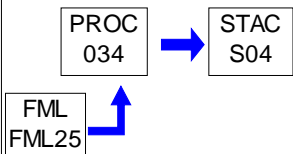
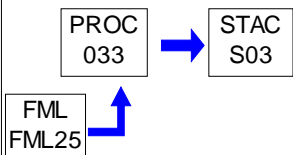
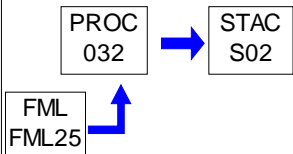
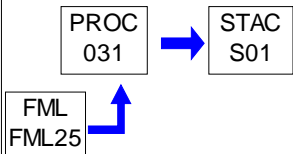
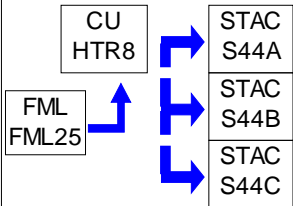
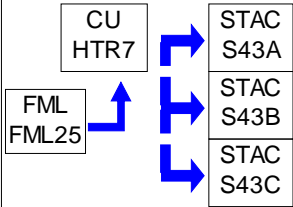
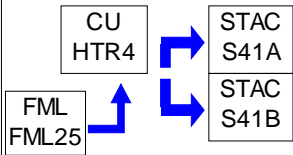
**SECTION A. Site Inventory List**

| Source ID | Source Name | Capacity/Throughput | | Fuel/Material |
|-----------|--|---------------------|----------|-----------------|
| HTR4 | STORAGE HEATER NO. 3 - HANOVER | 5.000 | MMBTU/HR | |
| | | 5.000 | MCF/HR | Natural Gas |
| HTR7 | STORAGE HEATER NO. 4 | 15.300 | MMBTU/HR | |
| | | 15.300 | MCF/HR | Natural Gas |
| HTR8 | STORAGE HEATER NO. 5 | 15.300 | MMBTU/HR | |
| | | 15.300 | MCF/HR | Natural Gas |
| 031 | 2000 BHP, DRESSER CLARK TLA-6, UNIT 1, NO. 07201, SN 73778 | 20.832 | MMBTU/HR | |
| | | 20.832 | MCF/HR | Natural Gas |
| 032 | 2000 BHP, DRESSER CLARK TLA6, UNIT 2, NO. 07202, SN 73777 | 20.832 | MMBTU/HR | |
| | | 20.832 | MCF/HR | Natural Gas |
| 033 | 2728 BHP,SOLAR TURBINE T1001S2, UNIT 1, 07203, SN 0486S21 | 18.560 | MMBTU/HR | |
| | | 18.560 | MCF/HR | Natural Gas |
| 034 | 2728 BHP,SOLAR TURBINE T1001S2, UNIT 2, 07204, SN 0650S21 | 18.560 | MMBTU/HR | |
| | | 18.560 | MCF/HR | Natural Gas |
| 035 | 1340 BHP, SOLAR SATURN T1302 TURBINE #3, NO 07205 SN 0914S21 | 19.500 | MCF/HR | Natural Gas |
| 036 | DEHYDRATION UNIT 1 | 16.667 | MMCF/HR | WET NATURAL GAS |
| 037 | DEHYDRATION UNIT 2 | 16.667 | MMCF/HR | WET NATURAL GAS |
| 041 | AREA FUGITIVE EMISSIONS | | | |
| G02 | EMERGENCY ENGINE (WAUKESHA VGF18GL) | 3.000 | MMBTU/HR | |
| | | 3.000 | MCF/HR | Natural Gas |
| FL8 | DEHY #1 AND #2 FLARE | | | |
| FML25 | NATURAL GAS PIPELINE | | | |
| S01 | DRESSER CLARK UNIT 1 | | | |
| S02 | DRESSER CLARK UNIT 2 | | | |
| S03 | SOLAR TURBINE UNIT 1 | | | |
| S04 | SOLAR TURBINE UNIT 2 | | | |
| S05 | SOLAR TURBINE UNIT 3 | | | |
| S41A | SOURCE HTR4 STACK | | | |
| S41B | SOURCE HTR4 STACK | | | |
| S42 | DEHY #1 AND #2 FLARE STACK | | | |
| S43A | SOURCE HTR7 STACK | | | |
| S43B | SOURCE HTR7 STACK | | | |
| S43C | SOURCE HTR7 STACK | | | |
| S44A | SOURCE HTR8 STACK | | | |
| S44B | SOURCE HTR8 STACK | | | |
| S44C | SOURCE HTR8 STACK | | | |
| SG02 | SOURCE G02 STACK | | | |
| Z041 | STACK, SOURCE ID 041 | | | |

PERMIT MAPS

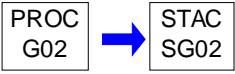
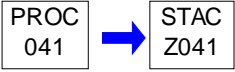
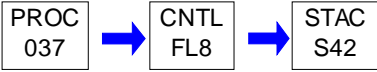


PERMIT MAPS





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 & 127.704(b)]**Permit Renewal**

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

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

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

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

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

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

- (1) The Department determines that no other change in the permit is necessary;
- (2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,
- (3) A compliance review form has been submitted to the Department and the permit transfer has been approved by

**SECTION B. General Title V Requirements**

the Department.

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

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

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

- (1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;
- (2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;
- (3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;
- (4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

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

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

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

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

- (1) Enforcement action
- (2) Permit termination, revocation and reissuance or modification
- (3) Denial of a permit renewal application

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

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

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

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

**SECTION B. General Title V Requirements****#010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]****Duty to Provide Information**

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

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

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

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

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

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

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

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

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

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

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

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

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

#013 [25 Pa. Code § 127.522(a)]**Operating Permit Application Review by the EPA**

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

R3_Air_Apps_and_Notices@epa.gov

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

**SECTION B. General Title V Requirements****#014 [25 Pa. Code § 127.541]****Significant Operating Permit Modifications**

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

(1) Eight thousand dollars (\$8,000) for calendar years 2021—2025.

(2) Ten thousand dollars (\$10,000) for calendar years 2026—2030.

(3) Twelve thousand five hundred dollars (\$12,500) for the calendar years beginning with 2031.

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

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

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

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

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

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

(3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the

**SECTION B. General Title V Requirements**

phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

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

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

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

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

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

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

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

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

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

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

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

#024 [25 Pa. Code §§ 127.511 & 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.

**SECTION B. General Title V Requirements**

(5) The results of the analyses.

(6) The operating conditions as existing at the time of sampling or measurement.

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

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

#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.

**SECTION B. General Title V Requirements****#027 [25 Pa. Code § 127.3]****Operational Flexibility**

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

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

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

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

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

- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
 - (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
 - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

(1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The permittee shall not allow the emission into the outdoor atmosphere of a fugitive air contaminant from a source other than the following:

- (a) Construction or demolition of buildings or structures.
- (b) Grading, paving, and maintenance of roads and streets.
- (c) 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.
- (d) Clearing of land.
- (e) Stockpiling of materials.
- (f) Open burning of clearing and grubbing wastes (trees, shrubs and other native vegetation which are cleared from land during or prior to the process of construction; does not include demolition wastes and dirt-laden roots).
- (g) Sources and classes of sources other than those identified in (a)-(f), above, for which the permittee has obtained a determination from the Department, in accordance with 25 Pa. Code §123.1(b), that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (1) The emissions are of minor significance with respect to causing air pollution; and
 - (2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

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

The permittee shall not allow the emission of fugitive particulate matter into the outdoor atmosphere from a source specified in Section C, Condition #001(a)-(g), if the emissions are visible at the point the emissions pass outside the permittee's property.

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

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

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

The permittee shall not allow the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

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

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

The emission limitations of Section C, Condition #004, shall not apply when:

- (a) The presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (b) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (c) The emission results from sources specified in Section C, Condition #001(a)-(g).

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

The permittee shall limit the facility's annual emissions to less than the following thresholds during any consecutive 12-month period:

- (a) 10 tons of any individual hazardous air pollutant (HAP).
- (b) 25 tons of aggregate HAPs.

007 [25 Pa. Code §129.14]**Open burning operations**

(a) The permittee shall not allow the open burning of material on the permittee's property in a manner such that:

- (1) The emissions are visible, at any time, at the point such emissions pass outside the permittee's property.
- (2) Malodorous air contaminants from the open burning are detectable outside the permittee's property.
- (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) The requirements of part (a), above, do not apply when the open burning operations result from:

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

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

II. TESTING REQUIREMENTS.**# 008 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The Department reserves the right to require exhaust stack testing of the sources referenced in this operating permit to measure emissions for purposes including verification of operating permit condition compliance and estimation of annual air emissions.

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

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on any source. In the request, the Department will set forth 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.**

(a) As specified in 25 Pa. Code Section 139.11(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

**SECTION C. Site Level Requirements**

requested by the Department.

(b) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results 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, at a minimum, all of the following:

- (1) A thorough source description, including a description of any air cleaning devices and the flue.
- (2) Process conditions, for example, the fuel usage rate, power output, exhaust temperature, and other conditions which may affect emissions from the process.
- (3) The location of the sampling ports.
- (4) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO₂, O₂, and N₂), static and barometric pressures.
- (5) 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.
- (6) Laboratory procedures and results.
- (7) Calculated results.

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

The permittee shall measure visible emissions (referenced in Section C, Conditions #004, #005, and #012) using either of the following:

- (a) A device approved by the Department and maintained to provide accurate opacity measurements (e.g., Continuous Opacity Monitor).
- (b) Observers trained and certified in EPA Reference Method 9 to measure plume opacity with the naked eye; or with the aid of any device(s) approved by the Department.

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

The permittee shall conduct a weekly inspection around the plant periphery during daylight hours when the plant is in production to detect visible emissions, fugitive particulate matter emissions, and malodorous air contaminants. Weekly inspections are necessary to determine:

- (a) The presence of visible emissions as stated in Section C, Condition #004. Visible emissions may be measured according to the methods specified in Section C, Condition #011. Alternately, plant personnel who observe visible emissions may report the incidence of visible emissions to the Department within two (2) hours of the incident and make arrangements for a certified observer to measure the visible emissions.
- (b) The presence of fugitive particulate matter emissions beyond the plant property boundaries, as stated in Section C, Condition #002.
- (c) The presence of malodorous air contaminants beyond the plant property boundaries, as stated in Section C, Condition #003.

If the facility becomes unmanned during the term of this operating permit, the company shall notify the Department, and the monitoring shall be conducted once per month effective from the date of becoming an unmanned facility.

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

(a) The permittee shall monitor and record the following parameters:

- (1) The hours of operation of all sources both on a monthly and calendar year basis.
- (2) Amount of fuel(s) consumed on both a monthly and calendar year basis, except for the Auxiliary Generator, Dehydration Units and Storage Heaters, which may be grouped together.

The Department reserves the right to add to the list of operating parameters monitored.

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

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

(a) The permittee shall maintain records of the weekly inspections referenced in Section C, Condition #012. The records shall include, at a minimum, the following information:

- (1) The name of the company representative monitoring each inspection.
- (2) The date and time of each inspection.
- (3) The wind direction during each inspection.
- (4) A description of the visible emissions, fugitive particulate matter emissions (beyond the plant property boundaries), and malodorous air contaminants (beyond the plant property boundaries) observed, if any, and actions taken to mitigate them. If no visible emissions or fugitive particulate matter emissions or malodors are observed, then document that none were observed.

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

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

(a) The permittee shall calculate the monthly air emissions from the facility using AP-42 emission factors, manufacturer-supplied emission factors, material balance, performance (stack) test data, CEMS data, or other method(s) acceptable to the Department. The permittee shall maintain records of the monthly air emissions.

(b) The permittee shall calculate the cumulative facility HAP (individual and aggregate) emissions for each consecutive 12-month period. The permittee shall maintain records of the cumulative facility HAP (individual and aggregate) emissions for each consecutive 12-month period in order to demonstrate compliance with Section C, Condition #006.

(c) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

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

(a) Pursuant to 25 Pa. Code § 139.3 at least 90 calendar days prior to commencing an emissions testing program, unless otherwise approved in writing by DEP, a test protocol shall be submitted to the Department for review and approval. Unless otherwise approved in writing by DEP, the permittee shall not conduct the test that is the subject of the protocol, until the protocol has been approved by DEP.

(b) Pursuant to 25 Pa. Code § 139.3 at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the appropriate Regional Office. Notification shall also be

**SECTION C. Site Level Requirements**

sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) Pursuant to 25 Pa. Code Section 139.53(a)(3) within 15 calendar days after completion of the on-site testing portion of an emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Division of Source Testing and Monitoring and the appropriate Regional Office indicating the completion date of the on-site testing.

(d) Pursuant to 40 CFR Part 60.8(a), 40 CFR Part 61.13(f) and 40 CFR Part 63.7(g) a complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emission test program. For those tests being conducted pursuant to 40 CFR Part 61, a complete test report shall be submitted within 31 days after completion of the test

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

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

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

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

(h) Pursuant to 25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3) all submittals, besides notifications, shall be accomplished through PSIMS*Online available through <https://www.depgreenport.state.pa.us/ecomm/Login.jsp> when it becomes available. If internet submittal cannot be accomplished, one paper copy and one digital copy of each submittal shall be made to each of the following:

Regional Office:

Paper copy: Program Manager, Air Quality Program, PA DEP Southcentral Regional Office, 909 Elmerton Avenue, Harrisburg, PA 17110

Digital copy: RA-epscstacktesting@pa.gov

Bureau of Air Quality:

Paper copy: PA DEP, Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468

Digital copy: RA-epstacktesting@pa.gov

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

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

The permittee shall report malfunctions to the Department. A malfunction is any sudden, infrequent and not reasonably preventable failure of air pollution control or monitoring equipment, process equipment, or a process to operate in a normal or usual manner that may result in an increase in air emissions. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. Malfunctions shall be reported as follows:

**SECTION C. Site Level Requirements**

(a) Any malfunction which poses an imminent danger to the public health, safety, welfare, and environment, shall be immediately reported to the Department by telephone. The telephone report of such malfunctions shall occur no later than two (2) hours after the incident. The permittee shall submit a written report of instances of such malfunctions to the Department within three (3) days of the telephone report.

(1) The notice shall describe the following:

- (i) name and location of the facility;
- (ii) nature and cause of the malfunction;
- (iii) time when the malfunction was first observed;
- (iv) expected duration of excess emissions; and
- (v) estimated rate of emissions.

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

(b) Unless otherwise required by this operating permit, any other malfunction that is not subject to the reporting requirements of part (a), above, shall be reported to the Department, in writing, within five (5) days of malfunction discovery.

(c) Malfunctions shall be reported to the Department at the following address:

PA DEP
Altoona District Office
Air Quality Program
3001 Fairway Drive
Altoona, PA 16602

Telephone reports shall be made to the Department's Air Quality Program at 814.946.7290 during normal business hours or to the Department's Emergency Hotline at 866.825.0208 at any time.

018 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

Pursuant to Section C, Category VIII. COMPLIANCE CERTIFICATION below, the permittee shall forward the annual compliance certification report to U.S. EPA electronically, in lieu of a hard copy version, to the following email address: 'R3_APD_Permits@epa.gov'.

019 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

[Additional authority for this permit condition is also derived from RACT Operating Permit No. 05-2006]

The permittee shall report to the Department any modification to the sources listed in the RACT operating permit application (RACT O.P. No. 05-2006) which is expected to increase NOx and/or VOC emissions from the source/facility.

020 [25 Pa. Code §135.3]

Reporting

(a) An annual air emissions report for a given calendar year is due no later than March 1 of the following year, and shall be submitted to the Air Quality District Supervisor, at the following address, unless otherwise specified:

PA DEP
Altoona District Office
Air Quality Program
3001 Fairway Drive
Altoona, PA 16602

(b) The monthly air emissions and calculations referenced in Condition #015 of Section C shall be included in the annual air emissions report.

(c) The monthly and annual fuel usage and operating hours referenced in Condition #013 of Section C shall be included in the annual air emissions report.

**SECTION C. Site Level Requirements**

(d) The permittee may request an extension of time from the Department for the filing of the air emissions report specified in part (a), above, and the Department may grant the extension for reasonable cause.

VI. WORK PRACTICE REQUIREMENTS.**# 021 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne from any source specified in Section C, Condition #001(a)-(g). These actions shall include, but not be limited to, the following:

(a) 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.

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

(c) Paving and maintenance of roadways.

(d) 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.

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

The permittee shall operate and maintain all sources and any air cleaning devices identified in this operating permit in accordance with the manufacturer's recommendations/specifications, as well as in a manner consistent with good operating and air pollution control practices that minimize air emissions.

VII. ADDITIONAL REQUIREMENTS.

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

VIII. COMPLIANCE CERTIFICATION.

The permittee shall submit within thirty days of 01/01/2019 a certificate of compliance with all permit terms and conditions set forth in this Title V permit as required under condition #026 of section B of this permit, and annually thereafter.

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

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



SECTION D. Source Level Requirements

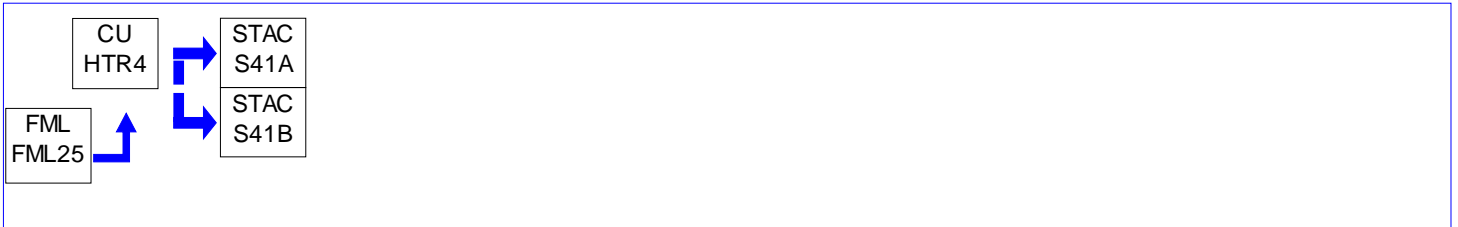
Source ID: HTR4

Source Name: STORAGE HEATER NO. 3 - HANOVER

Source Capacity/Throughput: 5.000 MMBTU/HR

5.000 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 004
011



I. RESTRICTIONS.

Fuel Restriction(s).

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

The permittee shall operate the Source ID HTR4 fuel line heater using natural gas fuel only.

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**

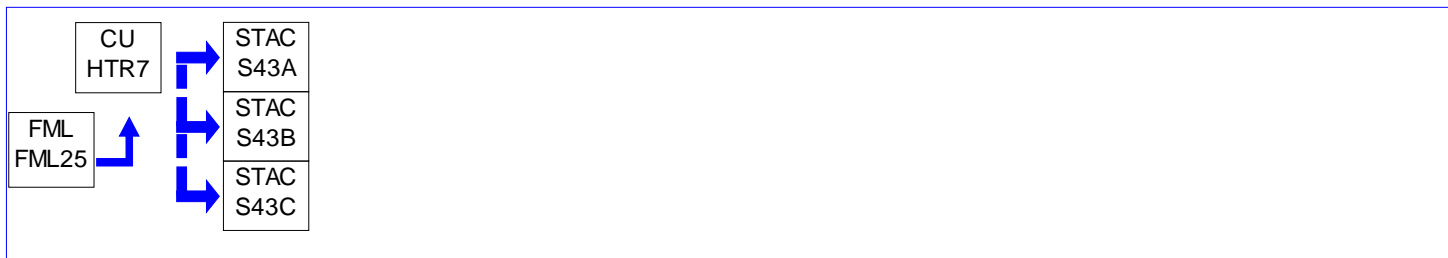
Source ID: HTR7

Source Name: STORAGE HEATER NO. 4

Source Capacity/Throughput: 15.300 MMBTU/HR

15.300 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 004
008
009
011

**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: HTR8

Source Name: STORAGE HEATER NO. 5

Source Capacity/Throughput: 15.300 MMBTU/HR

15.300 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 004
008
009
011



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).

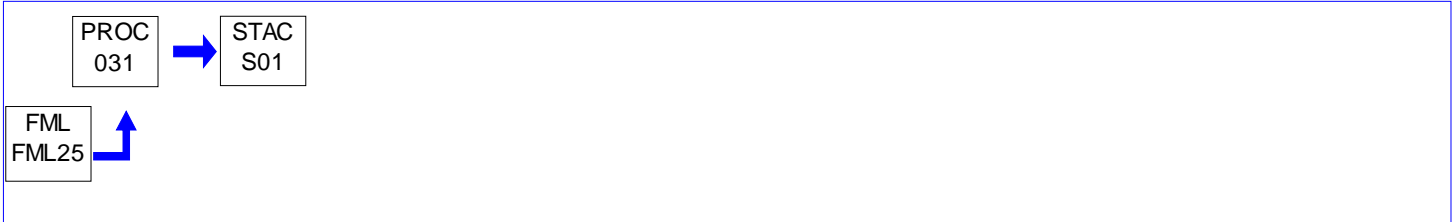
VII. ADDITIONAL REQUIREMENTS.

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: 031 Source Name: 2000 BHP, DRESSER CLARK TLA-6, UNIT 1, NO. 07201, SN 73778

Source Capacity/Throughput: 20.832 MMBTU/HR
20.832 MCF/HR Natural GasConditions for this source occur in the following groups: 001
006
010**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**

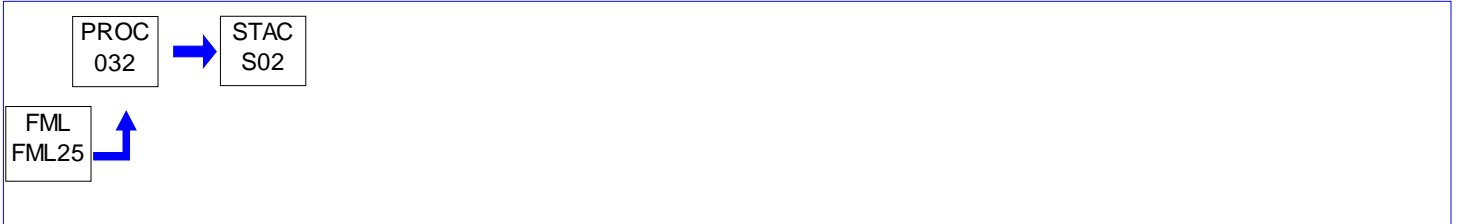
Source ID: 032

Source Name: 2000 BHP, DRESSER CLARK TLA6, UNIT 2, NO. 07202, SN 73777

Source Capacity/Throughput: 20.832 MMBTU/HR

20.832 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 001
006
010

**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**

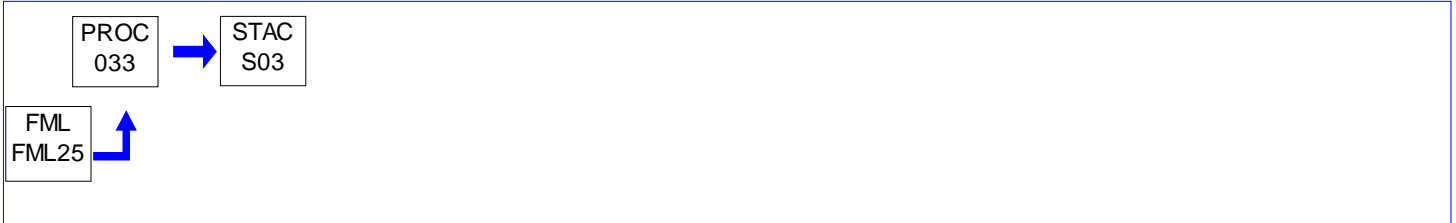
Source ID: 033

Source Name: 2728 BHP,SOLAR TURBINE T1001S2, UNIT 1, 07203, SN 0486S21

Source Capacity/Throughput: 18.560 MMBTU/HR

18.560 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 002
 005
 010
 011

**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: 1340 BHP, SOLAR SATURN T1302 TURBINE #3, NO 07205 SN 0914S21

Source Capacity/Throughput:

19.500 MCF/HR

Natural Gas

Conditions for this source occur in the following groups: 005

010

011

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

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

The permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM) from the Source ID 035 turbine in a manner that the concentration of PM in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §127.1]**Purpose.**

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission of nitrogen oxides (NOx) and carbon monoxide (CO) into the outdoor atmosphere from the Source ID 035 turbine in excess of the following limits:

(a) 100 ppmvd NOx at 15% O₂; and(b) 100 ppmvd CO at 15% O₂.

[Compliance with the requirement(s) specified in part (a) of this streamlined operating permit condition assures compliance with the NOx emission limit specified in 40 CFR §60.332(a)(2)]

Fuel Restriction(s).**# 003 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

The permittee shall operate the Source ID 035 turbine using natural gas fuel only.

II. TESTING REQUIREMENTS.**# 004 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

(a) Between 540 days and 180 days of this operating permit's expiration date, unless otherwise approved by the Department in writing, the permittee shall conduct three (3) runs of the following emissions tests of the Source ID 035 turbine pursuant to Chapter 139 of the rules and regulations of the Department in order to demonstrate compliance with Condition #001, above:

**SECTION D. Source Level Requirements**

(1) EPA Reference Method 7, 7A, 7E or another Method approved by the Department - NO_x emissions; report NO_x emissions in units of g/bhp-hr, lb/hr, and ppmvd (corrected to 15% oxygen on a dry basis); NO_x emissions shall be reported in terms of nitrogen dioxide (NO₂).

(2) EPA Reference Method 10 or another Method approved by the Department - CO emissions; report CO emissions in units of g/bhp-hr, lb/hr, and ppmvd (corrected to 15% oxygen on a dry basis).

(b) The emissions tests referenced in (a), above, shall be performed while the Source ID 035 turbine is operating at maximum capacity or as close to its maximum capacity as the turbine will operate.

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 §127.511]****Monitoring and related recordkeeping and reporting requirements.**

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

(a) The permittee shall maintain records of the monthly usage of each fuel consumed at the Source ID 035 turbine.

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

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

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

(a) The permittee shall calculate the monthly air emissions from the Source ID 035 turbine using AP-42 emission factors, manufacturer-supplied emission factors, mass material balance, performance (stack) test data, or other method(s) acceptable to the Department.

(b) The permittee shall maintain records of the monthly air emissions and calculations referenced in part (a), above, for a minimum of five (5) years. The records shall be made available to the Department upon its request.

007 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

(a) The permittee shall maintain records of the Source ID 035 turbine's monthly hours of operation.

(b) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its 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.**# 008 [25 Pa. Code §127.1]****Purpose.**

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

**SECTION D. Source Level Requirements**

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the Source ID 035 turbine shall be operated and maintained in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION D. Source Level Requirements**

Source ID: 036

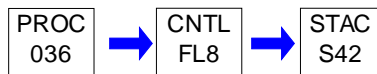
Source Name: DEHYDRATION UNIT 1

Source Capacity/Throughput:

16.667 MMCF/HR

WET NATURAL GAS

Conditions for this source occur in the following groups: 003
012

**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: 037

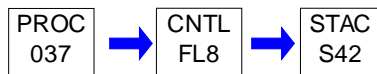
Source Name: DEHYDRATION UNIT 2

Source Capacity/Throughput:

16.667 MMCF/HR

WET NATURAL GAS

Conditions for this source occur in the following groups: 003
012

**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. *****

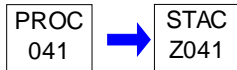
**SECTION D. Source Level Requirements**

Source ID: 041

Source Name: AREA FUGITIVE EMISSIONS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 011

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

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

Actual emissions from the following equipment at the facility shall be limited as follows on a 12-month rolling basis:

(a) VOC emissions shall not exceed 2.7 tons per 12-month rolling period from the group of fugitive VOC emitting components associated with an individual source that has a stack emission. For example, an engine or a turbine would be an individual source and all fugitive VOC emitting components such as flanges, crankcase vents, compressor seals, seal vents, valves and connectors associated with this engine, turbine or dehydrator unit would be collectively considered as a separate VOC emitting source.

(b) Station pigging operations VOC emissions are limited to less than 2.7 tons per 12-month rolling period;

**SECTION D. Source Level Requirements**

- (c) Station blowdown VOC emissions are limited to less than 2.7 tons per 12-month rolling period;
- (d) Pipeline blowdown VOC emissions at the Perulack Station are limited to less than 2.7 tons per 12-month rolling period
- (e) The permittee shall calculate VOC emissions using AP-42 emission factors, EPA accepted estimation methodologies, manufacturer supplied emission factors, mass material balance, performance (stack) test data, or other method(s) acceptable to the Department.
- (f) The permittee shall keep adequate records to demonstrate compliance with the above limits. If total station emissions are less than 2.7 tons per 12-month rolling period, it is sufficient to keep records showing this.
- (g) The permittee shall perform monthly audio, visual, and olfactory (AVO) inspections to ensure the fugitive air contaminant emissions are minimized. Any leak detected during the monthly AVO inspection shall be repaired within 15 calendar days of detection unless facility shutdowns or ordering of replacement parts are necessary for repair of the leaks.
- (h) The permittee shall keep a logbook of the following for the AVO inspections, which logbook shall be kept for 5 years and made available to the Department upon request:
- (1) the date of each inspection,
 - (2) initials or name(s) of the person(s) conducting each inspection,
 - (3) the date each leak is detected,
 - (4) the specific location of the leak,
 - (5) the repair performed to eliminate the leak,
 - (6) the date the leak is repaired,
 - (7) the action/inspection taken to determine that the leak is repaired, and
 - (8) the initials or name(s) of the person(s) repairing the leak.

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

**SECTION D. Source Level Requirements**

Source ID: G02

Source Name: EMERGENCY ENGINE (WAUKESHA VGF18GL)

Source Capacity/Throughput:

3.000 MMBTU/HR

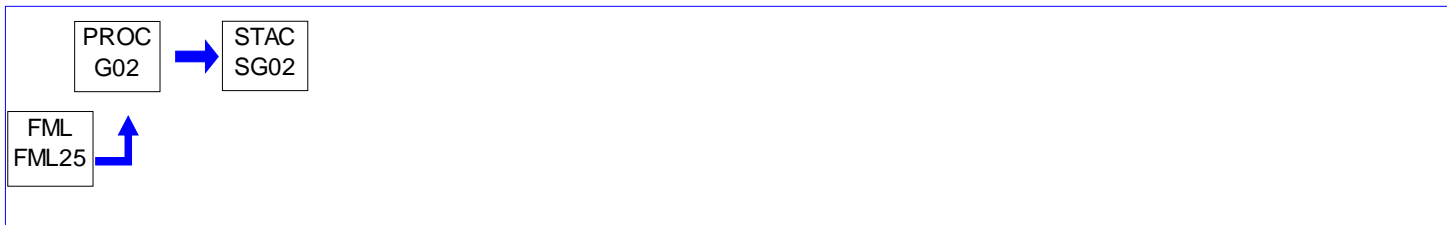
3.000 MCF/HR

Natural Gas

Conditions for this source occur in the following groups: 007

010

011

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM) from Source ID G02 in a manner that the concentration of PM in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

The permittee shall not allow the emission into the outdoor atmosphere of sulfur oxides (SO_x) from Source ID G02 in a manner that the concentration of the SO_x (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 operate Source ID G02 using natural gas fuel only.

Operation Hours Restriction(s).

004 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Source ID G02 shall not operate more than 500 hours during any consecutive 12-month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) 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 §127.511]

Monitoring and related recordkeeping and reporting requirements.



SECTION D. Source Level Requirements

- (a) The permittee shall maintain records of Source ID G02's monthly hours of operation.
- (b) The permittee shall maintain records of Source ID G02's cumulative hours of operation for each consecutive 12-month period. This is necessary to demonstrate compliance with Condition #004, above.
- (c) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its 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.

006 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall operate and maintain Source ID G02 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 E. Source Group Restrictions.**

Group Name: 001

Group Description: RECIPROCATING ENGINES/INTEGRAL COMPRESSORS

Sources included in this group

| ID | Name |
|-----|--|
| 031 | 2000 BHP, DRESSER CLARK TLA-6, UNIT 1, NO. 07201, SN 73778 |
| 032 | 2000 BHP, DRESSER CLARK TLA6, UNIT 2, NO. 07202, SN 73777 |

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

The permittee shall not allow the emission into the outdoor atmosphere of particulate matter from each Group 001 source in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

The permittee shall not allow the emission into the outdoor atmosphere of sulfur oxides from each Group 001 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.

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

[Additional authority for this permit condition is also derived from RACT Operating Permit No. 05-2006]

(a) The permittee shall not allow emissions of oxides of nitrogen (NO_x) from each Group 001 source to exceed 16.5 pounds per hour.

(b) The NO_x emission limit of part (a), above, shall not apply during periods of startup and shutdown of each Group 001 source. Startup and shutdown periods are limited to a maximum duration of one hour per each occurrence.

Fuel Restriction(s).**# 004 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The permittee shall operate each Group 001 source using natural gas fuel only.

II. TESTING REQUIREMENTS.**# 005 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from RACT Operating Permit No. 05-2006]

(a) The permittee shall conduct a performance test for NO_x emissions annually utilizing methodology outlined in 25 Pa. Code Chapter 139 and the Department's Source Testing Manual, or by other means approved by the Department. A portable analyzer may be used for the annual compliance verification except for the performance test conducted prior to Title V operating permit renewal application submittal.

(b) The NO_x emission results of each performance test shall be submitted to the Department for review within 60 calendar days of testing completion, and shall be reported in the following units:

- (1) Concentration measured in parts per million (ppm), ppmvd and ppmvd corrected to 15 percent oxygen;
- (2) Grams per horsepower-hour (g/hp-hr) and pounds per hour (lb/hr); and
- (3) Pound per million BTU of heat input (lb/mmBTU).

**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).

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

[Additional authority for parts (a)(2), (a)(3), and (b) of this permit condition are also derived from RACT Operating Permit No. 05-2006]

(a) The permittee shall maintain comprehensive and accurate records of the following information for each Group 001 source:

- (1) Operating hours on both a monthly and a calendar year basis.
- (2) Amount of fuel consumed on both a monthly and a calendar year basis.
- (3) Maintenance and repairs.

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

007 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

(a) The permittee shall maintain records of each startup and shutdown period occurrence and duration in order to demonstrate compliance with Section E (Group 001), Condition #003(b), above.

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

V. REPORTING REQUIREMENTS.**# 008 [25 Pa. Code §135.3]****Reporting**

[Additional authority for this permit condition is also derived from RACT Operating Permit No. 05-2006]

The permittee shall include the annual operating hours and fuel usage for each Group 001 source in the annual air emissions report referenced in Section C, Condition #020(a).

VI. WORK PRACTICE REQUIREMENTS.**# 009 [25 Pa. Code §127.444]****Compliance requirements.**

The permittee shall operate and maintain each Group 001 source in accordance with the manufacturer's specifications or as per the operational manual.

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: 002

Group Description: GAS TURBINES/CENTRIFUGAL COMPRESSORS

Sources included in this group

| ID | Name |
|-----|---|
| 033 | 2728 BHP,SOLAR TURBINE T1001S2, UNIT 1, 07203, SN 0486S21 |
| 034 | 2728 BHP,SOLAR TURBINE T1001S2, UNIT 2, 07204, SN 0650S21 |

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

The permittee shall not allow the emission into the outdoor atmosphere of particulate matter from each Group 002 source in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

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

[Additional authority for this permit condition is also derived from RACT Operating Permit No. 05-2006]

(a) The permittee shall not allow emissions of oxides of nitrogen (NOx) from each Group 002 source to exceed 110 ppmvd (corrected to 15 percent oxygen).

(b) The NOx emission limit of part (a), above, shall not apply during periods of startup and shutdown of each Group 002 source. Startup and shutdown periods are limited to a maximum duration of one hour per each occurrence.

[Compliance with the requirement(s) specified in part (a) of this streamlined operating permit condition assures compliance with the NOx emission limit specified in 40 CFR §60.332(a)(2), except during periods of startup and shutdown]

Fuel Restriction(s).**# 003 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The permittee shall operate each Group 002 source using natural gas fuel only.

II. TESTING REQUIREMENTS.**# 004 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from RACT Operating Permit No. 05-2006]

(a) The permittee shall conduct a performance test for NOx emissions annually utilizing methodology outlined in 25 Pa. Code Chapter 139 and the Department's Source Testing Manual, or by other means approved by the Department. A portable analyzer may be used for the annual compliance verification except for the performance test conducted prior to Title V operating permit renewal application submittal.

(b) The NOx emission results of each performance test shall be submitted to the Department for review within 60 calendar days of testing completion, and shall be reported in the following units:

(1) Concentration measured in parts per million (ppm), ppmvd and ppmvd corrected to 15 percent oxygen;

(2) Grams per horsepower-hour (g/hp-hr) and pounds per hour (lb/hr); and

(3) Pound per million BTU of heat input (lb/mmBTU).

**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).

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

[Additional authority for parts (a)(2), (a)(3), and (b) of this permit condition are also derived from RACT Operating Permit No. 05-2006]

(a) The permittee shall maintain comprehensive and accurate records of the following information for each Group 002 source:

- (1) Operating hours on both a monthly and a calendar year basis.
- (2) Amount of fuel consumed on both a monthly and a calendar year basis.
- (3) Maintenance and repairs.

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

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

(a) The permittee shall maintain records of each startup and shutdown period occurrence and duration in order to demonstrate compliance with Section E (Group 002), Condition #002(b), above.

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

V. REPORTING REQUIREMENTS.**# 007 [25 Pa. Code §135.3]****Reporting**

[Additional authority for this permit condition is also derived from RACT Operating Permit No. 05-2006]

The permittee shall include the annual operating hours and fuel usage for each Group 002 source in the annual air emissions report referenced in Section C, Condition #020(a).

VI. WORK PRACTICE REQUIREMENTS.**# 008 [25 Pa. Code §129.93]****Presumptive RACT emission limitations**

[Additional authority for this permit condition is also derived from RACT Operating Permit No. 05-2006]

The permittee shall operate and maintain each Group 002 source in accordance with the manufacturer's specifications.

[25 Pa. Code §129.93(c)(2)]

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: 003

Group Description: GLYCOL DEHYDRATION UNITS

Sources included in this group

| ID | Name |
|-----|--------------------|
| 036 | DEHYDRATION UNIT 1 |
| 037 | DEHYDRATION UNIT 2 |

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

The permittee shall limit the natural gas throughput of each of the Group 003 glycol dehydrators to 400 MMscf/day. The permittee shall limit the aggregate natural gas throughput of the Group 003 glycol dehydrators to 400 MMscf/day.

II. TESTING REQUIREMENTS.**# 002 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006B]

The Department reserves the right to require stack testing for visible emissions as per EPA Method 22, and the destruction efficiency using test methods as approved by the Department.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: 004

Group Description: FUEL LINE HEATERS

Sources included in this group

| ID | Name |
|------|--------------------------------|
| HTR4 | STORAGE HEATER NO. 3 - HANOVER |
| HTR7 | STORAGE HEATER NO. 4 |
| HTR8 | STORAGE HEATER NO. 5 |

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

The permittee shall not allow the emission of particulate matter into the outdoor atmosphere from each Group 004 fuel line heater in excess of 0.4 pound per million BTU of heat input.

002 [25 Pa. Code §123.22]**Combustion units**

The permittee shall not allow the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each Group 004 fuel line heater in excess of four (4) pounds per million BTU of heat input over any one (1) hour period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 003 [25 Pa. Code §127.444]****Compliance requirements.**

The permittee shall operate and maintain each Group 004 fuel line heater, for heating a water medium (water and/or glycol) which indirectly warms up natural gas flowing out of the reservoir, in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: 005

Group Description: SOURCES SUBJECT TO NSPS SUBPART GG

Sources included in this group

| ID | Name |
|-----|--|
| 033 | 2728 BHP,SOLAR TURBINE T1001S2, UNIT 1, 07203, SN 0486S21 |
| 034 | 2728 BHP,SOLAR TURBINE T1001S2, UNIT 2, 07204, SN 0650S21 |
| 035 | 1340 BHP, SOLAR SATURN T1302 TURBINE #3, NO 07205 SN 0914S21 |

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.332]****Subpart GG - Standards of Performance for Stationary Gas Turbines
Standard for nitrogen oxides.**

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

(a) On and after the date on which the performance test required by 40 CFR §60.8 is completed, every owner or operator subject to the provisions of 40 CFR Part 60, Subpart GG, as specified in 40 CFR §60.332(b), (c), and (d), below, shall comply with one of the following, except as provided in 40 CFR §60.332(e), (f), (g), (h), (i), (j), (k), and (l), below.

(1) [N/A - PURSUANT TO 40 CFR §60.332(b)]

(2) No owner or operator subject to the provisions of 40 CFR Part 60, Subpart GG, shall cause to be discharged into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of:

$$\text{STD} = 0.0150(14.4/Y) + F$$

where:

STD = allowable ISO corrected (if required as given in 40 CFR §60.335(b)(1)) NO_x emission concentration (percent by volume at 15 percent oxygen and on a dry basis),

Y = manufacturer's rated heat rate at manufacturer's rated peak load (kilojoules per watt hour), or actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour, and

F = NO_x emission allowance for fuel-bound nitrogen as defined in 40 CFR §60.332(a)(4), below.

[SOURCE IDs 033 AND 034 ARE EACH SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION E (GROUP 2), CONDITION #002, EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN; SOURCE ID 035 IS SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION D (SOURCE ID 035), CONDITION #002(a)]

(3) [N/A - SOURCE IDs 033 AND 034 ARE EACH SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION E (GROUP 2), CONDITION #002, EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN; SOURCE ID 035 IS SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION D (SOURCE ID 035), CONDITION #002(a); THIS ASSURES COMPLIANCE WITH 40 CFR §60.332(a)(2) FOR ALL THREE (3) GROUP 005 TURBINES EXCEPT FOR SOURCE IDs 033 AND 034 DURING PERIODS OF STARTUP AND SHUTDOWN ; FUEL BOUND NITROGEN ALLOWANCE IS NOT BEING CLAIMED]

(4) [N/A - SOURCE IDs 033 AND 034 ARE EACH SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION E (GROUP 2), CONDITION #002, EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN; SOURCE ID 035 IS SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION D (SOURCE ID 035), CONDITION #002(a); THIS ASSURES COMPLIANCE WITH 40 CFR §60.332(a)(2) FOR ALL THREE (3) GROUP 005 TURBINES EXCEPT FOR SOURCE IDs 033 AND 034 DURING PERIODS OF STARTUP AND SHUTDOWN; FUEL BOUND NITROGEN ALLOWANCE IS NOT BEING CLAIMED]

(b) [N/A - THE GROUP 005 TURBINES EACH DO NOT SATISFY THE DEFINITION OF ELECTRIC UTILITY STATIONARY

**SECTION E. Source Group Restrictions.**

GAS TURBINE OF 40 CFR §60.331(q); ALSO, EACH TURBINE'S HEAT INPUT AT PEAK LOAD IS LESS THAN OR EQUAL TO 100 mmBTU/hr BASED ON THE LOWER HEATING VALUE OF THE FUEL FIRED]

(c) Stationary gas turbines with a heat input at peak load equal to or greater than 10.7 gigajoules per hour (10 mmBTU/hr) but less than or equal to 107.2 gigajoules per hour (100 mmBTU/hr) based on the lower heating value of the fuel fired, shall comply with the provisions of 40 CFR §60.332(a)(2), above.

(d) Stationary gas turbines with a manufacturer's rated base load at ISO conditions of 30 megawatts or less except as provided in 40 CFR §60.332(b) shall comply with 40 CFR §60.332(a)(2), above.

(e) [N/A - THE GROUP 005 TURBINES EACH COMMENCED CONSTRUCTION ON OR AFTER OCTOBER 3, 1982]

(f) [N/A - THE GROUP 005 TURBINES EACH DO NOT USE WATER OR STEAM INJECTION FOR NO_x EMISSIONS CONTROL]

(g) [N/A - THE GROUP 005 TURBINES ARE EACH NOT EMERGENCY GAS TURBINES OR MILITARY GAS TURBINES OR FIRE FIGHTING GAS TURBINES]

(h) [N/A - THE GROUP 005 TURBINES ARE EACH NOT USED FOR RESEARCH AND DEVELOPMENT]

(i) Exemptions from the requirements of 40 CFR §60.332(a), above, will be granted on a case-by-case basis as determined by the Administrator in specific geographical areas where mandatory water restrictions are required by governmental agencies because of drought conditions. These exemptions will be allowed only while the mandatory water restrictions are in effect.

(j) [N/A - THE GROUP 005 TURBINES EACH HAVE A HEAT INPUT AT PEAK LOAD LESS THAN OR EQUAL TO 107.2 GIGAJOULES PER HOUR (100 mmBTU/hr)]

(k) Stationary gas turbines with a heat input greater than or equal to 10.7 gigajoules per hour (10 mmBTU/hr) when fired with natural gas are exempt from 40 CFR §60.332(a)(2), above, when being fired with an emergency fuel.

(l) [N/A - THE GROUP 005 TURBINES EACH DO NOT SATISFY THE DEFINITION OF REGENERATIVE CYCLE GAS TURBINE OF 40 CFR §60.331(c)]

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.**

[Additional authority for this permit condition is also derived from Operating Permit No. 05-328-001 and Plan Approval No. 05-05006C]

On and after the date on which the performance test required to be conducted by 40 CFR §60.8 is completed, every owner or operator subject to the provision of 40 CFR Part 60, Subpart GG, shall comply with one or the other of the following conditions:

(a) No owner or operator subject to the provisions of 40 CFR Part 60, Subpart GG, shall cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen and on a dry basis.

(b) No owner or operator subject to the provisions of 40 CFR Part 60, Subpart GG, shall burn in any stationary gas turbine any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw).

[Compliance with the requirement(s) specified in this streamlined operating permit condition assures compliance with the SO₂ emission limit specified in 25 Pa. Code Section 123.21]

**SECTION E. Source Group Restrictions.****II. TESTING REQUIREMENTS.****# 003 [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.**

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

(a) The owner or operator shall conduct the performance tests required in 40 CFR §60.8 using either

(1) EPA Method 20,

(2) ASTM D6522-00 (incorporated by reference, see 40 CFR §60.17), or

(3) EPA Method 7E and either EPA Method 3 or 3A in Appendix A to 40 CFR Part 60, to determine NO_x and diluent concentration.

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

(5) Notwithstanding 40 CFR §60.335(a)(4), above, the owner or operator may test at fewer points than are specified in Method 1 or Method 20 if the following conditions are met:

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

(A) [Reserved]

(B) The procedures specified in Section 6.5.6.1(a) through (e) in Appendix A to 40 CFR Part 75.

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

(A) If each of the individual traverse point NO_x concentrations, normalized to 15 percent O₂, is within ± 10 percent of the mean normalized concentration for all traverse points, then you may use 3 points (located either 16.7, 50.0, and 83.3 percent of the way across the stack or duct, or, for circular stacks or ducts greater than 2.4 meters (7.8 feet) in diameter, at 0.4, 1.2, and 2.0 meters from the wall). The 3 points shall be located along the measurement line that exhibited the highest average normalized NO_x concentration during the stratification test; or

(B) If each of the individual traverse point NO_x concentrations, normalized to 15 percent O₂, is within ± 5 percent of the mean normalized concentration for all traverse points, then you may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid.

(6) Other acceptable alternative reference methods and procedures are given in 40 CFR §60.335(c), below.

(b) The owner or operator shall determine compliance with the applicable nitrogen oxides emission limitation in 40 CFR §60.332 and shall meet the performance test requirements of 40 CFR §60.8 as follows:

(1) For each run of the performance test, the mean nitrogen oxides emission concentration (NO_x) corrected to 15 percent O₂ shall be corrected to ISO standard conditions using the following equation. Notwithstanding this requirement, use of the ISO correction equation is optional for: Lean premix stationary combustion turbines; units used in association with heat recovery steam generators (HRSGs) equipped with duct burners; and units equipped with add-on emission control devices:

[SEE REGULATION FOR EQUATION]

(2) The 3-run performance test required by 40 CFR §60.8 must be performed within ± 5 percent at 30, 50, 75, and 90-to-100 percent of peak load or at four evenly-spaced load points in the normal operating range of the gas turbine, including the minimum point in the operating range and 90-to-100 percent of peak load, or at the highest achievable load point if 90-to-100 percent of peak load cannot be physically achieved in practice. If the turbine combusts both oil and gas as primary or

**SECTION E. Source Group Restrictions.**

backup fuels, separate performance testing is required for each fuel. Notwithstanding these requirements, performance testing is not required for any emergency fuel (as defined in 40 CFR §60.331(r)).

(3) [N/A - THE GROUP 005 TURBINES EACH DO NOT SATISFY THE DEFINITION OF COMBINED CYCLE GAS TURBINE OF 40 CFR §60.331(d)]

(4) [N/A - THE TURBINES EACH DO NOT USE WATER OR STEAM INJECTION FOR NO_x EMISSIONS CONTROL]

(5) [N/A - SOURCE IDs 033 AND 034 ARE EACH SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION E (GROUP 2), CONDITION #002, EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN; SOURCE ID 035 IS SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION D (SOURCE ID 035), CONDITION #002(a); THIS ASSURES COMPLIANCE WITH 40 CFR §60.332(a)(2) FOR ALL THREE (3) GROUP 005 TURBINES EXCEPT FOR SOURCE IDs 033 AND 034 DURING PERIODS OF STARTUP AND SHUTDOWN; FUEL BOUND NITROGEN ALLOWANCE IS NOT BEING CLAIMED]

(6) If the owner or operator elects to install a CEMS, the performance evaluation of the CEMS may either be conducted separately (as described in 40 CFR §60.335(b)(7), below) or as part of the initial performance test of the affected unit. [THE GROUP 005 TURBINES EACH DO NOT CURRENTLY EMPLOY CEMS]

(7) If the owner or operator elects to install and certify a NO_x CEMS under 40 CFR §60.334(e), then the initial performance test required under 40 CFR §60.8 may be done in the following alternative manner:

(i) Perform a minimum of 9 reference method runs, with a minimum time per run of 21 minutes, at a single load level, between 90 and 100 percent of peak (or the highest physically achievable) load.

(ii) Use the test data both to demonstrate compliance with the applicable NO_x emission limit under 40 CFR §60.332 and to provide the required reference method data for the RATA of the CEMS described under 40 CFR §60.334(b).

(iii) The requirement to test at three additional load levels is waived.

[THE GROUP 005 TURBINES EACH DO NOT CURRENTLY EMPLOY CEMS]

(8) [N/A - THE GROUP 005 TURBINES EACH COMMENCED CONSTRUCTION ON OR BEFORE JULY 8, 2004; THEREFORE, THEY ARE NOT SUBJECT TO 40 CFR §60.334(f)]

(9) [N/A - SOURCE IDs 033 AND 034 ARE EACH SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION E (GROUP 2), CONDITION #002, EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN; SOURCE ID 035 IS SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION D (SOURCE ID 035), CONDITION #002(a); THIS ASSURES COMPLIANCE WITH 40 CFR §60.332(a)(2) FOR ALL THREE (3) GROUP 005 TURBINES EXCEPT FOR SOURCE IDs 033 AND 034 DURING PERIODS OF STARTUP AND SHUTDOWN; FUEL BOUND NITROGEN ALLOWANCE IS NOT BEING CLAIMED]

(10) [N/A - EACH GROUP 005 TURBINE'S SULFUR CONTENT MONITORING WILL BE ACCOMPLISHED VIA COMPLIANCE WITH 40 CFR §60.334(h)(3), ABOVE]

(11) [N/A - SOURCE IDs 033 AND 034 ARE EACH SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION E (GROUP 2), CONDITION #002, EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN; SOURCE ID 035 IS SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION D (SOURCE ID 035), CONDITION #002(a); THIS ASSURES COMPLIANCE WITH 40 CFR §60.332(a)(2) FOR ALL THREE (3) GROUP 005 TURBINES EXCEPT FOR SOURCE IDs 033 AND 034 DURING PERIODS OF STARTUP AND SHUTDOWN; FUEL BOUND NITROGEN ALLOWANCE IS NOT BEING CLAIMED; ALSO, EACH GROUP 005 TURBINE'S SULFUR CONTENT MONITORING WILL BE ACCOMPLISHED VIA COMPLIANCE WITH 40 CFR §60.334(h)(3), ABOVE]

(c) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this condition [40 CFR §60.335]:

(1) Instead of using the equation in 40 CFR §60.335(b)(1), above, manufacturers may develop ambient condition

**SECTION E. Source Group Restrictions.**

correction factors to adjust the nitrogen oxides emission level measured by the performance test as provided in 40 CFR §60.8 to ISO standard day conditions.

III. MONITORING REQUIREMENTS.**# 004 [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.**

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

- (a) [N/A - THE GROUP 005 TURBINES EACH DO NOT USE WATER OR STEAM INJECTION FOR NO_x EMISSIONS CONTROL]
- (b) [N/A - THE GROUP 005 TURBINES EACH DO NOT USE WATER OR STEAM INJECTION FOR NO_x EMISSIONS CONTROL]
- (c) For any turbine that commenced construction, reconstruction or modification after October 3, 1977, but before July 8, 2004, and which does not use steam or water injection to control NO_x emissions, the owner or operator may, but is not required to, for purposes of determining excess emissions, use a CEMS that meets the requirements of 40 CFR §60.334(b). Also, if the owner or operator has previously submitted and received EPA, State, or local permitting authority approval of a procedure for monitoring compliance with the applicable NO_x emission limit under 40 CFR §60.332, that approved procedure may continue to be used. [THE GROUP 005 TURBINES EACH DO NOT CURRENTLY EMPLOY CEMS]
- (d) [N/A - THE GROUP 005 TURBINES EACH COMMENCED CONSTRUCTION ON OR BEFORE JULY 8, 2004; ALSO, THE GROUP 005 TURBINES EACH DO NOT USE WATER OR STEAM INJECTION FOR NO_x EMISSIONS CONTROL]
- (e) [N/A - THE GROUP 005 TURBINES EACH COMMENCED CONSTRUCTION ON OR BEFORE JULY 8, 2004]
- (f) [N/A - THE GROUP 005 TURBINES EACH COMMENCED CONSTRUCTION ON OR BEFORE JULY 8, 2004]
- (g) [N/A - THE GROUP 005 TURBINES ARE EACH NOT SUBJECT TO 40 CFR §60.334(a), (d) or (f)]
- (h) The owner or operator of any stationary gas turbine subject to the provisions of 40 CFR Part 60, Subpart GG:
- (1) Shall monitor the total sulfur content of the fuel being fired in the turbine, except as provided in 40 CFR §60.334(h)(3), below. The sulfur content of the fuel must be determined using total sulfur methods described in 40 CFR §60.335(b)(10). Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than 0.4 weight percent (4000 ppmw), ASTM D4084-82, 94, D5504-01, D6228-98, or Gas Processors Association Standard 2377-86 (all of which are incorporated by reference - see 40 CFR §60.17), which measure the major sulfur compounds may be used; and
 - (2) [N/A - SOURCE IDs 033 AND 034 ARE EACH SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION E (GROUP 2), CONDITION #002, EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN; SOURCE ID 035 IS SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION D (SOURCE ID 035), CONDITION #002(a); THIS ASSURES COMPLIANCE WITH 40 CFR §60.332(a)(2) FOR ALL THREE (3) GROUP 005 TURBINES EXCEPT FOR SOURCE IDs 033 AND 034 DURING PERIODS OF STARTUP AND SHUTDOWN; FUEL BOUND NITROGEN ALLOWANCE IS NOT BEING CLAIMED]
 - (3) Notwithstanding the provisions of 40 CFR §60.334(h)(1), above, the owner or operator may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR §60.331(u), regardless of whether an existing custom schedule approved by the Administrator for 40 CFR Part 60, Subpart GG, requires such monitoring. The owner or operator shall use one of the following sources of information to make the required demonstration:
 - (i) The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or
 - (ii) Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20

**SECTION E. Source Group Restrictions.**

grains/100 scf. At a minimum, the amount of fuel sampling data specified in Section 2.3.1.4 or 2.3.2.4 of Appendix D to 40 CFR Part 75 is required.

(4) [N/A - A CUSTOM FUEL MONITORING SCHEDULE HAS NOT BEEN PREVIOUSLY APPROVED FOR ANY OF THE GROUP 005 TURBINES]

(i) The frequency of determining the sulfur and nitrogen content of the fuel shall be as follows:

(1) [N/A - THE GROUP 005 TURBINES EACH DO NOT FIRE FUEL OIL]

(2) [N/A - SOURCE IDs 033 AND 034 ARE EACH SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION E (GROUP 2), CONDITION #002, EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN; SOURCE ID 035 IS SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION D (SOURCE ID 035), CONDITION #002(a); THIS ASSURES COMPLIANCE WITH 40 CFR §60.332(a)(2) FOR ALL THREE (3) GROUP 005 TURBINES EXCEPT FOR SOURCE IDs 033 AND 034 DURING PERIODS OF STARTUP AND SHUTDOWN; FUEL BOUND NITROGEN ALLOWANCE IS NOT BEING CLAIMED; ALSO, THE STATIONARY GAS TURBINE'S SULFUR CONTENT MONITORING WILL BE ACCOMPLISHED VIA COMPLIANCE WITH 40 CFR §60.334(h)(3), ABOVE]

(3) [N/A - EACH GROUP 005 TURBINE'S SULFUR CONTENT MONITORING WILL BE ACCOMPLISHED VIA COMPLIANCE WITH 40 CFR §60.334(h)(3), ABOVE]

(j) For each affected unit that elects to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content or fuel nitrogen content under 40 CFR Part 60, Subpart GG, the owner or operator shall submit reports of excess emissions and monitor downtime in accordance with 40 CFR §60.7(c). Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under 40 CFR §60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined as follows:

(1) Nitrogen oxides.

(i) [N/A - THE GROUP 005 TURBINES EACH DO NOT USE WATER OR STEAM INJECTION FOR NO_x EMISSIONS CONTROL]

(ii) [N/A - SOURCE IDs 033 AND 034 ARE EACH SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION E (GROUP 2), CONDITION #002, EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN; SOURCE ID 035 IS SUBJECT TO THE MORE STRINGENT NO_x EMISSION LIMIT OF SECTION D (SOURCE ID 035), CONDITION #002(a); THIS ASSURES COMPLIANCE WITH 40 CFR §60.332(a)(2) FOR ALL THREE (3) GROUP 005 TURBINES EXCEPT FOR SOURCE IDs 033 AND 034 DURING PERIODS OF STARTUP AND SHUTDOWN; FUEL BOUND NITROGEN ALLOWANCE IS NOT BEING CLAIMED]

(iii) For turbines using NO_x and diluent CEMS:

(A) An hour of excess emissions shall be any unit operating hour in which the 4-hour rolling average NO_x concentration exceeds the applicable emission limit in 40 CFR §60.332(a)(1) or (2). For the purposes of 40 CFR Part 60, Subpart GG, a "4-hour rolling average NO_x concentration" is the arithmetic average of the average NO_x concentration measured by the CEMS for a given hour (corrected to 15 percent O₂ and, if required under 40 CFR §60.335(b)(1), to ISO standard conditions) and the three unit operating hour average NO_x concentrations immediately preceding that unit operating hour.

(B) A period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour, for either NO_x concentration or diluent (or both).

(C) Each report shall include the ambient conditions (temperature, pressure, and humidity) at the time of the excess emission period and (if the owner or operator has claimed an emission allowance for fuel bound nitrogen) the nitrogen content of the fuel during the period of excess emissions. You do not have to report ambient conditions if you opt to use the worst case ISO correction factor as specified in 40 CFR §60.334(b)(3)(ii), above, or if you are not using the ISO correction equation under the provisions of 40 CFR §60.335(b)(1).

[THE GROUP 005 TURBINES EACH DO NOT CURRENTLY EMPLOY CEMS]

**SECTION E. Source Group Restrictions.**

(iv) [N/A - THE GROUP 005 TURBINES EACH COMMENCED CONSTRUCTION ON OR BEFORE JULY 8, 2004; THEREFORE, 40 CFR §60.334(f) IS NOT AN OPTION]

(2) [N/A - EACH GROUP 005 TURBINE'S SULFUR CONTENT MONITORING WILL BE ACCOMPLISHED VIA COMPLIANCE WITH 40 CFR §60.334(h)(3), ABOVE]

(3) [N/A - THE GROUP 005 TURBINES EACH DO NOT USE WATER OR STEAM INJECTION FOR NO_x EMISSIONS CONTROL]

(4) Emergency fuel. Each period during which an exemption provided in 40 CFR §60.332(k) is in effect shall be included in the report required in 40 CFR §60.7(c). For each period, the type, reasons, and duration of the firing of the emergency fuel shall be reported.

(5) All reports required under 40 CFR §60.7(c) shall be postmarked by the 30th day following the end of each 6-month period. [i.e., THE REPORT FOR JANUARY 1 THROUGH JUNE 30 SHALL BE POSTMARKED BY JULY 30; THE REPORT FOR JULY 1 THROUGH DECEMBER 31 SHALL BE POSTMARKED BY JANUARY 30]

40 CFR §60.7(c) states the following:

(c) Each owner or operator required to install a continuous monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in 40 CFR Part 60, Subpart GG) and/or summary report form (see 40 CFR §60.7(d), below) to the Administrator semiannually, except when the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source(s). All reports shall be postmarked by the 30th day following the end of each six-month period. Written reports of excess emissions shall include the following information:

(1) The magnitude of excess emissions computed in accordance with 40 CFR §60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.

(2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.

(3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.

(4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

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).

**SECTION E. Source Group Restrictions.****VII. ADDITIONAL REQUIREMENTS.****# 005 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

In the event that 40 CFR Part 60, Subpart GG - Standards of Performance for Stationary Gas Turbines (NSPS Subpart GG) is revised, the permittee shall comply with the revised version of NSPS Subpart GG, and shall not be required to comply with any provisions in this operating permit designated as having NSPS Subpart GG as their authority, to the extent that such operating permit provisions would be inconsistent with the applicable provisions of the revised NSPS Subpart GG.

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.330]**Subpart GG - Standards of Performance for Stationary Gas Turbines
Applicability and designation of affected facility.**

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

(a) The provisions of 40 CFR Part 60, Subpart GG, are applicable to the following affected facilities: All stationary gas turbines with a heat input at peak load equal to or greater than 10.7 gigajoules (10 million BTU) per hour, based on the lower heating value of the fuel fired.

(b) Any facility under 40 CFR §60.330(a), above, which commences construction, modification, or reconstruction after October 3, 1977, is subject to the requirements of 40 CFR Part 60, Subpart GG, except as provided in 40 CFR §60.332(e)&(j).

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.331]**Subpart GG - Standards of Performance for Stationary Gas Turbines
Definitions.**

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

Terms used in 40 CFR Part 60, Subpart GG - Standards of Performance for Stationary Gas Turbines, as well as Section E, Group 5, are defined in the Clean Air Act; in 40 CFR §60.2 (General Provisions); and in 40 CFR §60.331.

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

[Additional authority for this permit condition is also derived from Plan Approval No. 05-05006C]

The Group 5 turbines are subject to 40 CFR Part 60, Subpart GG - Standards of Performance for Stationary Gas Turbines. The permittee shall comply with all applicable standards, compliance provisions, performance test, monitoring, record keeping, and reporting requirements contained at 40 CFR §§60.330 through 60.335, including all applicable portions of 40 CFR Part 60, Subpart A - General Provisions. The permittee shall comply with 40 CFR §60.4, which requires submission of copies of all requests, reports, applications, submittals, and other communications to both the U.S. Environmental Protection Agency (U.S. EPA) and the Department. The U.S. EPA copies shall be forwarded to:

Director
Air Protection Division
U.S. EPA, Region III (3AP00)
1650 Arch Street
Philadelphia, PA 19103-2029

The Department copies shall be forwarded to:

Regional Air Program Manager
PA Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

*** Permit Shield in Effect. ***

**SECTION E. Source Group Restrictions.**

Group Name: 006

Group Description: SOURCES SUBJECT TO MACT SUBPART ZZZZ

Sources included in this group

| ID | Name |
|-----|--|
| 031 | 2000 BHP, DRESSER CLARK TLA-6, UNIT 1, NO. 07201, SN 73778 |
| 032 | 2000 BHP, DRESSER CLARK TLA6, UNIT 2, NO. 07202, SN 73777 |

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE?**

Compliance with the numerical emission limitations established in 40 CFR Part 63, Subpart ZZZZ, is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in 40 CFR §63.6620 and Table 4 to 40 CFR Part 63, Subpart ZZZZ. [THERE ARE NO APPLICABLE 40 CFR Part 63, Subpart ZZZZ, NUMERICAL EMISSION LIMITATIONS]

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to 40 CFR Part 63, Subpart ZZZZ, and the operating limitations in Table 2b to 40 CFR Part 63, Subpart ZZZZ, that apply to you. [THE APPLICABLE TABLE 2d REQUIREMENTS ARE DESCRIBED BELOW; THERE ARE NO APPLICABLE TABLE 2b REQUIREMENTS]

(b) [N/A - THE FACILITY IS NOT LOCATED IN ALASKA]

(c) [N/A - THE STATIONARY RICEs ARE NOT LOCATED ON AN OFFSHORE VESSEL]

(d) [N/A - THE STATIONARY RICEs ARE NOT COMPRESSION IGNITION (CI) STATIONARY RICEs; THEY ARE SPARK IGNITION (SI) 2SLB STATIONARY RICEs]

(e) [N/A - THE STATIONARY RICEs ARE NOT COMPRESSION IGNITION (CI) STATIONARY RICEs; THEY ARE SPARK IGNITION (SI) 2SLB STATIONARY RICEs]

(f) [N/A - THE STATIONARY RICEs ARE NOT SPARK IGNITION (SI) 4SLB OR 4SRB STATIONARY RICEs; THEY ARE SI 2SLB STATIONARY RICEs]

[75 FR 9675, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6701, Jan. 30, 2013]

Table 2d to 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions)

As stated in 40 CFR §§63.6603 and 63.6640, you must comply with the following requirements for existing non-emergency, non-black start 2SLB stationary RICE located at area sources of HAP emissions, except during periods of startup:

(6)(a) Change oil and filter every 4,320 hours of operation or annually, whichever comes first*;

(6)(b) Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary; and

(6)(c) Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.

During periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at

**SECTION E. Source Group Restrictions.**

startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

* Sources have the option to utilize an oil analysis program as described in 40 CFR §63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2d of 40 CFR Part 63, Subpart ZZZZ.

[78 FR 6709, Jan. 30, 2013]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.**# 002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

(a) [N/A - THE STATIONARY RICEs ARE NOT SUBJECT TO ANY EMISSION LIMITATION OR OPERATING LIMITATION]

(b) [N/A - THE STATIONARY RICEs ARE NOT SUBJECT TO ANY EMISSION LIMITATION OR OPERATING LIMITATION AND DO NOT EMPLOY CEMS OR CPMS]

(c) [N/A - THE STATIONARY RICEs ARE EXISTING STATIONARY RICES AND DO NOT FIRE ANY LANDFILL GAS OR DIGESTER GAS]

(d) [N/A - THE STATIONARY RICEs ARE NOT SUBJECT TO ANY EMISSION LIMITATION OR OPERATING LIMITATION]

(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device according to your own maintenance plan if you own or operate any of the following stationary RICE:

(1) [N/A - THE STATIONARY RICEs EACH HAVE A SITE RATING GREATER THAN OR EQUAL TO 100 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(2) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS A NON-EMERGENCY STATIONARY RICE]

(3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to 40 CFR Part 63, Subpart ZZZZ.

(f) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS A NON-EMERGENCY STATIONARY RICE]

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 78 FR 6706, Jan. 30, 2013]

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6660]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****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 40 CFR §63.10(b)(1).

(b) As specified in 40 CFR §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence,

**SECTION E. Source Group Restrictions.**

measurement, maintenance, corrective action, report, or record.

(c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §63.10(b)(1).

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010]

V. REPORTING REQUIREMENTS.**# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6645]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What notifications must I submit and when?**

(a) You must submit all of the notifications in 40 CFR §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following:

(1) [N/A - THE STATIONARY RICEs EACH HAVE A SITE RATING GREATER THAN 500 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(2) An existing stationary RICE located at an area source of HAP emissions. [SEE 40 CFR §63.6645(a)(5), BELOW]

(3) [N/A - THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(4) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING 2SLB STATIONARY RICE AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(5) This requirement does not apply if you own or operate an existing stationary RICE less than 100 HP, an existing stationary emergency RICE, or an existing stationary RICE that is not subject to any numerical emission standards [THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE AND ARE NOT SUBJECT TO ANY NUMERICAL EMISSION STANDARDS; THEREFORE, 40 CFR §63.6645(a) IS NOT APPLICABLE].

(b) [N/A - THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(c) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(d) [N/A - THE STATIONARY RICEs EACH HAVE A SITE RATING GREATER THAN 500 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(e) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE HAVING A SITE RATING GREATER THAN OR EQUAL TO 500 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(f) [N/A - THE STATIONARY RICEs ARE NOT SUBJECT TO 40 CFR §63.6590(b)]

(g) [N/A - THE STATIONARY RICEs ARE NOT SUBJECT TO A PERFORMANCE TEST REQUIREMENT]

(h) [N/A - THE STATIONARY RICEs ARE NOT SUBJECT TO A PERFORMANCE TEST REQUIREMENT OR ANY INITIAL COMPLIANCE DEMONSTRATION AS SPECIFIED IN TABLES 4 OR 5 TO 40 CFR PART 63, SUBPART ZZZZ]

(i) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS A SI STATIONARY RICE]

[73 FR 3606, Jan. 18, 2008, as amended at 75 FR 9677, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6705, Jan. 30, 2013]

VI. WORK PRACTICE REQUIREMENTS.**# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

**SECTION E. Source Group Restrictions.****What are my general requirements for complying with this subpart?**

- (a) You must be in compliance with the emission limitations, operating limitations, and other requirements in 40 CFR Part 63, Subpart ZZZZ, that apply to you at all times.
- (b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by 40 CFR Part 63, Subpart ZZZZ, have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which 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.

[75 FR 9675, Mar. 3, 2010, as amended at 78 FR 6702, Jan. 30, 2013]

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

- (a) [N/A - THE STATIONARY RICEs DO NOT EMPLOY CEMS]
- (b) [N/A - THE STATIONARY RICEs ARE NOT REQUIRED TO EMPLOY A CPMS]
- (c) [N/A - THE STATIONARY RICEs ARE EXISTING STATIONARY RICES AND DO NOT FIRE ANY LANDFILL GAS OR DIGESTER GAS]
- (d) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING NON-EMERGENCY 2SLB STATIONARY RICE HAVING A SITE RATING GREATER THAN 500 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]
- (e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practices for minimizing emissions:
- (1) [N/A - THE STATIONARY RICEs EACH HAVE A SITE RATING OF GREATER THAN OR EQUAL TO 100 HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]
 - (2) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS A NON-EMERGENCY AND NON-BLACK START STATIONARY RICE HAVING A SITE RATING GREATER THAN 500 HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]
 - (3) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS A NON-EMERGENCY AND NON-BLACK START STATIONARY RICE]
 - (4) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS A SI STATIONARY RICE AND EACH HAVE A SITE RATING GREATER THAN 300 HP]
 - (5) An existing non-emergency, non-black start 2SLB stationary RICE located at an area source of HAP emissions.
 - (6) [N/A - THE STATIONARY RICEs DO NOT FIRE ANY LANDFILL GAS OR DIGESTER GAS]
 - (7) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS 2SLB STATIONARY RICES AND EACH HAVE A SITE RATING GREATER THAN 500 HP]
 - (8) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS A 2SLB STATIONARY RICE AND EACH HAVE A SITE RATING GREATER THAN 500 HP]
 - (9) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS A 2SLB STATIONARY RICE AND EACH OPERATE GREATER THAN 24 HOURS PER CALENDAR YEAR]

**SECTION E. Source Group Restrictions.**

(10) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS A 2SLB STATIONARY RICE AND EACH OPERATE GREATER THAN 24 HOURS PER CALENDAR YEAR]

(f) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS A NON-EMERGENCY STATIONARY RICE]

(g) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS A NON-CI (i.e., 2SLB) STATIONARY RICE]

(h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to 40 CFR Part 63, Subpart ZZZZ, apply. [THE STATIONARY RICEs ARE SUBJECT TO TABLE 2d TO 40 CFR PART 63, SUBPART ZZZZ]

(i) [THE STATIONARY RICEs ARE NOT SUBJECT TO THE WORK, OPERATION OR MANAGEMENT PRACTICES IN ITEMS 1 OR 2 OF TABLE 2c TO 40 CFR PART 63, SUBPART ZZZZ, OR IN ITEMS 1 OR 4 OF TABLE 2d TO 40 CFR PART 63, SUBPART ZZZZ]

(j) If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to 40 CFR Part 63, Subpart ZZZZ, or in items 5, 6, 7, 9, or 11 of Table 2d to 40 CFR Part 63, Subpart ZZZZ, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to 40 CFR Part 63, Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to 40 CFR Part 63, Subpart ZZZZ. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6703, Jan. 30, 2013]

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?

(a) You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to 40 CFR Part 63, Subpart ZZZZ, that apply to you according to methods specified in Table 6 to 40 CFR Part 63, Subpart ZZZZ. [THE APPLICABLE TABLE 6 REQUIREMENTS ARE DESCRIBED BELOW]

(b) [N/A - THE STATIONARY RICEs ARE NOT SUBJECT TO ANY EMISSION LIMITATION OR OPERATING LIMITATION IN TABLES 1a, 1b, 2a, 2b, 2c, OR 2d TO 40 CFR PART 63, SUBPART ZZZZ]

(c) [N/A - THE STATIONARY RICEs ARE EACH A 2SLB (i.e., NON-4SLB/4SRB) STATIONARY RICE]

(d) [N/A - THE STATIONARY RICEs ARE NOT SUBJECT TO ANY EMISSION LIMITATION OR OPERATING LIMITATION IN TABLES 1a, 1b, 2a, 2b, 2c, OR 2d TO 40 CFR PART 63, SUBPART ZZZZ]

(e) You must also report each instance in which you did not meet the requirements in Table 8 to 40 CFR Part 63, Subpart ZZZZ, that apply to you.

**SECTION E. Source Group Restrictions.**

(f) [N/A - THE STATIONARY RICEs ARE NON-EMERGENCY STATIONARY RICEs]

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6704, Jan. 30, 2013]

Table 6 to 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (Continuous Compliance With Emission Limitations, and Other Requirements)

As stated in 40 CFR §63.6640, you must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

For each existing non-emergency 2SLB stationary RICE located at an area source of HAP complying with the work or management practices, you must demonstrate continuous compliance by:

(9)(a)(i) Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

(9)(a)(ii) Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[78 FR 6715, Jan. 30, 2013]

VII. ADDITIONAL REQUIREMENTS.**# 008 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

In the event that 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (MACT Subpart ZZZZ) is revised, the permittee shall comply with the revised version of MACT Subpart ZZZZ, and shall not be required to comply with any provisions in this operating permit designated as having MACT Subpart ZZZZ as their authority, to the extent that such operating permit provisions would be inconsistent with the applicable provisions of the revised MACT Subpart ZZZZ.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1]**Subpart A--General Provisions****Applicability.**

The Group 006 engines are subject to 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The permittee shall comply with all applicable standards, compliance provisions, performance test, monitoring, record keeping, and reporting requirements contained at 40 CFR §§63.6580 through 63.6675, including all applicable portions of 40 CFR Part 63, Subpart A - General Provisions. The permittee shall comply with 40 CFR §63.13(a), which requires submission of copies of all requests, reports, applications, submittals, and other communications to both the U.S. Environmental Protection Agency (U.S. EPA) and the Department. The U.S. EPA copies shall be forwarded to:

Director
Air Protection Division
U.S. EPA, Region III (3AP00)
1650 Arch Street
Philadelphia, PA 19103-2029

The Department copies shall be forwarded to:

Regional Air Program Manager
PA Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

**SECTION E. Source Group Restrictions.****# 010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6580]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What is the purpose of subpart ZZZZ?**

40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (MACT Subpart ZZZZ) establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. MACT Subpart ZZZZ also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

[73 FR 3603, Jan. 18, 2008]

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

You are subject to 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (MACT Subpart ZZZZ) if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR §1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site. [THE FACILITY IS NOT A MAJOR SOURCE OF HAP EMISSIONS]

(c) An area source of HAP emissions is a source that is not a major source. [THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(d) If you are an owner or operator of an area source subject to MACT Subpart ZZZZ, your status as an entity subject to a standard or other requirements under MACT Subpart ZZZZ does not subject you to the obligation to obtain a permit under 40 CFR Part 70 or 71, provided you are not required to obtain a permit under 40 CFR §70.3(a) or 40 CFR §71.3(a) for a reason other than your status as an area source under MACT Subpart ZZZZ. Notwithstanding the previous sentence, you must continue to comply with the provisions of MACT Subpart ZZZZ as applicable. [N/A - THE FACILITY ALREADY POSSESSES A TITLE V OPERATING PERMIT]

(e) If you are an owner or operator of a stationary RICE used for national security purposes, you may be eligible to request an exemption from the requirements of MACT Subpart ZZZZ as described in 40 CFR Part 1068, Subpart C.

(f) [N/A - THE ENGINES ARE NOT EMERGENCY STATIONARY RICES]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008; 78 FR 6700, Jan. 30, 2013]

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6590]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What parts of my plant does this subpart cover?**

40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (MACT Subpart ZZZZ) applies to each affected source.

(a) Affected source. An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

**SECTION E. Source Group Restrictions.**

(1) Existing stationary RICE.

(i) [N/A - THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(ii) [N/A - THE STATIONARY RICEs EACH HAVE A SITE RATING OF GREATER THAN 500 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

(2) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE]

(3) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE]

(b) Stationary RICE subject to limited requirements.

(1) An affected source which meets either of the criteria in 40 CFR §63.6590(b)(1)(i) through (ii), below, does not have to meet the requirements of MACT Subpart ZZZZ and of 40 CFR Part 63, Subpart A (General Provisions) except for the initial notification requirements of 40 CFR §63.6645(f).

(i) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE; EACH ARE NOT AN EMERGENCY STATIONARY RICE; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(ii) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE; EACH ARE NOT A LIMITED USE STATIONARY RICE; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(2) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE; DOES NOT COMBUST ANY LANDFILL OR DIGESTER GAS; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(3) The following stationary RICE do not have to meet the requirements of MACT Subpart ZZZZ and of 40 CFR Part 63, Subpart A (General Provisions), including initial notification requirements:

(i) [N/A - THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(ii) [N/A - THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(iii) [N/A - THE STATIONARY RICEs ARE EACH NOT AN EMERGENCY STATIONARY RICE AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(iv) [N/A - THE STATIONARY RICEs ARE EACH NOT A LIMITED USE STATIONARY RICE AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(v) [N/A - THE STATIONARY RICEs EACH DO NOT COMBUST ANY LANDFILL OR DIGESTER GAS AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(c) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE AND ARE NOT SUBJECT TO EITHER 40 CFR PART 60, SUBPART III, OR 40 CFR PART 60, SUBPART JJJJ]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9674, Mar. 3, 2010; 75 FR 37733, June 30, 2010; 75 FR 51588, Aug. 20, 2010; 78 FR 6700, Jan. 30, 2013]

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6595]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

When do I have to comply with this subpart?

**SECTION E. Source Group Restrictions.****(a) Affected sources.**

(1) If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations, operating limitations and other requirements no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013. If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013. [THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY SI RICE LOCATED AT AN AREA SOURCE OF HAP EMISSIONS; THEREFORE, THE APPLICABLE COMPLIANCE DATE IS 10/19/13; HOWEVER, EPA GRANTED COLUMBIA GAS TRANSMISSION A 1-YEAR COMPLIANCE DATE EXTENSION OF 10/19/14]

(2) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(3) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(4) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE; EACH HAVE A SITE RATING OF GREATER THAN 500 BRAKE HP; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(5) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE; EACH HAVE A SITE RATING OF GREATER THAN 500 BRAKE HP; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(6) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE]

(7) [N/A - THE STATIONARY RICEs ARE EACH DEFINED AS AN EXISTING STATIONARY RICE]

(b) Area sources that become major sources. If you have an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP, the compliance dates in 40 CFR §63.6595(b)(1) and (2), below, apply to you.

(1) Any stationary RICE for which construction or reconstruction is commenced after the date when your area source becomes a major source of HAP must be in compliance with 40 CFR Part 63, Subpart ZZZZ, upon startup of your affected source.

(2) Any stationary RICE for which construction or reconstruction is commenced before your area source becomes a major source of HAP must be in compliance with the provisions of 40 CFR Part 63, Subpart ZZZZ, that are applicable to RICE located at major sources within 3 years after your area source becomes a major source of HAP.

(c) If you own or operate an affected source, you must meet the applicable notification requirements in 40 CFR §63.6645 and in 40 CFR Part 63, Subpart A (General Provisions).

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 78 FR 6701, Jan. 30, 2013]

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6612]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake (please see below)

If you own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions you are subject to the

**SECTION E. Source Group Restrictions.**

requirements of 40 §63.6612.

(a) You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to 40 CFR Part 63, Subpart ZZZZ, that apply to you within 180 days after the compliance date that is specified for your stationary RICE in 40 §63.6595 and according to the provisions in 40 CFR §63.7(a)(2). [THERE ARE NO APPLICABLE TABLE 4 OR 5 REQUIREMENTS]

(b) [N/A - THE STATIONARY RICES HAVE NOT BEEN PREVIOUSLY PERFORMANCE TESTED]

[75 FR 9676, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010]

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6665]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What parts of the General Provisions apply to me?

Table 8 to 40 CFR Part 63, Subpart ZZZZ, shows which parts of the General Provisions in 40 CFR §§ 63.1 through 63.15 apply to you.

[75 FR 9678, Mar. 3, 2010]

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6675]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What definitions apply to this subpart?

Terms used in 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, as well as Section E, Group 006, are defined in the Clean Air Act; in 40 CFR §63.2 (General Provisions); and in 40 CFR §63.6675.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3607, Jan. 18, 2008; 75 FR 9679, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 76 FR 12867, Mar. 9, 2011; 78 FR 6706, Jan. 30, 2013]

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

**SECTION E. Source Group Restrictions.**

Group Name: 007

Group Description: SOURCE SUBJECT TO NSPS SUBPART JJJJ

Sources included in this group

| ID | Name |
|-----|-------------------------------------|
| G02 | EMERGENCY ENGINE (WAUKESHA VGF18GL) |

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

| |
|---|
| <p># 001 [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?</p> <p>(a) [N/A - THE SI ICE HAS A MAXIMUM ENGINE POWER GREATER THAN 19 KW (25 HP)]</p> <p>(b) [N/A - THE SI ICE IS NATURAL GAS-FIRED]</p> <p>(c) [N/A - THE SI ICE IS NATURAL GAS-FIRED AND LEAN BURN]</p> <p>(d) [N/A - THE SI ICE HAS A MAXIMUM ENGINE POWER GREATER THAN OR EQUAL TO 75 KW (100 HP)]</p> <p>(e) 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 40 CFR Part 60, Subpart JJJJ*, 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 40 CFR Part 60, Subpart JJJJ, then the owners and operators may meet the CO certification (not field testing) standard for which the engine was certified.</p> <p>* [40 CFR PART 60, SUBPART JJJJ, TABLE 1 EMISSION STANDARDS FOR EMERGENCY STATIONARY SI ICEs WITH A MAXIMUM ENGINE POWER >= 130 HP AND HAVING A MANUFACTURE DATE ON OR AFTER 1/01/09: NOx not to exceed 2.0 g/HP-hr OR 160 ppmvd at 15% oxygen; CO not to exceed 4.0 g/HP-hr OR 540 ppmvd at 15% oxygen; VOC not to exceed 1.0 g/HP-hr [excluding formaldehyde] OR 86 ppmvd at 15% oxygen [excluding formaldehyde]]</p> <p>(f) [N/A - THE SI ICE IS DEFINED AS A NEW UNIT]</p> <p>(g) [N/A - THE FUEL USED WILL BE PIPELINE QUALITY NATURAL GAS; NOT WELLHEAD NATURAL GAS]</p> <p>(h) [N/A - THE SI ICE IS SUBJECT TO THE EMISSION STANDARDS OF TABLE 1 TO 40 CFR PART 60, SUBPART JJJJ; IT IS NOT SUBJECT TO THE STANDARDS OF 40 CFR §1048.101]</p> <p>[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37973, June 28, 2011]</p> |
| <p># 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4234] Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion engine?</p> <p>Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in 40 CFR §60.4233 over the entire life of the engine.</p> |
| <p># 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4236] Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines What is the deadline for importing or installing stationary SI ICE produced in the previous model year?</p> <p>(a) [N/A - THE SI ICE IS DEFINED AS AN EMERGENCY ENGINE; SEE 40 CFR §4230(a)(4)(iv), BELOW]</p> <p>(b) [N/A - THE SI ICE HAS A MAXIMUM ENGINE POWER LESS THAN 500 HP]</p> |

**SECTION E. Source Group Restrictions.**

(c) For emergency stationary SI ICE with a maximum engine power of greater than 19 KW (25 HP), owners and operators may not install engines that do not meet the applicable requirements in 40 CFR §60.4233 after January 1, 2011.

(d) [N/A - THE SI ICE HAS A MAXIMUM ENGINE POWER GREATER THAN 19 KW (25 HP) AND IS NATURAL GAS-FIRED AND LEAN BURN]

(e) [N/A - THE SI ICE IS DEFINED AS A NEW UNIT AND HAVE NOT BEEN RELOCATED / REINSTALLED]

II. TESTING REQUIREMENTS.**# 004 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

(a) Pursuant to 25 Pa. Code §139.3, at least 30 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(b) Pursuant to 25 Pa. Code §139.3, at least 15 calendar days prior to commencing an emissions testing program, notification as to the date and time of testing shall be given to the Southcentral Regional Office. Notification shall also be sent to the Bureau of Air Quality's Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) Pursuant to 25 Pa. Code §139.53(a)(3), within 15 calendar days after completion of the on-site testing portion of an emissions test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Bureau of Air Quality's Division of Source Testing and Monitoring and the Southcentral Regional Office indicating the completion date of the on-site testing.

(d) Pursuant to 25 Pa. Code §139.3, a complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emissions test program.

(e) Pursuant to 25 Pa. Code §139.53(b), a complete test report shall include a summary of the emissions 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 plan approval/operating permit conditions. The summary results will include, at a minimum, the following information:

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

(2) Plan approval/operating permit number(s) and condition(s) which are the basis for the evaluation.

(3) Summary of results with respect to each applicable plan approval/operating permit condition.

(4) Statement of compliance or non-compliance with each applicable plan approval/operating permit condition.

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

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

(h) Pursuant to 25 Pa. Code §§139.53(a)(1) and 139.53(a)(3), all submittals, besides notifications, shall be accomplished through PSIMS*Online available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp>. If internet submittal can not be accomplished, three (3) copies of the submittal shall be sent to the Southcentral Regional Office at the following address, with deadlines verified through document postmarks:

PADEP
Southcentral Regional Office
Air Quality Program
909 Elmerton Avenue
Harrisburg, PA 17110-8200

**SECTION E. Source Group Restrictions.**

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

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

(a) Pursuant to 25 Pa. Code §139.3, at least 30 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(b) Pursuant to 25 Pa. Code §139.3, at least 15 calendar days prior to commencing an emissions testing program, notification as to the date and time of testing shall be given to the Southcentral Regional Office. Notification shall also be sent to the Bureau of Air Quality's Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) Pursuant to 25 Pa. Code §139.53(a)(3), within 15 calendar days after completion of the on-site testing portion of an emissions test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Bureau of Air Quality's Division of Source Testing and Monitoring and the Southcentral Regional Office indicating the completion date of the on-site testing.

(d) Pursuant to 25 Pa. Code §139.3, a complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emissions test program.

(e) Pursuant to 25 Pa. Code §139.53(b), a complete test report shall include a summary of the emissions 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 plan approval/operating permit conditions. The summary results will include, at a minimum, the following information:

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

(2) Plan approval/operating permit number(s) and condition(s) which are the basis for the evaluation.

(3) Summary of results with respect to each applicable plan approval/operating permit condition.

(4) Statement of compliance or non-compliance with each applicable plan approval/operating permit condition.

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

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

(h) Pursuant to 25 Pa. Code §§139.53(a)(1) and 139.53(a)(3), all submittals, besides notifications, shall be accomplished through PSIMS*Online available through <https://www.depgreenport.state.pa.us/ecomm/Login.jsp>. If internet submittal can not be accomplished, three (3) copies of the submittal shall be sent to the Southcentral Regional Office at the following address, with deadlines verified through document postmarks:

PA DEP
Southcentral Regional Office
Air Quality Program
909 Elmerton Avenue
Harrisburg, PA 17110-8200

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

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4244]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What test methods and other procedures must I use if I am an owner or operator of a stationary SI internal combustion**

**SECTION E. Source Group Restrictions.****engine?**

Owners and operators of stationary SI ICE who conduct performance tests must follow the procedures in 40 CFR §60.4244(a) through (f), below.

(a) Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in 40 CFR §60.8 and under the specific conditions that are specified by Table 2 to 40 CFR Part 60, Subpart JJJJ. [THE APPLICABLE TABLE 2 REQUIREMENTS ARE DESCRIBED BELOW]

(b) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in 40 CFR §60.8(c). If your stationary SI internal combustion engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine.

(c) You must conduct three separate test runs for each performance test required in this condition (i.e., 40 CFR §60.4244), as specified in 40 CFR §60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour.

(d) To determine compliance with the NO_x mass per unit output emission limitation, convert the concentration of NO_x in the engine exhaust using Equation 1 of 40 CFR §60.4244, below:

$$ER = (Cd)(0.001912)(Q)(T)/(HP-hr) \quad \text{\{Equation 1\}}$$

Where:

ER = Emission rate of NO_x in g/HP-hr.

Cd = Measured NO_x concentration in parts per million by volume (ppmv).

0.001912 = Conversion constant for ppm NO_x to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, horsepower-hour (HP-hr).

(e) To determine compliance with the CO mass per unit output emission limitation, convert the concentration of CO in the engine exhaust using Equation 2 of 40 CFR §60.4244, below:

$$ER = (Cd)(0.001164)(Q)(T)/(HP-hr) \quad \text{\{Equation 2\}}$$

Where:

ER = Emission rate of CO in g/HP-hr.

Cd = Measured CO concentration in ppmv.

0.1164 = Conversion constant for ppm CO to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

(f) For purposes of 40 CFR Part 60, Subpart JJJJ, when calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, convert the concentration of VOC in the engine exhaust using Equation 3 of 40 CFR §60.4244, below:

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$$ER = (Cd)(0.001833)(Q)(T)/(HP-hr) \quad \{\text{Equation 3}\}$$

Where:

ER = Emission rate of VOC in g/HP-hr.

Cd = VOC concentration measured as propane in ppmv.

0.001833 = Conversion constant for ppm VOC measured as propane, to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

(g) If the owner/operator chooses to measure VOC emissions using either Method 18 of 40 CFR Part 60, Appendix A, or Method 320 of 40 CFR Part 63, Appendix A, then it has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5 of 40 CFR §60.4244, below. The corrected VOC concentration can then be placed on a propane basis using Equation 6 of 40 CFR §60.4244, below.

$$RF_i = (CM_i)/(CA_i) \quad \{\text{Equation 4}\}$$

Where:

RF_i = Response factor of compound i when measured with EPA Method 25A.

CM_i = Measured concentration of compound i in ppmv as carbon.

CA_i = True concentration of compound i in ppmv as carbon.

$$C_{icorr} = (RF_i)(C_{imeas}) \quad \{\text{Equation 5}\}$$

Where:

C_{icorr} = Concentration of compound i corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon.

C_{imeas} = Concentration of compound i measured by EPA Method 320, ppmv as carbon.

$$C_{P_{eq}} = (0.6098)(C_{icorr})$$

Where:

C_{P_{eq}} = Concentration of compound i in mg of propane equivalent per dry standard cubic meter.

[TABLE 2 REQUIREMENTS INCORPORATED BY REFERENCE]

[76 FR 37975, June 28, 2011, as amended at 78 FR 6698, Jan. 30, 2013]

III. MONITORING REQUIREMENTS.

**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4237]
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
What are the monitoring requirements if I am an owner or operator of an emergency stationary SI internal combustion**

**SECTION E. Source Group Restrictions.****engine?**

(a) [N/A - THE SI ICE HAS A MAXIMUM ENGINE POWER LESS THAN 500 HP]

(b) Starting on January 1, 2011, if the emergency stationary SI internal combustion engine that is greater than or equal to 130 HP and less than 500 HP that was built on or after January 1, 2011, does not meet the standards applicable to non-emergency engines, the owner or operator must install a non-resettable hour meter.

(c) [N/A - THE SI ICE HAS A MAXIMUM ENGINE POWER GREATER THAN OR EQUAL TO 130 HP]

IV. RECORDKEEPING REQUIREMENTS.**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?**

§60.4245 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?

Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements.

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

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

(2) Maintenance conducted on the engine.

(3) [N/A – THE SI ICE IS NOT A CERTIFIED ENGINE]

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

(b) For all stationary SI emergency ICE greater than or equal to 500 HP manufactured on or after July 1, 2010, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For all stationary SI emergency ICE greater than or equal to 130 HP and less than 500 HP manufactured on or after July 1, 2011 that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For all stationary SI emergency ICE greater than 25 HP and less than 130 HP manufactured on or after July 1, 2008, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [SOURCE ID G02 HAS A RATED POWER OUTPUT CAPACITY OF 440 HP AND WAS MANUFACTURED ON OR AFTER 7/01/11 AND DOES NOT MEET THE STANDARDS APPLICABLE TO NON-EMERGENCY ENGINES; THEREFORE, RECORDS OF THE HOURS OF OPERATION OF THE ENGINE RECORDED VIA THE NON-RESETTABLE HOUR METER MUST BE KEPT]

(c) [N/A - THE SI ICES EACH HAVE A MAXIMUM ENGINE POWER LESS THAN 500 HP]

(d) Owners and operators of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in §60.4244 within 60 days after the test has been completed. Performance test reports using EPA Method 18, EPA Method 320, or ASTM D6348-03 (incorporated by reference—see 40 CFR 60.17) to measure VOC require reporting of all QA/QC data. For Method 18, report results from sections 8.4 and 11.1.1.4; for Method 320, report results from sections 8.6.2, 9.0, and 13.0; and for ASTM D6348-03 report results of all QA/QC procedures in Annexes 1-7.

(e) If you own or operate an emergency stationary SI ICE with a maximum engine power more than 100 HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §60.4243(d)(2)(ii) and (iii) or that operates for the purposes specified in §60.4243(d)(3)(i), you must submit an annual

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report according to the requirements in paragraphs (e)(1) through (3) of this section. [POTENTIALLY APPLICABLE TO SOURCE ID G02]

(1) The report must contain the following information:

(i) Company name and address where the engine is located.

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

(iii) Engine site rating and model year.

(iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.

(v) Hours operated for the purposes specified in §60.4243(d)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in §60.4243(d)(2)(ii) and (iii).

(vi) Number of hours the engine is contractually obligated to be available for the purposes specified in §60.4243(d)(2)(ii) and (iii).

(vii) Hours spent for operation for the purposes specified in §60.4243(d)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in §60.4243(d)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §60.4.

[73 FR 3591, Jan. 18, 2008, as amended at 73 FR 59177, Oct. 8, 2008; 78 FR 6697, Jan. 30, 2013; 81 FR 59809, Aug. 30, 2016]

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.

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]

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

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

(a) [N/A - THE SI ICE IS NOT SUBJECT TO THE EMISSION STANDARDS SPECIFIED IN 40 CFR §60.4233(a) THROUGH (c)]

(b) If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in 40 CFR §60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in 40 CFR §60.4243(b)(1) and (2), below.

(1) [N/A - THE SI ICE IS A NON-CERTIFIED ENGINE]

(2) Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in 40 CFR §60.4233(d) or (e) and according to the requirements specified in 40 CFR §60.4244, as applicable, and according to 40 CFR §60.4243(b)(2)(i) and (ii), below.

(i) If you are an owner or operator of a stationary SI internal combustion engine greater than 25 HP and less than or equal

**SECTION E. Source Group Restrictions.**

to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance. [THE INITIAL PERFORMANCE TEST WAS CONDUCTED ON 12/12/13 AS REQUIRED UNDER 40 CFR §60.8; THE SOURCE ID G02 EMERGENCY ENGINE DEMONSTRATED COMPLIANCE WITH 40 CFR §60.4233(e) DURING THE INITIAL PERFORMANCE TEST]

(ii) [N/A - THE SI ICE HAS A MAXIMUM ENGINE POWER LESS THAN OR EQUAL TO 500 HP]

(c) [N/A - THE SI ICE IS DEFINED AS A NEW UNIT; THEREFORE, THE EMISSION STANDARDS SPECIFIED IN 40 CFR §60.4233(f) ARE NOT APPLICABLE]

(d) If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in 40 CFR §60.4243(d)(1) through (3), below. In order for the engine to be considered an emergency stationary ICE under 40 CFR Part 60, Subpart JJJJ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR §60.4243(d)(1) through (3), below, is prohibited. If you do not operate the engine according to the requirements in 40 CFR §60.4243(d)(1) through (3), below, the engine will not be considered an emergency engine under 40 CFR Part 60, Subpart JJJJ, and must meet all requirements for non-emergency engines.

(1) [N/A - THE SI ICE SHALL NOT OPERATE MORE THAN 500 HOURS DURING ANY CONSECUTIVE 12-MONTH PERIOD PURSUANT TO SECTION D (SOURCE ID G02), CONDITION #004]

(2) You may operate your emergency stationary ICE for any combination of the purposes specified in 40 CFR §60.4243(d)(2)(i) through (iii), below, for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR §60.4243(d)(3), below, counts as part of the 100 hours per calendar year allowed by this paragraph [40 CFR §60.4243(d)(2)].

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

(ii) - (iii) [VACATED BY COURT ORDER]

(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in 40 CFR §60.4243(d)(2), above. Except as provided in 40 CFR §60.4243(d)(3)(i), below, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

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

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

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

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

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

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional,

**SECTION E. Source Group Restrictions.**

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

(ii) [Reserved]

(e) Owners and operators of stationary SI natural gas-fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of 40 CFR §60.4233.

(f) If you are an owner or operator of a stationary SI internal combustion engine that is less than or equal to 500 HP and you purchase a non-certified engine or you do not operate and maintain your certified stationary SI internal combustion engine and control device according to the manufacturer's written emission-related instructions, you are required to perform initial performance testing as indicated in 40 CFR §60.4243, but you are not required to conduct subsequent performance testing unless the stationary engine is rebuilt or undergoes major repair or maintenance. A rebuilt stationary SI ICE means an engine that has been rebuilt as that term is defined in 40 CFR §94.11(a).

(g) [N/A - THE SI ICE IS NOT EQUIPPED WITH THREE-WAY CATALYSTS/NSCR]

(h) [N/A - THE SI ICE HAS A MAXIMUM ENGINE POWER LESS THAN 500 HP]

(i) [N/A - THE SI ICE IS DEFINED AS A NEW UNIT; THE EMISSION STANDARDS SPECIFIED IN 40 CFR §60.4233(f) ARE NOT APPLICABLE]

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37974, June 28, 2011; 78 FR 6697, Jan. 30, 2013]

VII. ADDITIONAL REQUIREMENTS.**# 010 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

In the event that 40 CFR Part 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (NSPS Subpart JJJJ) is revised, the permittee shall comply with the revised version of NSPS Subpart JJJJ, and shall not be required to comply with any provisions in this operating permit designated as having NSPS Subpart JJJJ as their authority, to the extent that such operating permit provisions would be inconsistent with the applicable provisions of the revised NSPS Subpart JJJJ.

011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]**Subpart A - General Provisions****Address.**

The Group 7 engine is subject to 40 CFR Part 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. The permittee shall comply with all applicable standards, compliance provisions, performance test, monitoring, record keeping, and reporting requirements contained at 40 CFR §§60.4230 through 60.4248, including all applicable portions of 40 CFR Part 60, Subpart A - General Provisions. The permittee shall comply with 40 CFR §60.4, which requires submission of copies of all requests, reports, applications, submittals, and other communications to both the U.S. Environmental Protection Agency (U.S. EPA) and the Department. The U.S. EPA copies shall be forwarded to:

Director
Air Protection Division
U.S. EPA, Region III (3AP00)
1650 Arch Street
Philadelphia, PA 19103-2029

The Department copies shall be forwarded to:

Regional Air Program Manager

**SECTION E. Source Group Restrictions.**

PA Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

**# 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
Am I subject to this subpart?**

(a) The provisions of 40 CFR Part 60, Subpart JJJJ, are applicable to manufacturers, owners, and operators of stationary spark ignition (SI) internal combustion engines (ICE) as specified in 40 CFR §4230(a)(1) through (6), below. For the purposes of 40 CFR Part 60, Subpart JJJJ, the date that construction commences is the date the engine is ordered by the owner or operator.

(1) [N/A - THE PERMITTEE IS NOT A SI ICE MANUFACTURER; THE SI ICE HAS A MAXIMUM ENGINE POWER GREATER THAN 19 KW (25 HP)]

(2) [N/A - THE PERMITTEE IS NOT A SI ICE MANUFACTURER; THE SI ICE IS NATURAL GAS-FIRED]

(3) [N/A - THE PERMITTEE IS NOT A SI ICE MANUFACTURER]

(4) Owners and operators of stationary SI ICE that commence construction after June 12, 2006, where the stationary SI ICE are manufactured:

(i) [N/A - THE SI ICE HAS A MAXIMUM ENGINE POWER LESS THAN 500 HP]

(ii) [N/A - THE SI ICE HAS A MAXIMUM ENGINE POWER LESS THAN 500 HP]

(iii) [N/A - THE SI ICE IS DEFINED AS AN EMERGENCY ENGINE; SEE 40 CFR §4230(a)(4)(iv), BELOW]

(iv) on or after January 1, 2009, for emergency engines with a maximum engine power greater than 19 KW (25 HP).

(5) [N/A - THE SI ICE IS DEFINED AS A NEW UNIT]

(6) The provisions of 40 CFR §60.4236 are applicable to all owners and operators of stationary SI ICE that commence construction after June 12, 2006.

(b) [N/A - THE SI ICE IS NOT BEING TESTED AT AN ENGINE TEST CELL/STAND]

(c) [N/A - THE FACILITY IS NOT AN AREA SOURCE AND ALREADY POSSESSES A TITLE V OPERATING PERMIT]

(d) [N/A - THE SI ICE IS NATURAL GAS-FIRED]

(e) Stationary SI ICE may be eligible for exemption from the requirements of 40 CFR Part 60, Subpart JJJJ, as described in 40 CFR Part 1068, Subpart C (or the exemptions described in 40 CFR Parts 90 and 1048, for engines that would need to be certified to standards in those parts), except that owners and operators, as well as manufacturers, may be eligible to request an exemption for national security.

(f) [THE SI ICE IS NOT A TEMPORARY REPLACEMENT UNIT]

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37972, June 28, 2011]

**# 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4246]
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
What parts of the General Provisions apply to me?**

Table 3 to 40 CFR Part 60, Subpart JJJJ, shows which parts of the General Provisions in 40 CFR §§60.1 through 60.19 apply to you.

**# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4248]
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**

**SECTION E. Source Group Restrictions.****What definitions apply to this subpart?**

Terms used in 40 CFR Part 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, as well as Section E (Group 007), are defined in the Clean Air Act; in 40 CFR §60.2 (General Provisions); and in 40 CFR §60.4248.

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

**SECTION E. Source Group Restrictions.**

Group Name: 008

Group Description: SOURCES SUBJECT TO NSPS SUBPART Dc

Sources included in this group

| ID | Name |
|------|----------------------|
| HTR7 | STORAGE HEATER NO. 4 |
| HTR8 | STORAGE HEATER NO. 5 |

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.42c]****Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Standard for sulfur dioxide.**

[Additional authority for this permit condition is also derived from Plan Approval/Operating Permit No. GP1-05-05006A]

- (a) [N/A - THE FUEL LINE HEATERS DO NOT FIRE COAL; THEY FIRE NATURAL GAS FUEL ONLY]
- (b) [N/A - THE FUEL LINE HEATERS DO NOT FIRE COAL OR COAL REFUSE; THEY FIRE NATURAL GAS FUEL ONLY]
- (c) [N/A - THE FUEL LINE HEATERS DO NOT FIRE COAL; THEY FIRE NATURAL GAS FUEL ONLY]
- (d) [N/A - THE FUEL LINE HEATERS DO NOT FIRE OIL; THEY FIRE NATURAL GAS FUEL ONLY]
- (e) [N/A - THE FUEL LINE HEATERS DO NOT FIRE COAL OR OIL; THEY FIRE NATURAL GAS FUEL ONLY - NO CO-FIRING]
- (f) [N/A - THE FUEL LINE HEATERS DO NOT FIRE ANY PRETREATED FUEL]
- (g) [N/A - THE FUEL LINE HEATERS FIRE NATURAL GAS FUEL ONLY; THEREFORE, THERE ARE NO APPLICABLE SO2 EMISSION LIMITS, SO2 PERCENT REDUCTION REQUIREMENTS, OR FUEL OIL SULFUR LIMITS]
- (h) [N/A - THE FUEL LINE HEATERS FIRE NATURAL GAS FUEL ONLY; THEREFORE, THERE ARE NO APPLICABLE SO2 EMISSION LIMITS OR FUEL OIL SULFUR LIMITS]
- (i) [N/A - THE FUEL LINE HEATERS FIRE NATURAL GAS FUEL ONLY; THEREFORE, THERE ARE NO APPLICABLE SO2 EMISSION LIMITS, FUEL OIL SULFUR LIMITS, OR SO2 PERCENT REDUCTION REQUIREMENTS]
- (j) [N/A - THE FACILITY IS NOT LOCATED IN A NONCONTINENTAL AREA AND THE FUEL LINE HEATERS ARE NOT SUBJECT TO THE PERCENT REDUCTION STANDARD]

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.43c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Standard for particulate matter.**

[Additional authority for this permit condition is also derived from Plan Approval/Operating Permit No. GP1-05-05006A]

- (a) [N/A - THE FUEL LINE HEATERS DO NOT FIRE COAL; THEY FIRE NATURAL GAS FUEL ONLY; ALSO, THEY EACH HAVE A HEAT INPUT CAPACITY LESS THAN 30 mmBTU/hr]
- (b) [N/A - THE FUEL LINE HEATERS DO NOT FIRE WOOD; THEY FIRE NATURAL GAS FUEL ONLY; ALSO, THEY EACH HAVE A HEAT INPUT CAPACITY LESS THAN 30 mmBTU/hr]
- (c) [N/A - THE FUEL LINE HEATERS DO NOT FIRE COAL, WOOD, OR OIL; THEY FIRE NATURAL GAS FUEL ONLY; ALSO, THEY EACH HAVE A HEAT INPUT CAPACITY LESS THAN 30 mmBTU/hr]
- (d) [N/A - THE FUEL LINE HEATERS FIRE NATURAL GAS FUEL ONLY; THEREFORE, THERE ARE NO APPLICABLE PM OR OPACITY STANDARDS]
- (e) [N/A - THE FUEL LINE HEATERS DO NOT FIRE COAL, WOOD, OR OIL; THEY FIRE NATURAL GAS FUEL ONLY; ALSO,

**SECTION E. Source Group Restrictions.**

THEY EACH HAVE A HEAT INPUT CAPACITY LESS THAN 30 mmBTU/hr]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.**# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]****Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

[Additional authority for this permit condition is also derived from Plan Approval/Operating Permit No. GP1-05-05006A]

(a) The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction and actual startup, as provided by 40 CFR §60.7. This notification shall include:

- (1) The design heat input capacity of the affected facility and identification of fuel(s) to be combusted in the affected facility.
- (2) [N/A - THERE IS NO FEDERALLY ENFORCEABLE REQUIREMENT LIMITING ANY FUEL LINE HEATER'S ANNUAL CAPACITY FACTOR FOR ANY FUEL(S) OR FUEL MIXTURES UNDER 40 CFR §§60.42c OR 60.43c]
- (3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.
- (4) [N/A - THE FUEL LINE HEATERS DO NOT EMPLOY AN EMERGING TECHNOLOGY FOR SO₂ EMISSIONS CONTROL]

[NOTIFICATION OF THE DATE OF CONSTRUCTION AND ACTUAL STARTUP, AS PROVIDED BY 40 CFR §60.7, WAS SUBMITTED TO THE DEPARTMENT VIA 10/14/13 E-MAIL; NOTIFICATION OF THE DATE OF CONSTRUCTION AND ACTUAL STARTUP, AS PROVIDED BY 40 CFR §60.7, WAS SUBMITTED TO U.S. EPA VIA 11/12/13 CORRESPONDENCE]

(b) [N/A - THE FUEL LINE HEATERS FIRE NATURAL GAS FUEL ONLY; THEREFORE, THERE ARE NO APPLICABLE 40 CFR §60.42c SO₂ EMISSION LIMITS OR 40 CFR §60.43c PM EMISSION OR OPACITY LIMITS; ALSO, THE FUEL LINE HEATERS DO NOT EMPLOY CEMS AND/OR COMS]

(c) [N/A - THE FUEL LINE HEATERS FIRE NATURAL GAS FUEL ONLY; THEREFORE, THERE IS NO APPLICABLE 40 CFR §60.43c OPACITY LIMITS]

(d) [N/A - THE FUEL LINE HEATERS FIRE NATURAL GAS FUEL ONLY; THEREFORE, THERE ARE NO APPLICABLE 40 CFR §60.42c SO₂ EMISSION LIMITS, FUEL OIL SULFUR LIMITS, OR SO₂ PERCENT REDUCTION REQUIREMENTS]

(e) [N/A - THE FUEL LINE HEATERS FIRE NATURAL GAS FUEL ONLY; THEREFORE, THERE ARE NO APPLICABLE 40 CFR §60.42c SO₂ EMISSION LIMITS, FUEL OIL SULFUR LIMITS, OR SO₂ PERCENT REDUCTION REQUIREMENTS]

(f) [N/A - THE FUEL LINE HEATERS FIRE NATURAL GAS FUEL ONLY; THEREFORE, THERE ARE NO APPLICABLE 40

**SECTION E. Source Group Restrictions.****CFR §60.42c FUEL OIL SULFUR LIMITS]**

(g)(1) Except as provided under 40 CFR §60.48c(g)(2) and (g)(3), below, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.

(2) As an alternative to meeting the requirements of 40 CFR §60.48c(g)(1), above, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in 40 CFR §60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

(3) As an alternative to meeting the requirements of 40 CFR §60.48c(g)(1), above, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to 40 CFR Part 60, Subpart Dc) at that property are natural gas, wood, distillate oil meeting the most current requirements in 40 CFR §60.42c to use fuel certification to demonstrate compliance with the SO₂ standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

[Compliance with the fuel usage recordkeeping requirement(s) specified in 40 CFR §60.48c(g), above, assures compliance with the fuel usage recordkeeping requirement specified in Condition No. 16(c) of P.A./O.P. No. GP1-05-05006A]

(h) [N/A - THE FUEL LINE HEATERS HAVE NO FEDERALLY ENFORCEABLE REQUIREMENT LIMITING THE ANNUAL CAPACITY FACTOR FOR ANY FUEL(S) OR FUEL MIXTURES UNDER 40 CFR §§60.42c OR 60.43c]

(i) All records required under this section [40 CFR §60.48c] shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.

(j) The reporting period for the reports required under 40 CFR Part 60, Subpart Dc, is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period. [i.e., THE REPORT FOR JANUARY 1 THROUGH JUNE 30 SHALL BE POSTMARKED BY JULY 30; THE REPORT FOR JULY 1 THROUGH DECEMBER 31 SHALL BE POSTMARKED BY JANUARY 30]

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

In the event that 40 CFR Part 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (NSPS Subpart Dc) is revised, the permittee shall comply with the revised version of NSPS Subpart Dc, and shall not be required to comply with any provisions in this operating permit designated as having NSPS Subpart Dc as their authority, to the extent that such operating permit provisions would be inconsistent with the applicable provisions of the revised NSPS Subpart Dc.

005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]**Subpart A - General Provisions
Address.**

[Additional authority for this permit condition is also derived from Plan Approval/Operating Permit No. GP1-05-05006A]

The Group 8 fuel line heaters are subject to 40 CFR Part 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. The permittee shall comply with all applicable standards, compliance provisions, performance test, monitoring, record keeping, and reporting requirements contained at 40 CFR §§60.40c through 60.48c, including all applicable portions of 40 CFR Part 60, Subpart A - General Provisions. The permittee shall comply with 40 CFR §60.4, which requires submission of copies of all requests, reports, applications, submittals, and other communications to both the U.S. Environmental Protection Agency (U.S. EPA) and the Department. The U.S. EPA copies

**SECTION E. Source Group Restrictions.**

shall be forwarded to:

Director
Air Protection Division
U.S. EPA, Region III (3AP00)
1650 Arch Street
Philadelphia, PA 19103-2029

The Department copies shall be forwarded to:

Regional Air Program Manager
PA Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.40c]
Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units
Applicability and delegation of authority.**

[Additional authority for this permit condition is also derived from Plan Approval/Operating Permit No. GP1-05-05006A]

(a) Except as provided in 40 CFR §60.40c(d), (e), (f), and (g), below, the affected facility to which 40 CFR Part 60, Subpart Dc applies is each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million British thermal units per hour (mmBTU/hr)) or less, but greater than or equal to 2.9 MW (10 mmBTU/hr).

(b) In delegating implementation and enforcement authority to a State under Section 111(c) of the Clean Air Act, 40 CFR §60.48c(a)(4) shall be retained by the Administrator and not transferred to a State.

(c) Steam generating units that meet the applicability requirements in 40 CFR §60.40c(a), above, are not subject to the sulfur dioxide (SO₂) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this 40 CFR Part 60, Subpart Dc (40 CFR §§60.42c, 60.43c, 60.44c, 60.45c, 60.46c, or 60.47c) during periods of combustion research, as defined in 40 CFR §60.41c.

(d) [N/A - THE FUEL LINE HEATERS ARE NOT EXISTING STEAM GENERATING UNITS]

(e) Affected facilities (i.e., heat recovery steam generators and fuel heaters) that are associated with stationary combustion turbines and meet the applicability requirements of 40 CFR Part 60, Subpart KKKK, are not subject to 40 CFR Part 60, Subpart Dc. 40 CFR Part 60, Subpart Dc, will continue to apply to all other heat recovery steam generators, fuel heaters, and other affected facilities that are capable of combusting more than or equal to 2.9 MW (10 mmBTU/hr) heat input of fossil fuel but less than or equal to 29 MW (100 mmBTU/hr) heat input of fossil fuel. If the heat recovery steam generator, fuel heater, or other affected facility is subject to 40 CFR Part 60, Subpart Dc, only emissions resulting from combustion of fuels in the steam generating unit are subject to 40 CFR Part 60, Subpart Dc. The stationary combustion turbine emissions are subject to 40 CFR Part 60, Subpart GG or KKKK, as applicable.

(f) [N/A - THE FUEL LINE HEATERS ARE NOT SUBJECT TO EITHER 40 CFR PART 60, SUBPART AAAA OR CCCC]

(g) [N/A - THE FUEL LINE HEATERS ARE NOT SUBJECT TO 40 CFR PART 60, SUBPART BBBB]

(h) [N/A - THE FUEL LINE HEATERS ARE NOT SUBJECT TO EITHER 40 CFR PART 60, SUBPART J OR Ja]

(i) [N/A - THE FUEL LINE HEATERS ARE NOT TEMPORARY STEAM GENERATING UNITS AS DEFINED IN 40 CFR §60.41c]

**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.41c]
Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units
Definitions.**

[Additional authority for this permit condition is also derived from Plan Approval/Operating Permit No. GP1-05-05006A]

Terms used in 40 CFR Part 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam

**SECTION E. Source Group Restrictions.**

Generating Units, as well as Section E, Group 8, are defined in the Clean Air Act; in 40 CFR §60.2 (General Provisions); and in 40 CFR §60.41c.

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

**SECTION E. Source Group Restrictions.**

Group Name: 009

Group Description: SOURCES PREVIOUSLY THE SUBJECT OF P.A./O.P. NO. GP1-05-05006A

Sources included in this group

| ID | Name |
|------|----------------------|
| HTR7 | STORAGE HEATER NO. 4 |
| HTR8 | STORAGE HEATER NO. 5 |

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §127.1]****Purpose.**

[Additional authority for this permit condition is also derived from Plan Approval/Operating Permit No. GP1-05-05006A]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission of CO into the outdoor atmosphere from each Group 009 fuel line heater in excess of 300 ppmvd (corrected to 3% oxygen).

002 [25 Pa. Code §127.1]**Purpose.**

[Additional authority for this permit condition is also derived from Plan Approval/Operating Permit No. GP1-05-05006A]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission of NO_x into the outdoor atmosphere from each Group 009 fuel line heater in excess of 30 ppmvd (corrected to 3% oxygen).

Fuel Restriction(s).**# 003 [25 Pa. Code §127.1]****Purpose.**

[Additional authority for this permit condition is also derived from Plan Approval/Operating Permit No. GP1-05-05006A]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall operate each Group 009 fuel line heater using natural gas fuel only.

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.**

[Additional authority for this permit condition is also derived from Plan Approval/Operating Permit No. GP1-05-05006A]

The permittee shall operate and maintain the necessary meter(s) to determine and to record the amount of fuel usage by each Group 009 fuel line heater.

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

[Additional authority for this permit condition is also derived from Plan Approval/Operating Permit No. GP1-05-05006A]

Each Group 009 fuel line heater shall be:

- (a) Operated in such a manner as not to cause air pollution;
- (b) Operated and maintained in a manner consistent with good operating and maintenance practices; and
- (c) Operated and maintained in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: 010

Group Description: Presumptive RACT 2 Requirements (25 Pa Code 129.96 - 129.100)

Sources included in this group

| ID | Name |
|-----|--|
| 031 | 2000 BHP, DRESSER CLARK TLA-6, UNIT 1, NO. 07201, SN 73778 |
| 032 | 2000 BHP, DRESSER CLARK TLA6, UNIT 2, NO. 07202, SN 73777 |
| 033 | 2728 BHP,SOLAR TURBINE T1001S2, UNIT 1, 07203, SN 0486S21 |
| 034 | 2728 BHP,SOLAR TURBINE T1001S2, UNIT 2, 07204, SN 0650S21 |
| 035 | 1340 BHP, SOLAR SATURN T1302 TURBINE #3, NO 07205 SN 0914S21 |
| G02 | EMERGENCY ENGINE (WAUKESHA VGF18GL) |

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.**# 001 [25 Pa. Code §129.96]****Applicability**

§ 129.96. Applicability.

(a) The NO_x requirements of this section and § § 129.97—129.100 apply Statewide to the owner and operator of a major NO_x emitting facility and the VOC requirements of this section and § § 129.97—129.100 apply Statewide to the owner and operator of a major VOC emitting facility that were in existence on or before July 20, 2012, for which a requirement or emission limitation, or both, has not been established in § § 129.51—129.52c, 129.54—129.69, 129.71—129.73, 129.75, 129.77, 129.101—129.107 and 129.301—129.310.

(b) The NO_x requirements of this section and § § 129.97—129.100 apply Statewide to the owner and operator of a NO_x emitting facility and the VOC requirements of this section and § § 129.97—129.100 apply Statewide to the owner and operator of a VOC emitting facility when the installation of a new source or a modification or change in operation of an existing source after July 20, 2012, results in the source or facility meeting the definition of a major NO_x emitting facility or a major VOC emitting facility and for which a requirement or an emission limitation, or both, has not been established in § § 129.51—129.52c, 129.54—129.69, 129.71—129.73, 129.75, 129.77, 129.101—129.107 and 129.301—129.310.

**SECTION E. Source Group Restrictions.**

(c) This section and § § 129.97—129.100 do not apply to the owner and operator of a NO_x air contamination source located at a major NO_x emitting facility that has the potential to emit less than 1 TPY of NO_x or a VOC air contamination source located at a major VOC emitting facility that has the potential to emit less than 1 TPY of VOC.

(d) [NA - FACILITY IS MAJOR FOR NOX AND VOC]

§ 129.97. Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

(a) The owner and operator of a source listed in one or more of subsections (b)—(h) located at a major NO_x emitting facility or major VOC emitting facility subject to § 129.96 (relating to applicability) shall comply with the applicable presumptive RACT requirement or RACT emission limitation, or both, beginning with the specified compliance date as follows, unless an alternative compliance schedule is submitted and approved under subsections (k)—(m) or § 129.99 (relating to alternative RACT proposal and petition for alternative compliance schedule):

(1) January 1, 2017, for a source subject to § 129.96(a).

(2) [NA – SOURCES IN THIS GROUP WERE IN EXISTENCE BEFORE 7/20/12]

(b) [NA – THE SOURCES IN THIS GROUP DO NOT MEET THE DEFINITION OF COMBUSTION UNITS]

(c) The owner and operator of a source specified in this subsection, which is located at a major NO_x emitting facility or major VOC emitting facility subject to § 129.96 shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices:

(1) – (7) [NA – THE SOURCES IN THIS GROUP DO NOT FIT THE LISTED CATEGORIES]

(8) An emergency standby engine operating less than 500 hours in a 12-month rolling period. [THIS APPLIES TO SOURCE ID G02]

(d) [NA – THE SOURCES IN THIS GROUP DO NOT MEET THE DEFINITION OF COMBUSTION UNITS]

(e) [NA – THE SOURCES IN THIS GROUP ARE NOT LANDFILLS]

(f) [NA – THE SOURCES IN THIS GROUP ARE NOT MWIs]

(g) Except as specified under subsection (c), the owner and operator of a NO_x air contamination source specified in this subsection, which is located at a major NO_x emitting facility or a VOC air contamination source specified in this subsection, which is located at a major VOC emitting facility subject to § 129.96 may not cause, allow or permit NO_x or VOCs to be emitted from the air contamination source in excess of the applicable presumptive RACT emission limitation:

(1) [NA – THE SOURCES IN THIS GROUP DO NOT FIT THE LISTED CATEGORIES]

(2) A combustion turbine:

(i) [NA – TURBINES IN THIS GROUP ARE NOT COMBINED CYCLE]

(iii) For a simple cycle or regenerative cycle combustion turbine with a rated output equal to or greater than 1,000 bhp and less than 6,000 bhp, [THIS APPLIES TO SOURCE IDs 033 & 034, WHICH HAS ISO RATING OF 1,160 HP EACH; SOURCE ID 035, WHICH HAS ISO RATING OF 1,418 HP] when firing:

(A) Natural gas or a noncommercial gaseous fuel, 150 ppmvd NO_x @ 15% oxygen.

(B) [NA – SOURCES IN THIS GROUP DO NOT FIRE FUEL OIL]

(C) Natural gas or a noncommercial gaseous fuel, 9 ppmvd VOC (as propane) @ 15% oxygen. [THIS APPLIES TO SOURCE ID 035]

**SECTION E. Source Group Restrictions.**

(D) [NA – SOURCES IN THIS GROUP DO NOT FIRE FUEL OIL]

(iv) [NA - NO SOURCES EQUAL OR GREATER THAN 6,000 BHP]

(3) A stationary internal combustion engine:

(i) For a lean burn stationary internal combustion engine with a rating equal to or greater than 500 bhp [THIS APPLIES TO SOURCE IDs 031 & 032, WHICH HAS ISO RATING OF 2,480 HP/EACH] 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.

(ii) [NA – ENGINES NOT DUAL FUEL OR LIQUID FUEL]

(iii) [NA – ENGINES ARE NOT RICH BURN]

(4) [NA – THE SOURCES IN THIS GROUP DO NOT FIT THE LISTED CATEGORIES]

(h) [NA – THE SOURCES IN THIS GROUP ARE NOT CEMENT KILNS]

(i) The requirements and emission limitations of this section supersede the requirements and emission limitations of a RACT permit issued to the owner or operator of an air contamination source subject to one or more of subsections (b)–(h) prior to April 23, 2016, under §§ 129.91–129.95 (relating to stationary sources of NO_x and VOCs) to control, reduce or minimize NO_x emissions or VOC emissions, or both, from the air contamination source unless the permit contains more stringent requirements or emission limitations, or both.

(j) [NA – THE SOURCES IN THIS GROUP DO NOT FIT THE LISTED CATEGORIES]

(k) - (m) [NA – THE SOURCES IN THIS GROUP CAN MEET PRESUMPTIVE RACT]

§ 129.98. Facility-wide or system-wide NO_x emissions averaging plan general requirements. [NA – SOURCES IN THIS GROUP ARE MEETING PRESUMPTIVE RACT]

§ 129.99. Alternative RACT proposal and petition for alternative compliance schedule. [NA – SOURCES IN THIS GROUP ARE MEETING PRESUMPTIVE RACT]

§ 129.100. Compliance demonstration and recordkeeping requirements.

(a) Except as provided in subsection (c), the owner and operator of an air contamination source subject to a NO_x requirement or RACT emission limitation or VOC 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) - (3) [NA – THE SOURCES IN THIS GROUP DO NOT HAVE CEMS]

(4) 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. [THIS APPLIES TO SOURCES 031, 032, 033, 034, AND 035; ADDITIONAL TESTING FOR THESE SOURCES IS ALSO REQUIRED ELSEWHERE IN THIS PERMIT]

(b) [INITIAL COMPLIANCE TESTING FOR ANY SOURCES IN THIS GROUP IS COMPLETE]

(c) [NO WAIVER GRANTED IN THIS CASE]

**SECTION E. Source Group Restrictions.**

(d) The owner and operator of an air contamination source subject to this section and § § 129.96—129.99 shall keep records to demonstrate compliance with § § 129.96—129.99 in the following manner:

(1) The records must include sufficient data and calculations to demonstrate that the requirements of § § 129.96—129.99 are met.

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

(e) Beginning with the compliance date specified in § 129.97(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable NO_x emission rate threshold specified in § 129.99(b) and the requirements of § 129.97 based on the air contamination source's potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.

(f) Beginning with the compliance date specified in § 129.97(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable VOC emission rate threshold specified in § 129.99(c) and the requirements of § 129.97 based on the air contamination source's potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.

(g) [NA – THE SOURCES IN THIS GROUP DO NOT MEET THE DEFINITION OF COMBUSTION UNITS]

(h) [NA – THE SOURCES IN THIS GROUP ARE NOT CEMENT KILNS]

(i) The records shall be retained by the owner or operator for 5 years and made available to the Department or appropriate approved local air pollution control agency upon receipt of a written request from the Department or appropriate approved local air pollution control agency.

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

**SECTION E. Source Group Restrictions.**

Group Name: 011

Group Description: Presumptive RACT 3 Requirements (25 Pa Code 129.111-129.115)

Sources included in this group

| ID | Name |
|------|--|
| 033 | 2728 BHP,SOLAR TURBINE T1001S2, UNIT 1, 07203, SN 0486S21 |
| 034 | 2728 BHP,SOLAR TURBINE T1001S2, UNIT 2, 07204, SN 0650S21 |
| 035 | 1340 BHP, SOLAR SATURN T1302 TURBINE #3, NO 07205 SN 0914S21 |
| 041 | AREA FUGITIVE EMISSIONS |
| G02 | EMERGENCY ENGINE (WAUKESHA VGF18GL) |
| HTR4 | STORAGE HEATER NO. 3 - HANOVER |
| HTR7 | STORAGE HEATER NO. 4 |
| HTR8 | STORAGE HEATER NO. 5 |

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.**# 001 [25 Pa. Code §129.111]****Applicability**

§ 129.111. Applicability.

(a) Except as specified in subsection (c), the NO_x requirements of this section and §§ 129.112—129.115 apply Statewide to the owner and operator of a major NO_x emitting facility that commenced operation on or before August 3, 2018, and the VOC requirements of this section and §§ 129.112—129.115 apply Statewide to the owner and operator of a major VOC emitting facility that commenced operation on or before August 3, 2018, for which a requirement or emission limitation, or both, has not been established in §§ 129.51, 129.52(a)—(k) and Table I categories 1—11, 129.52a—129.52e, 129.54—129.63a, 129.64—129.69, 129.71—129.75, 129.77 and 129.101—129.107. The owner or operator shall identify and list the sources and facilities subject to this subsection in the written notification required under § 129.115(a) (relating to written notification, compliance demonstration and recordkeeping and reporting requirements) as follows: [NOTE: NOTIFICATON WAS PROVIDED ON 12/19/22]

**SECTION E. Source Group Restrictions.**

(1) The sources and facilities that commenced operation on or before August 3, 2018, for which a requirement or emission limitation has not been established in §§ 129.51, 129.52(a)—(k) and Table I categories 1—11, 129.52a—129.52e, 129.54—129.63a, 129.64—129.69, 129.71—129.75, 129.77 and 129.101—129.107.

(2) The sources and facilities that commenced operation on or before August 3, 2018, and are subject to §§ 129.51, 129.52(a)—(k) and Table I categories 1—11, 129.52a—129.52e, 129.54—129.63a, 129.64—129.69, 129.71—129.75, 129.77 and 129.101—129.107.

(b) [NA – FACILITY WAS A MAJOR SOURCE OF NOX AND VOC PRIOR TO 8/3/18]

(c) Sections 129.112—129.114 do not apply to the owner and operator of a NO_x air contamination source that has the potential to emit less than 1 TPY of NO_x located at a major NO_x emitting facility subject to subsection (a) or (b) or a VOC air contamination source that has the potential to emit less than 1 TPY of VOC located at a major VOC emitting facility subject to subsection (a) or (b). The owner or operator shall identify and list these sources in the written notification required under § 129.115(a).

(d) [NA – FACILITY IS A MAJOR SOURCE OF NOX AND VOC]

(e) If the owner and operator of a facility that complied with subsection (d) meets the definition of a major NO_x emitting facility or a major VOC emitting facility after December 31, 2022, then the owner and operator shall comply with subsection (b).

§ 129.112. Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

(a) The owner and operator of a source listed in one or more of subsections (b)—(k) located at a major NO_x emitting facility or major VOC emitting facility subject to § 129.111 (relating to applicability) shall comply with the applicable presumptive RACT requirement or RACT emission limitation, or both, beginning with the specified compliance date as follows, unless an alternative compliance schedule is submitted and approved under subsections (n)—(p) or § 129.114 (relating to alternative RACT proposal and petition for alternative compliance schedule):

(1) January 1, 2023, for a source subject to § 129.111(a).

(2) [NA – FACILITY IS AN EXISTING MAJOR SOURCE OF NOX AND VOC]

(b) The owner and operator of a source listed in this subsection that is located at a major NO_x emitting facility or major VOC emitting facility subject to § 129.111 shall comply with the applicable presumptive RACT requirements in paragraph (1) and recordkeeping and reporting requirements in paragraph (2).

(1) The owner or operator of a:

(i) [NA – COMBUSTION UNITS ARE LESS THAN 20 MMBTU/HR]

(ii) [NA – NO OXYGEN TRIM SYSTEM]

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

(1) A NO_x air contamination source that has the potential to emit less than 5 TPY of NO_x.

(2) A VOC air contamination source that has the potential to emit less than 2.7 TPY of VOC.

(3) A natural gas compression and transmission facility fugitive VOC air contamination source that has the potential to emit less than 2.7 TPY of VOC. [APPLIES TO SOURCE ID 041]

(4) A boiler or other combustion source with an individual rated gross heat input less than 20 million Btu/ hour. [APPLIES TO SOURCE IDs HTR4, HTR7, HTR8]

**SECTION E. Source Group Restrictions.**

(5) [NA – TURBINES ARE > 1,000 BHP]

(6) A lean burn stationary internal combustion engine rated at less than 500 bhp (gross). [APPLIES TO SOURCE ID G02]

(7) [NA – ENGINE IS NOT RICH BURN]

(8) An incinerator, thermal oxidizer, catalytic oxidizer or flare used primarily for air pollution control. [APPLIES TO FLARE FL8]

(9) [NA – ANNUAL CAPACITY FACTOR NOT APPLICABLE]

(10) An emergency standby engine operating less than 500 hours in a 12-month rolling period. [APPLIES TO EMERGENCY ENGINE G02]

(11) [NA – NO ELECTRIC ARC FURNACE]

(d) Except as specified in subsection (c), the owner and operator of a combustion unit, brick kiln, cement kiln, lime kiln, glass melting furnace or combustion source located at a major VOC emitting facility subject to § 129.111 shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices for the control of the VOC emissions from the combustion unit, brick kiln, cement kiln, lime kiln, glass melting furnace or combustion source.

(e) [NA – NOT AN MSW LANDFILL]

(f) [NA – NOT AN MW COMBUSTOR]

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

(1) The owner or operator of:

(i) [NA – COMBUSTION UNITS < 50 MMBTU/HR]

(ii) [NA – NO DIESEL FIRED UNITS]

(iii) [NA – NO OIL-FIRED UNITS]

(iv) [NA – NO REFINERY GAS FIRED UNITS]

(v) [NA – NO COAL FIRED UNITS]

(vi) [NA – NOT A COAL-FIRED UNIT]

(vii) [NA – NOT A SOLID FUEL FIRED UNIT]

(2) The owner or operator of a:

(i) [NA – TURBINES ARE NOT COMBINED CYCLE]

(ii) [NA – TURBINES ARE NOT COMBINED CYCLE]

(iii) [NA – TURBINES ARE NOT COMBINED CYCLE]

(iv) Simple cycle or regenerative cycle combustion turbine with a rated output equal to or greater than 1,000 bhp and less

**SECTION E. Source Group Restrictions.**

than 4,100 bhp shall comply with the following presumptive RACT emission limitations as applicable:

- (A) 120 ppmvd NO_x @ 15% oxygen when firing natural gas or a noncommercial gaseous fuel.
- (B) 9 ppmvd VOC (as propane) @ 15% oxygen when firing natural gas or a noncommercial gaseous fuel.
- (C) [NA – NOT FIRED ON FUEL OIL]
- (D) [NA – NOT FIRED ON FUEL OIL]
- (v) [NA – TURBINES ARE < 4,100 BHP]

(3) The owner or operator of a:

- (i) [NA – ENGINE IS < 500 BHP]
- (ii) [NA – ENGINE IS < 3500 BHP]
- (iii) [NA – ENGINE IS < 500 BHP]
- (iv) [NA – ENGINE IS LEAN BURN]

(4) [NA – UNITS ARE NOT FIRED ON MULTIPLE FUELS]

(h) [NA – NOT A PORTLAND CEMENT KILN]

(i) [NA – NOT A GLASS FURNACE]

(j) [NA – NOT A LIME KILN]

(k) [NA – COMBUSTION UNITS ARE < 20 MMBTU/HR]

(l) The requirements and emission limitations of this section supersede the requirements and emission limitations of a RACT permit issued to the owner or operator of an air contamination source subject to one or more of subsections (b)–(k) prior to November 12, 2022, under §§ 129.91–129.95 (relating to stationary sources of NO_x and VOCs) or under §§ 129.96–129.100 (relating to additional RACT requirements for major sources of NO_x and VOCs) to control, reduce or minimize NO_x emissions or VOC emissions, or both, from the air contamination source unless the permit contains more stringent requirements or emission limitations, or both.

(m) The requirements and emission limitations of this section supersede the requirements and emission limitations of §§ 129.201–129.205, 129.301–129.310, 145.111–145.113 and 145.141–145.146 unless the requirements or emission limitations of §§ 129.201–129.205, §§ 129.301–129.310, §§ 145.111–145.113 or §§ 145.141–145.146 are more stringent.

(n) [NA – SOURCES CAN MEET PRESUMPTIVE RACT]

(o) [NA – SOURCES CAN MEET PRESUMPTIVE RACT]

(p) [NA – SOURCES CAN MEET PRESUMPTIVE RACT]

(q) [NA – SOURCES CAN MEET PRESUMPTIVE RACT]

§ 129.113. Facility-wide or system-wide NO_x emissions averaging plan general requirements.

[NA – NO_x AVERAGING PLAN NOT USED]

**SECTION E. Source Group Restrictions.**

§ 129.114. Alternative RACT proposal and petition for alternative compliance schedule.

[NA – GROUP 011 SOURCES MEET PRESUMPTIVE RACT]

§ 129.115. Written notification, compliance demonstration and recordkeeping and reporting requirements.

(a) The owner and operator of an air contamination source subject to this section and § 129.111 (relating to applicability) shall submit a notification, in writing or electronically, to the appropriate Regional Manager or the appropriate approved local air pollution control agency that proposes how the owner and operator intend to comply with the requirements of this section and §§ 129.111—129.114. [NOTE: NOTIFICATION WAS PROVIDED ON 12/19/22]

(1) The notification shall be submitted to the appropriate Regional Manager or appropriate approved local air pollution control agency as soon as possible but not later than:

(i) December 31, 2022, for a source subject to § 129.111(a).

(ii) [NA – FACILITY IS AN EXISTING MAJOR SOURCE OF NOX AND VOCS]

(2) This notification shall identify the air contamination sources in § 129.111(a) as one of the following:

(i) Subject to a RACT requirement or RACT emission limitation in §§ 129.112—129.114.

(ii) Exempted from §§ 129.112—129.114.

(3) The air contamination sources identified in § 129.111(b) as one of the following:

(i) Subject to a RACT requirement or RACT emission limitation in §§ 129.112—129.114.

(ii) Exempted from §§ 129.112—129.114.

(4) The air contamination sources identified in § 129.111(c) that have a potential to emit less than 1 TPY of NO_x located at a major NO_x emitting facility subject to § 129.111(a) or (b) or a VOC air contamination source that has the potential to emit less than 1 TPY of VOC located at a major VOC emitting facility subject to § 129.111(a) or (b).

(5) The following information for each air contamination source listed in paragraph (2):

(i) A description, including make, model and location, of each source.

(ii) The applicable RACT requirement or RACT emission limitation, or both, in §§ 129.112—129.114 for each source listed in accordance with paragraph (2)(i).

(iii) How the owner or operator shall comply with subparagraph (ii) for each source listed in subparagraph (i).

(iv) The reason why the source is exempt from the RACT requirements and RACT emission limitations in §§ 129.112—129.114 for each source listed in accordance with paragraph (2)(i).

(6) The following information for each air contamination source listed in paragraph (3):

(i) A description, including make, model and location, of each source.

(ii) The applicable RACT requirement or RACT emission limitation, or both, in §§ 129.112—129.114 for each source listed in paragraph (3)(i).

(iii) How the owner or operator shall comply with subparagraph (ii) for each source listed in subparagraph (i).

(iv) The reason why the source is exempt from the RACT requirements and RACT emission limitations in §§ 129.112—129.114 for each source listed in accordance with paragraph (3)(i).

**SECTION E. Source Group Restrictions.**

(7) The following information for each air contamination source listed in paragraph (4):

(i) A description, including make, model and location, of each source.

(ii) Information sufficient to demonstrate that the source has a potential to emit less than 1 TPY of NO_x or 1 TPY of VOC, as applicable.

(b) Except as specified in subsection (d), 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 § 129.112 (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) [NA – CEMS NOT USED]

(2) [NA – NOT A PORTLAND CEMENT KILN]

(3) [NA – NOT A MW COMBUSTOR]

(4) [NA – CEMS NOT USED]

(5) [NA – CEMS NOT USED]

(6) For an air contamination source without a CEMS, monitoring and testing in accordance with an emissions source test approved by the Department or appropriate approved local air pollution control agency that meets the requirements of Chapter 139, Subchapter A (relating to sampling and testing methods and procedures). The source test shall be conducted to demonstrate initial compliance and subsequently on a schedule set forth in the applicable permit. [NOTE: PETITION FOR EXEMPTION FROM INITIAL TESTING REQUIREMENTS WAS SUBMITTED ON 12/19/22 AND APPROVED BY THE DEPARTMENT. SUBSEQUENT TESTING SHALL BE CONDUCTED ONCE PER 5-YEAR PERIOD, UNLESS MORE FREQUENT TESTING IS REQUIRED ELSEWHERE IN THE PERMIT.]

(c) [NA – TURBINES ARE NOT COMBINED CYCLE]

(d) Except as specified in § 129.112(n) and § 129.114(l) (relating to alternative RACT proposal and petition for alternative compliance schedule), the owner and operator of an air contamination source subject to subsection (b) shall demonstrate compliance with the applicable RACT requirement or RACT emission limitation in accordance with the procedures in subsection (a) not later than:

(1) January 1, 2023, for a source subject to § 129.111(a) (relating to applicability).

(2) [NA – FACILITY IS AN EXISTING SOURCE OF NO_x AND VOCS]

(e) An owner or operator of an air contamination source subject to this section and §§ 129.111, 129.112 and 129.113 (relating to facility-wide or system-wide NO_x emissions averaging plan general requirements) may request a waiver from the requirement to demonstrate compliance with the applicable emission limitation listed in § 129.112 if the following requirements are met: [NOTE: PETITION FOR EXEMPTION FROM INITIAL TESTING REQUIREMENTS WAS SUBMITTED ON 12/19/22 AND APPROVED BY THE DEPARTMENT]

(1) The request for a waiver is submitted, in writing or electronically, to the Department or appropriate approved local air pollution control agency not later than:

(i) December 31, 2022, for a source subject to § 129.111(a).

(ii) [NA – FACILITY IS AN EXISTING SOURCE OF NO_x AND VOCS]

(2) The request for a waiver demonstrates that a Department-approved emissions source test was performed in accordance with the requirements of Chapter 139, Subchapter A on or after:

**SECTION E. Source Group Restrictions.**

(i) November 12, 2021, for a source subject to § 129.111(a).

(ii) [NA – FACILITY IS AN EXISTING SOURCE OF NOX AND VOCS]

(3) The request for a waiver demonstrates to the satisfaction of the Department or appropriate approved local air pollution control agency that the test results show that the source's rate of emissions is in compliance with the source's applicable NOx emission limitation or VOC emission limitation.

(4) The Department or appropriate approved local air pollution control agency approves, in writing, the request for a waiver.

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

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

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

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

(g) Beginning with the compliance date specified in § 129.112(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable NOx emission rate threshold specified in § 129.114(b) and the requirements of § 129.112 based on the air contamination source's potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.

(h) Beginning with the compliance date specified in § 129.112(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable VOC emission rate threshold specified in § 129.114(c) and the requirements of § 129.112 based on the air contamination source's potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.

(i) [NA – NOT SUBJECT TO 25 PA CODE 129.112(b)]

(j) [NA – NOT A PORTLAND CEMENT KILN]

(k) The records shall be retained by the owner or operator for 5 years and made available to the Department or appropriate approved local air pollution control agency upon receipt of a written request from the Department or appropriate approved local air pollution control agency.

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

**SECTION E. Source Group Restrictions.**

Group Name: 012

Group Description: Alternative RACT 3 Requirements (25 Pa. Code 129.114)

Sources included in this group

| ID | Name |
|-----|----------------------|
| 036 | DEHYDRATION UNIT 1 |
| 037 | DEHYDRATION UNIT 2 |
| FL8 | DEHY #1 AND #2 FLARE |

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.**# 001 [25 Pa. Code §129.114]****Alternative RACT proposal and petition for alternative compliance schedule**

The following constitutes a case-by-case RACT III determination for the Group 012 sources pursuant to 25 Pa. Code 129.114:

1. The enclosed flare shall control VOCs from the glycol dehydration units by at least 95%.
2. The enclosed flare shall be equipped with an automatic pilot ignition source using an auxiliary fuel (e.g. propane/natural gas). The presence of each the flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.
3. The enclosed flare shall always be operated with a flame present. The enclosed flare shall be equipped with an automatic shut-off mechanism designed to immediately stop the flow of gases if a flame-out occurs.
4. The permittee shall record the following information for each Group 012 source on a monthly basis, retain the records at the site and make them available to the Department upon its request:
 - (a) The operating hours of the flare and VOC, benzene and hazardous air pollutants (HAPs) emissions.
 - (b) Periods during which there was no pilot flame, if any.
 - (c) Records of the maintenance and/or repairs that had to be performed on the flare(s).

**SECTION E. Source Group Restrictions.**

5. The enclosed flare shall be operated at all times during Group 012 source operation and when regenerator still emissions are vented. Each Group 012 source shall be operated and maintained in accordance with the manufacturer's specifications.

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

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.



SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

NOTE: The capacities/throughputs listed in Section A are for informational use only and should not be used as enforceable limitations.

 #001: The following serves as a description of some of the Source IDs:

Source IDs 031, 032, 033, and 034 are the subject of RACT Operating Permit No. 05-2006.

Source IDs 033 and 034 were previously the subject of Operating Permit No. 05-328-001.

Source ID 035 was previously the subject of Plan Approval No. 05-05006C.

Source IDs 036, 037 and 038 were previously the subject of Operating Permit No. 05-399-007.

Source IDs 036, 037 and 038 were previously the subject of Plan Approval No. 05-05006B.

Source IDs HTR7 and HTR8 were previously the subject of Plan Approval/Operating Permit No. GP1-05-05006A.

#002: The following sources of minor significance have been exempted from testing, monitoring, record keeping, and reporting requirements:

(a) BLR7 -Boiler (heat input = 2.0 mmBTU/hr; NG-fired); BLR8-TEG DEHY #1/2 Boiler (heat input = 2.0 mmBTU/hr; NG-fired), BLR9 -TEG DEHY #2/3-Boiler (heat input = 2.0 mmBtu/hr, NG-fired)

(b) HTR9-Fuel Heater (heat input = 0.25 mmBTU/hr; NG-fired).

(c) A14-Brine Produced Fluids Tank (capacity 10,000 gallons).

(d) Glycol Tank Nos. A03 and A07 (capacity 2,500 gallons each).

(e) Lube Oil Tank No. A02 (capacity 5,000 gallons).

(f) Lube Oil Tank No. B01 (capacity 500 gallons).

(g) Pipeline Liquids Tank Nos. A04 and A05 (capacity 5,000 gallons each); Pipeline Liquids Tank No. A11 (capacity 2,750 gallons); Pipeline Liquids Tank Nos. B04 and B08 (capacity 8,000 gallons). Tanks have no emission applicability as long as the contents do not contain VOC with a vapor pressure greater than 1.5 psia (10.5 kilopascals).

(h) Used Oil Tank No. A06 (capacity 5,000 gallons).

(i) Used Oil Tank No. B07 (capacity 535 gallons).

(j) Basement Water Tank No. B02 (capacity 8,000 gallons).

(k) Alcohol/Water Mix Tank No. B06 (capacity 2,400 gallons).

(l) Methanol Tank Nos. A09 and A10 (capacity 5,000 gallons each; previously the subject of Operating Permit No. 05-312-005); Methanol Tank Nos. A12 and A13 (capacity 500 gallons each).

(m) FLLP9-Flare; rated power output capacity = 2.0 mmBtu/hr, NG-fired.

(n) FLLP8 (heat input 2.0 mmBTU/hr; regenerator vent control; NG-fired).

RFDs

- On 2/9/18: RFD # 6869 continued to operate an existing 10,000 gallon-capacity wastewater storage tank (A15) as well as the installation and operate a new 10,000 gallon-capacity wastewater storage tank (A16).

- On 11/13/14: RFD # 4808 to increase of the daily natural gas throughput of each of the three tri-ethylene glycol (TEG) dehydration

**SECTION H. Miscellaneous.**

units (Source IDs 036, 037, & 038) from 120 mmCF/day to 400 mmCF/day with an aggregate daily NG throughput of 400 mmCF/day for all three units.

#003: This Title V Operating Permit incorporates the requirements of Plan Approval No. 05-05006C (re: Source ID 035).



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