COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: September 30, 2024 Effective Date: October 1, 2024

Expiration Date: September 30, 2029

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: 28-05003

Federal Tax Id - Plant Code: 31-0802435-3

Owner Information

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

Plant Information

Plant: COLUMBIA GAS TRANS CORP/GREENCASTLE
Location: 28 Franklin County 28915 Montgomery Township
SIC Code: 4922 Trans. & Utilities - Natural Gas Transmission

Responsible Official

Name: STEPHEN CARROLL
Title: OPERATIONS MGR
Phone: (717) 387 - 6299 Email: Stephen_Carroll@tcenergy.com

Permit Contact Person

Name: KAYLA LEDERGERBER
Title: ENVIRONMENTAL ANALYST
Phone: (412) 266 - 6897 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
031	SATURN T1001 TURBINE /CENTRIF. COMPR. 16301	20.000	MCF/HR	NATURAL GAS
032	SATURN T1001 TURBINE /CENTRIF. COMPR. 16302	20.000	MCF/HR	NATURAL GAS
033	SATURN T1001 TURBINE /CENTRIF. COMPR. 16303	20.000	MCF/HR	NATURAL GAS
034	3830 BHP, CENTAUR T4002 TURBINE 16304, SN 3000000	75.000	MCF/HR	NATURAL GAS
035	PARTS WASHER, 16 GAL			
036	4700 BHP, CENTAUR 40-4700S TURBINE 16305, SN 5270	50.527	MMBTU/HR	
		49.536	MCF/HR	Natural Gas
F01	AREA FUGITIVE EMISSIONS			
G02	EMERGENCY ENGINE (WAUKESHA VGF24GL)	4.540	MMBTU/HR	
		4.450	MCF/HR	Natural Gas
FML01	FUEL MATERIAL, NATURAL GAS			
S01	STACK, UNIT 1			
S02	STACK, UNIT 2			
S03	STACK, UNIT 3			
S04	STACK, UNIT 4			
S05	STACK, UNIT 5			
SG2	STACK, EMERGENCY ENGINE (WAUKESHA VGF24GL)			
Z00	FUGITIVES, SOURCE ID 035			
Z01	FUGITIVES, SOURCE ID F01			

PERMIT MAPS

PERMIT MAPS


PROC
035
STAC
Z00
PROC
036
STAC
S05
FML
FML01
PROC
F01
STAC
Z01
PROC
G02
STAC
SG2
FML
FML01

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

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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.

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#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].

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#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.

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(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 NOx from a single source during the term of the permit and 5 tons of NOx 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

#020 [25 Pa. Code §§ 127.11a & 127.215]

Reactivation of Sources

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

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

#021 [25 Pa. Code §§ 121.9 & 127.216]

Circumvention

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

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

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

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

Submissions

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

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

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

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

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

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

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

Sampling, Testing and Monitoring Procedures

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

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

#024 [25 Pa. Code §§ 127.511 & 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.

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(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.

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#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 any fugitive air contaminant from a source other than the following:

(a) Construction or demolition of building or structure.

(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 material.

(f) Open burning operations.

(g) Sources and classes of sources other than those identified in above part (a) through (e), for which the operator has obtained a determination from the Department, in accordance with §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.

(2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air 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 the sources specified in Section C, Condition #001 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 a manner that the malodors are detectable outside the permitee'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 a manner that the opacity of the emission is either of the following:

(a) Equal to or greater than 20 percent for a period or periods aggregating more than three minutes in any one hour.

(b) Equal to or greater than 60 percent at any time.

 # 005 [25 Pa. Code §123.42]

Exceptions

The emission limitations of 25 Pa. Code §123.41 shall not apply when:

(a) The presence of uncombined water is the only reason for failure of the emission to meet the limitation.

(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.

SECTION C. Site Level Requirements

II. TESTING REQUIREMENTS.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Department reserves the right to require exhaust stack testing of sources as necessary during the permit term to verify emissions for the purposes including permit condition violations, emission fees or malfunctioning.

 # 007 [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 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 digital copy of each submittal shall be made to each of the following:

Regional Office: RA-epscstacktesting@pa.gov

Bureau of Air Quality: 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

SECTION C. Site Level Requirements

default.

 # 008 [25 Pa. Code §139.1]

Sampling facilities.

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

 # 009 [25 Pa. Code §139.11]

General requirements.

(a) As specified in §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 requested by the department.

(b) As specified in §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 test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum all of the following:

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

(2) The location of sampling ports.

(3) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage carbon monoxide, carbon dioxide and oxygen), static and barometric pressures.

(4) Sampling 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.

(5) Laboratory procedures and results.

(6) Calculated results.

III. MONITORING REQUIREMENTS.

 # 010 [25 Pa. Code §123.43]

Measuring techniques

Visible air contaminants may be measured using either of the following:

(a) A device approved by the Department and maintained to provide accurate opacity measurement.

(b) Observers, trained and certified in EPA Method 9, to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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 visible emissions and malodorous emissions as follows:

(a) Visible emissions in excess of opacity limits. Visible emissions may be measured according to the methods specified in this section. As an alternative, plant personnel who observe such emissions may report the incidence of visible emissions to the Department within two hours of each incident and make arrangements for a certified observer to verify the visible emissions.

(b) The presence of fugitive visible emissions beyond the plant property boundaries.

SECTION C. Site Level Requirements

(c) The presence of malodorous air contaminants beyond the plant property boundaries.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code §129.91]

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

(1) Number of hours of operations both on a monthly and yearly basis.

(2) Amount of fuel(s) consumed on both a monthly and calendar year basis.

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

(c) The permittee shall maintain a logbook for recording status of malodorous air contaminants, visible emissions and fugitive visible emission exceedences. The logbook shall also include the name of the company representative, the date and time the monitoring was conducted and wind direction.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

The permittee shall maintain records of weekly inspections conducted in accordance with this Section. At a minimum, these records shall include the following information:

(1) The name of the company representative conducting each inspection.

(2) The date and time of each inspection.

(3) The wind direction during each inspection.

(4) A description of the emissions and/or malodors observed and the actions taken to mitigate them.

The permittee shall maintain these records for a minimum of five years and shall make them available to Department representatives upon request.

V. REPORTING REQUIREMENTS.

 # 014 [25 Pa. Code §127.512]

Operating permit terms and conditions.

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

(a) 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. Telephone reports can be made to the Air Quality Program at 814.946.7290 during normal business hours, or to the Department's Emergency Hotline at any time. The Emergency Hotline phone number is changed/updated periodically. The current Emergency Hotline phone number can be found at https://www.dep.pa.gov/About/Regional/SouthcentralRegion/Pages/default.aspx. The permittee shall submit a written report of instances of such malfunctions to the Department within three (3) days of the telephone report.

SECTION C. Site Level Requirements

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

(c) Unless otherwise approved by DEP, all malfunctions shall be reported through the Department's Greenport PUP system available through: https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home

VI. WORK PRACTICE REQUIREMENTS.

 # 015 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

The permittee shall take all reasonable actions to prevent particulate matter from a source identified in Section C, Condition #001 from becoming airborne, as per §123.1(c). These actions shall include, but are not 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 earthmoving equipment, erosion by water, or other means.

VII. ADDITIONAL REQUIREMENTS.

 # 016 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Per Site Level Category VIII COMPLIANCE CERTIFICATION BELOW, as alternative to Section B Condition #022(b), forward the annual compliance certification report electronically to EPA, in lieu of the hard copy version, to the email address: R3_APD_Permits@epa.gov

 # 017 [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 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 and property.

(4) The emission cause damage to vegetation or property.

(5) The emissions are or may be deleterious to human or animal health.

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

(1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public official.

(2) Any 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.

SECTION C. Site Level Requirements

(5) A fire set solely for cooking food.

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

VIII. COMPLIANCE CERTIFICATION.

The permittee shall submit within thirty days of 01/01/2025 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.

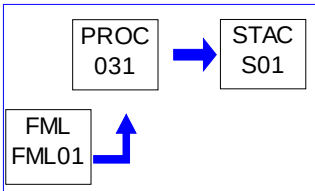
***** Permit Shield In Effect *****

SECTION D. Source Level Requirements

Source ID: 031 Source Name: SATURN T1001 TURBINE /CENTRIF. COMPR. 16301

Source Capacity/Throughput: 20.000 MCF/HR NATURAL GAS

Conditions for this source occur in the following groups: 01



I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

SECTION D. Source Level Requirements

Source ID: 032 Source Name: SATURN T1001 TURBINE /CENTRIF. COMPR. 16302

Source Capacity/Throughput: 20.000 MCF/HR NATURAL GAS

Conditions for this source occur in the following groups: 01

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

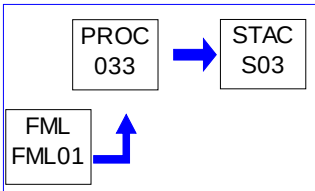
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 033 Source Name: SATURN T1001 TURBINE /CENTRIF. COMPR. 16303

Source Capacity/Throughput: 20.000 MCF/HR NATURAL GAS

Conditions for this source occur in the following groups: 01



I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

SECTION D. Source Level Requirements

Source ID: 034 Source Name: 3830 BHP, CENTAUR T4002 TURBINE 16304, SN 3000000

Source Capacity/Throughput: 75.000 MCF/HR NATURAL GAS

Conditions for this source occur in the following groups: 02
05
06

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 Source ID 034 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 §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code §129.91]

(a) The permittee shall not allow the NOx emissions from Source ID 034 in excess of 165 ppmdv corrected to 15 percent oxygen.

(b) The emission limit does not apply during the startup and shutdown of the gas turbines. Startup and shutdown periods are limited to a maximum of one hour each.

[This condition is superseded by 25 Pa Code 129.111-129.115 as contained in Source Group 006 of this permit which includes a NOx emission limit of 120 ppmvd corrected to 15% oxygen]

II. TESTING REQUIREMENTS.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall conduct stack testing for NOx emissions annually utilizing methodology outlined in 25 Pa. Code §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 the one submitted for the renewal of the Title V operating permit. The results of the test submitted with the the permit renewal application shall be reported in the following units:

(1) Concentration as measured in parts per million (ppm), and also the ppmvd (dry volume) corrected to 15 percent oxygen.

(2) Specific output in grams per horse power-hour (g/hp-hr).

(3) Total output in pounds per hour (lb/hr), and pounds per million btu heat input (lb/mmbtu).

 # 004 [25 Pa. Code §139.11]

General requirements.

(a) Once per permit term, but no later than 180-days prior to the expiration date of this permit, unless otherwise approved in writing by the Department, the permittee shall conduct three (3) runs of the following emissions tests of the Source ID 034 turbine pursuant to 25 Pa. Code Chapter 139 of the rules and regulations of the Department in order to demonstrate

SECTION D. Source Level Requirements

compliance with the NOx limit of Condition #002 above:

(1) 40 CFR Part 60, Appendix A, Method 7, 7A, 7E, or another Method approved by the Department - NOx emissions; report NOx emissions in units of ppmvd (corrected to 15% oxygen), g/bhp-hr, and lb/hr; NOx emissions shall be reported in terms of nitrogen dioxide (NO2).

(b) The emissions tests referenced in (a), above, shall be performed while the Source ID 034 turbine is operating within 10% of the 100% peak load or the highest achievable load, unless approved otherwise in writing by the Department.

[This streamlined stack testing condition shall also satisfy the NOx testing requirements of Section E Groups 05 & 06];

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.

 # 005 [25 Pa. Code §127.444]

Compliance requirements.

The permittee shall operate and maintain Source ID 034 in accordance with the manufacturer's specification.

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: PARTS WASHER, 16 GAL

Source Capacity/Throughput:

PROC 035 → STAC Z00

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §129.63]

Degreasing operations

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

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

(c) The requirement in above (b) does not apply:

(i) To cold cleaning machines used in extreme cleaning service.
(ii) If the owner or operator of the cold cleaning machine demonstrates, and the Department approves in writing, that compliance with this condition will result in unsafe operating conditions.
(iii) To immersion cold cleaning machines with a freeboard ratio equal to or greater than 0.75.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 002 [25 Pa. Code §129.63]

Degreasing operations

The permittee shall maintain for at least two (2) years and shall provide to the Department, on request, the following information:

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

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

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

An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

SECTION D. Source Level 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 §129.63]

Degreasing operations

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

 # 004 [25 Pa. Code §129.63]

Degreasing operations

For immersion cold cleaning machines and remote reservoir cold cleaning machines, the permittee shall:

Have a permanent, conspicuous label summarizing the operating requirements in Section D, Condition #004 above. In addition, the label shall include the following discretionary good operating practices:

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

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

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

VII. ADDITIONAL REQUIREMENTS.

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

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

SECTION D. Source Level Requirements

Source ID: 036 Source Name: 4700 BHP, CENTAUR 40-4700S TURBINE 16305, SN 5270

Source Capacity/Throughput: 50.527 MMBTU/HR
49.536 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 03
06

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 28-05003B]

(a) Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, the permittee shall not allow the emission of nitrogen oxides (NOx), carbon monoxide (CO), non-methane non-ethane hydrocarbon (NMNEHC), and total particulate matter (TPM) into the outdoor atmosphere from the Source ID 036 turbine in excess of the following limits:

(1) 25 ppmvd NOx at 15% O2;

(2) 25 ppmvd CO at 15% O2;

(3) 9 ppmvd NMNEHC at 15% O2 (measured as propane); and

(4) 0.03 lb TPM/mmBTU.

(b) The emission limitations specified in part (a), above, shall apply at all times except during the following periods:

(1) Periods of start-up and shutdown, provided that the duration of start-up and shut-down do not exceed thirty (30) minutes per occurrence; and

(2) Periods of operation in subzero ambient temperature conditions (i.e., less than 0°F).

[Compliance with the requirement(s) specified in part (a) of this streamlined permit condition assures compliance with the NOx emission limit specified in 40 CFR §60.4320(a), the NOx emission limit specified in 25 Pa. Code §129.112(g), and the PM emission limit specified in 25 Pa. Code §123.13(c)(1)(i)]

 # 002 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 28-05003B]

The permittee shall limit the Source ID 036 turbine's annual emissions to less than the following thresholds during any consecutive 12-month period:

(a) 20.1 tons per year (TPY) of NOx.
(b) 17.0 TPY of carbon monoxide (CO).
(c) 1.5 TPY of volatile organic compounds (VOC).
(d) 0.2 TPY of sulfur oxides (SOx).
(e) 4.5 TPY of PM-10 (particulate matter having an effective aerodynamic diameter less than or equal to a nominal 10 micron body).

SECTION D. Source Level Requirements

(f) 4.5 TPY of PM-2.5 (particulate matter having an effective aerodynamic diameter less than or equal to a nominal 2.5 micron body).
(g) 0.2 TPY of formaldehyde.
(h) 0.2 TPY of aggregate HAPs.
(i) 24,396 TPY of greenhouse gases (GHGs) expressed as carbon dioxide equivalent (CO2e).

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. 28-05003B]

The permittee shall operate the Source ID 036 turbine 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 Plan Approval No. 28-05003B as well as 25 Pa. Code §139.11]

(a) Once per permit term, but no later than 180-days prior to the expiration date of this permit, unless otherwise approved in writing by the Department, the permittee shall conduct three (3) runs of the following emissions tests of the Source ID 036 turbine pursuant to 25 Pa. Code Chapter 139 of the rules and regulations of the Department in order to demonstrate compliance with Condition #001, above:

(1) 40 CFR Part 60, Appendix A, Method 7, 7A, 7E, or another Method approved by the Department - NOx emissions; report NOx emissions in units of ppmvd (corrected to 15% oxygen), g/bhp-hr, and lb/hr; NOx emissions shall be reported in terms of nitrogen dioxide (NO2).

(2) 40 CFR Part 60, Appendix A, Method 10, or another Method approved by the Department - CO emissions; report CO emissions in units of ppmvd (corrected to 15% oxygen), g/bhp-hr, and lb/hr.

(3) 40 CFR Part 60, Appendix A, Methods 18 and 25A; 40 CFR Part 60, Appendix A, Method 25A, and 40 CFR Part 63, Appendix A, Method 320; or another Method approved by the Department - NMNEHC emissions; report NMNEHC emissions in units of ppmvd (corrected to 15% oxygen), g/bhp-hr, and lb/hr; NMNEHC emissions shall be reported in terms of propane.

(b) The emissions tests referenced in (a), above, shall be performed while the Source ID 036 turbine is operating within 10% of the 100% peak load or the highest achievable load, unless approved otherwise in writing by the Department.

[Compliance with this streamlined stack testing condition shall also satisfy the NOx testing requirements of Section E Group 06]

 # 005 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 28-05003B]

(a) Within 180 days after the start-up of the Source ID 036 turbine, and annually thereafter, the permittee shall develop and perform a leak detection and repair (LDAR) program and related inspection that includes either the use of an optical gas imaging camera such as a forward looking infrared (FLIR) camera or a gas leak detector capable of reading methane concentrations in air of 0% to 5% with an accuracy of +/- 0.2%. The permittee may request, in writing, the use of other leak detection monitoring devices that are approved, in writing, by the Department.

(b) The LDAR program inspections must be conducted on valves, flanges, connectors, storage vessels/storage tanks, and compressor seals in natural gas or hydrocarbon liquids service. A release from any equipment or component designed by the manufacturer to protect the equipment, controller(s), safety of personnel, to prevent ground water contamination, to

SECTION D. Source Level Requirements

prevent gas migration, or an emergency situation is not considered a leak. Leaks shall be repaired no later than 15 calendar days after leaks are detected unless facility shutdowns or ordering of replacement parts are necessary for repair of the leaks.

(c) The permittee must submit a written request to the Southcentral Regional Office's Air Quality Program Manager (mailing address: Department of Environmental Protection, Southcentral Regional Office, 909 Elmerton Avenue, Harrisburg, PA 17110-8200) for an extension of LDAR deadlines. This includes extensions required due to facility shutdowns and/or the ordering of replacement parts. The written request shall also include the reason(s) for the extension request and the schedule for completion of the repairs. The Department may grant an extension of the LDAR deadlines based upon the written request.

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

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

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

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

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

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

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

(f) The permittee shall, at a minimum frequency, perform monthly audible, visual, and olfactory (AVO) inspections.

 # 006 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 28-05003B]

(a) In addition to the performance testing required by Condition #004, above, every 2,500 hours of operation and no sooner than forty-five (45) days from the previous test, the permittee shall perform periodic monitoring for NOx and CO emissions to verify that the Source ID 036 turbine is in compliance with the NOx and CO emission limits of Condition #001(a), above. If a Department-approved performance test has been performed within 45 days prior to the scheduled periodic monitoring, this test may be used in lieu of the periodic monitoring for that time period. A portable gas analyzer may be used to satisfy the requirements of this condition by utilizing three (3) 20-minute test runs. The Department may alter the frequency of portable analyzer tests based on the results. The portable gas analyzer shall be maintained according to the manufacturer's specifications and the procedures specified in ASTM D 6522, or equivalent, as approved by the Department. The Department may also waive all or parts of this condition if the permittee demonstrates compliance, in lieu of testing, through alternate means satisfactory to the Department.

(b) Within thirty (30) calendar days after the completion of periodic monitoring, the permittee shall submit the results to the Southcentral Regional Office's Air Quality Program Manager (mailing address: Department of Environmental Protection, Southcentral Regional Office, 909 Elmerton Avenue, Harrisburg, PA 17110-8200). The Department reserves the right to require source tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests.

SECTION D. Source Level 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) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

 # 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. 28-05003B]

(a) The permittee shall maintain the following monthly records for the Source ID 036 turbine.

(1) Monthly fuel usage; and

(2) Monthly operating hours.

(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.

 # 008 [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. 28-05003B]

(a) The permittee shall calculate the monthly air emissions from the Source ID 036 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. The permittee shall maintain records of the monthly air emissions.

(b) The permittee shall calculate the cumulative facility air emissions for each consecutive 12-month period. The permittee shall maintain records of the cumulative Source ID 036 turbine air emissions for each consecutive 12-month period in order to demonstrate compliance with Condition #002, 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.

 # 009 [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. 28-05003B]

(a) The permittee shall maintain records of the results of the annual LDAR program inspections and the monthly AVO inspections referenced in Condition #005, above. The records shall include, at a minimum, the following information:

(1) The name of the company representative performing each inspection.

(2) The date and time of each inspection.

(3) A description of the leaks, repair methods and repair delays.

(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).

SECTION D. Source Level Requirements

VI. WORK PRACTICE REQUIREMENTS.

 # 010 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 28-05003B]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, the Source ID 036 turbine shall be:

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

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

VII. ADDITIONAL REQUIREMENTS.

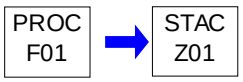
No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

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

SECTION D. Source Level Requirements

Source ID: F01 Source Name: AREA FUGITIVE EMISSIONS

Source Capacity/Throughput:



I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

 # 001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Source ID F01 consists of all the fugitive volatile organic compound emission sources at the facility. Actual emissions from the following equipment at the facility shall be limited as follows:

(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;

(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 Greencastle CS are limited to less than 2.7 tons per 12-month rolling period.

SECTION D. Source Level Requirements

(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 permitee 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 VGF24GL)

Source Capacity/Throughput: 4.540 MMBTU/HR
4.450 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 04
06

I. RESTRICTIONS.

Emission Restriction(s).

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

[Additional authority for this permit condition is also derived from Plan Approval No. 28-05003B as well as 25 Pa. Code §123.21]

The permittee shall not allow the emission into the outdoor atmosphere of sulfur oxides (SOx) from Source ID G02 in a manner that the concentration of the SOx (expressed as SO2) in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

[Additional authority for this permit condition is also derived from Plan Approval No. 28-05003B]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, the permittee shall not allow the emission into the outdoor atmosphere of total particulate matter (TPM) from Source ID G02 in a manner that the concentration of TPM in the effluent gas exceeds 0.02 grain per dry standard cubic foot.

[Compliance with the requirement(s) specified in this streamlined plan approval condition assures compliance with the PM emission limit specified in 25 Pa. Code §123.13(c)(1)(i)]

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. 28-05003B]

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.

[Additional authority for this permit condition is also derived from Plan Approval No. 28-05003B]

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).

SECTION D. Source Level 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) 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. 28-05003B]

(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.

[Additional authority for this permit condition is also derived from Plan Approval No. 28-05003B]

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code §127.1, the permittee shall construct, 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: 01

Group Description: Solar Saturn Gas Turbines Model T1001, gas fired, 1,265 hp

Sources included in this group

ID	Name
031	SATURN T1001 TURBINE /CENTRIF. COMPR. 16301
032	SATURN T1001 TURBINE /CENTRIF. COMPR. 16302
033	SATURN T1001 TURBINE /CENTRIF. COMPR. 16303

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 Source IDs 031 through 033 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 Source IDs 031 through 033 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 §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code §129.91]

(a) The permittee shall not allow the NOx emissions from any of the sources in this Group, in excess of 110 ppmdv corrected to 15 percent oxygen.

(b) The emission limit does not apply during the start-up and shut-down of the gas turbines. Start-up and shut-down periods are limited to a maximum of one hour each.

II. TESTING REQUIREMENTS.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Unless otherwise approved in writing by DEP, the permittee shall conduct a stack test of a representative Turbine to verify
compliance with the NOx emissions limits once per permit term, but no later than 180-days prior to the expiration date of the permit.

(b) Unless otherwise approved in writing by DEP, the performance test shall be conducted while the unit is operating within the 10 percent of 100 percent peak (or the highest achievable) source load.

(c) The results of this test shall be included in the permit renewal application, and shall be reported in the following units:

(1) Concentration as measured in parts per million (ppm), and also the ppm corrected to 15 percent oxygen.

(2) Specific output in gram per horse power-hour (g/hp-hr).

(3) Total output in pound per hour (lb/hr), and in pound per million btu heat input (lb /mmbtu).

III. MONITORING REQUIREMENTS.

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

SECTION E. Source Group Restrictions.

IV. RECORDKEEPING REQUIREMENTS.

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.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate and maintain the Source IDs 031 through 033 in accordance with the manufacturer's specifications, as per 25 Pa. Code §129.93(c)(1).

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

SECTION E. Source Group Restrictions.

Group Name: 02

Group Description: NSPS Subpart GG, Standards of Performance for Stationary Gas Turbines

Sources included in this group

ID	Name
034	3830 BHP, CENTAUR T4002 TURBINE 16304, SN 3000000

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 §127.441]

Operating permit terms and conditions.

The Group 2 turbine is 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:

United States Environmental Protection Agency
Region III, Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

Unless otherwise approved by DEP, the DEP copies shall be reported through the Department's Greenport PUP system available through: https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home

 # 002 [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.

SECTION E. Source Group Restrictions.

§ 60.330 Applicability and designation of affected facility.

(a) The provisions of this subpart 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 paragraph (a) of this section which commences construction, modification, or reconstruction after October 3, 1977, is subject to the requirements of this part except as provided in paragraphs (e) and (j) of § 60.332.

[44 FR 52798, Sept. 10, 1979, as amended at 52 FR 42434, Nov. 5, 1987; 65 FR 61759, Oct. 17, 2000]

60.332 Standard for nitrogen oxides.

(a) [NA – TURBINE IS EXEMPT FROM (a) AS PER (e)]

(b) [NA – TURBINE IS LESS THAN 100 MMBTU/HR]

(c) [NA – TURBINE IS EXEMPT FROM (a) AS PER (e)]

(d) [NA – TURBINE IS EXEMPT FROM (a) AS PER (e)]

(e) Stationary gas turbines with a heat input at peak load equal to or greater than 10.7 gigajoules per hour (10 million Btu/hour) but less than or equal to 107.2 gigajoules per hour (100 million Btu/hour) based on the lower heating value of the fuel fired and that have commenced construction prior to October 3, 1982 are exempt from paragraph (a) of this section.

(f) [NA – WATER AND STEAM INJECTION IS NOT USED]

(g) [NA – TURBINE IS NOT USED FOR EMERGENCY, MILITARY, OR FIRE FIGHTING]

(h) [NA – TURBINE IS NOT USED FOR RESEARCH AND DEVELOPMENT]

(i) [NA – TURBINE IS NOT LOCATED IN A MANDATORY WATER RESTRICTION AREA]

(j) [NA – TURBINE IS LESS THAN 100 MMBTU/HR]

(k) [NA – TURBINE DOES NOT USE AN EMERGENCY FUEL]

(l) [NA – TURBINE IS NOT REGENERATIVE]

[44 FR 52798, Sept. 10, 1979, as amended at 47 FR 3770, Jan. 27, 1982; 65 FR 61759, Oct. 17, 2000; 69 FR 41359, July 8, 2004]

§ 60.333 Standard for sulfur dioxide.

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

(a) No owner or operator subject to the provisions of this subpart 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 this subpart 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.

[44 FR 52798, Sept. 10, 1979, as amended at 69 FR 41360, July 8, 2004]

§ 60.334 Monitoring of operations.

(a) [NA – TURBINE DOES NOT USE WATER OR STEAM INJECTION]

(b) [NA – TURBINE DOES NOT USE WATER OR STEAM INJECTION]

(c) [NA – TURBINE DOES NOT USE CEMS]

(d) [NA – TURBINE WAS CONSTRUCTED BEFORE JULY 8, 2004]

(e) [NA – TURBINE WAS CONSTRUCTED BEFORE JULY 8, 2004]

(f) [NA – TURBINE WAS CONSTRUCTED BEFORE JULY 8, 2004]

(g) [NA – CONTINUOUS MONITORING IS NOT USED]

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

(1) [NA – PERMITTEE COMPLIES WITH (h)(3)]

(2) [NA – F-FACTOR OF ZERO IS USED]

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

(4) [NA – NO CUSTOM FUEL MONITORING SCHEDULE HAS BEEN APPROVED]

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

(1) [NA – TURBINES ARE NOT FIRED ON FUEL OIL]

(2) [NA – NITROGEN CONTENT MONITORING IS NOT REQUIRED AND PERMITTEE COMPLIES WITH (h)(3)(i) FOR SULFUR CONTENT MONITORING]

(3) [NA – CUSTOM SCHEDULE HAS NOT BEEN APPROVED]

(j) [NA – FACILITY IS NOT SUBJECT TO CONTINUOUS EMISSIONS MONITORING OR FUEL SAMPLING REQUIREMENTS]

[44 FR 52798, Sept. 10, 1979, as amended at 47 FR 3770, Jan. 27, 1982; 65 FR 61759, Oct. 17, 2000; 69 FR 41360, July 8, 2004; 71 FR 9457, Feb. 24, 2006]

§ 60.335 Test methods and procedures.

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

(1) EPA Method 20,

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(2) ASTM D6522–00 (incorporated by reference, see § 60.17), or

(3) EPA Method 7E and either EPA Method 3 or 3A in appendix A to this part, to determine NOX 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 paragraph (a)(4) of this section, the owner or operator may test at few points than are specified in Method 1 or Method 20 if the following conditions are met:

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

(A) [Reserved]

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

(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 NOX 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 NOX concentration during the stratification test; or

(B) If each of the individual traverse point NOX 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 paragraph (c) of this section.

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

(1) For each run of the performance test, the mean nitrogen oxides emission concentration (NOXo) 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 (HRSG) equipped with duct burners; and units equipped with add-on emission control devices:

[SEE REGULATION FOR EQUATION]

Where:

NOX = emission concentration of NOX at 15 percent O2 and ISO standard ambient conditions, ppm by volume, dry basis,

NOXo = mean observed NOX concentration, ppm by volume, dry basis, at 15 percent O2,

Pr = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure. Alternatively, you may use 760 mm Hg (29.92 in Hg),

Po = observed combustor inlet absolute pressure at test, mm Hg. Alternatively, you may use the barometric pressure for the date of the test,

Ho = observed humidity of ambient air, g H2O/g air,

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e = transcendental constant, 2.718, and

Ta = ambient temperature, °K.

(2) The 3-run performance test required by § 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 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 § 60.331).

(3) For a combined cycle turbine system with supplemental heat (duct burner), the owner or operator may elect to measure the turbine NOX emissions after the duct burner rather than directly after the turbine. If the owner or operator elects to use this alternative sampling location, the applicable NOX emission limit in § 60.332 for the combustion turbine must still be met.

(4) If water or steam injection is used to control NOX with no additional post-combustion NOX control and the owner or operator chooses to monitor the steam or water to fuel ratio in accordance with § 60.334(a), then that monitoring system must be operated concurrently with each EPA Method 20, ASTM D6522–00 (incorporated by reference, see § 60.17), or EPA Method 7E run and shall be used to determine the fuel consumption and the steam or water to fuel ratio necessary to comply with the applicable § 60.332 NOX emission limit.

(5) If the owner operator elects to claim an emission allowance for fuel bound nitrogen as described in § 60.332, then concurrently with each reference method run, a representative sample of the fuel used shall be collected and analyzed, following the applicable procedures described in § 60.335(b)(9). These data shall be used to determine the maximum fuel nitrogen content for which the established water (or steam) to fuel ratio will be valid.

(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 paragraph (b)(7) of this section) or as part of the initial performance test of the affected unit.

(7) If the owner or operator elects to install and certify a NOX CEMS under § 60.334(e), then the initial performance test required under § 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 NOX emission limit under § 60.332 and to provide the required reference method data for the RATA of the CEMS described under § 60.334(b).

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

(8) If the owner or operator elects under § 60.334(f) to monitor combustion parameters or parameters indicative of proper operation of NOX emission controls, the appropriate parameters shall be continuously monitored and recorded during each run of the initial performance test, to establish acceptable operating ranges, for purposes of the parameter monitoring plan for the affected unit, as specified in § 60.334(g).

(9) To determine the fuel bound nitrogen content of fuel being fired (if an emission allowance is claimed for fuel bound nitrogen), the owner or operator may use equipment and procedures meeting the requirements of:

(i) For liquid fuels, ASTM D2597–94 (Reapproved 1999), D6366–99, D4629–02, D5762–02 (all of which are incorporated by reference, see § 60.17); or

(ii) For gaseous fuels, shall use analytical methods and procedures that are accurate to within 5 percent of the instrument range and are approved by the Administrator.

(10) If the owner or operator is required under § 60.334(i)(1) or (3) to periodically determine the sulfur content of the fuel combusted in the turbine, a minimum of three fuel samples shall be collected during the performance test. Analyze the

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samples for the total sulfur content of the fuel using:

(i) For liquid fuels, ASTM D129–00, D2622–98, D4294–02, D1266–98, D5453–00 or D1552–01 (all of which are incorporated by reference, see § 60.17); or

(ii) For gaseous fuels, ASTM D1072–80, 90 (Reapproved 1994); D3246–81, 92, 96; D4468–85 (Reapproved 2000); or D6667–01 (all of which are incorporated by reference, see § 60.17). The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the prior approval of the Administrator.

(11) The fuel analyses required under paragraphs (b)(9) and (b)(10) of this section may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency.

(c) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

(1) Instead of using the equation in paragraph (b)(1) of this section, manufacturers may develop ambient condition correction factors to adjust the nitrogen oxides emission level measured by the performance test as provided in § 60.8 to ISO standard day conditions.

[69 FR 41363, July 8, 2004, as amended at 71 FR 9458, Feb. 24, 2006; 79 FR 11250, Feb. 27, 2014]

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

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Group Name: 03

Group Description: SOURCE SUBJECT TO NSPS SUBPART KKKK

Sources included in this group

ID	Name
036	4700 BHP, CENTAUR 40-4700S TURBINE 16305, SN 5270

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 §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from Plan Approval No. 28-05003B]

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

 # 002 [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. 28-05003B]

The Group 03 turbine is subject to 40 CFR Part 60, Subpart KKKK - Standards of Performance for Stationary Combustion Turbines. The permittee shall comply with all applicable standards, compliance provisions, performance test, monitoring, record keeping, and reporting requirements contained at 40 CFR §§60.4300 through 60.4420, 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:

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United States Environmental Protection Agency
Region III, Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

Unless otherwise approved by DEP, the DEP copies shall be reported through the Department's Greenport PUP system available through: https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home

 # 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4300]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What is the purpose of this subpart?

[Additional authority for this permit condition is also derived from Plan Approval No. 01-05003B]

§ 60.4300 What is the purpose of this subpart?

This subpart establishes emission standards and compliance schedules for the control of emissions from stationary combustion turbines that commenced construction, modification or reconstruction after February 18, 2005.

[71 FR 38497, July 6, 2006]

§ 60.4305 Does this subpart apply to my stationary combustion turbine?

(a) If you are the owner or operator of a stationary combustion turbine with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MMBtu) per hour, based on the higher heating value of the fuel, which commenced construction, modification, or reconstruction after February 18, 2005, your turbine is subject to this subpart. Only heat input to the combustion turbine should be included when determining whether or not this subpart is applicable to your turbine. Any additional heat input to associated heat recovery steam generators (HRSG) or duct burners should not be included when determining your peak heat input. However, this subpart does apply to emissions from any associated HRSG and duct burners.

(b) Stationary combustion turbines regulated under this subpart are exempt from the requirements of subpart GG of this part. Heat recovery steam generators and duct burners regulated under this subpart are exempted from the requirements of subparts Da, Db, and Dc of this part.

[71 FR 38497, July 6, 2006]

§ 60.4310 What types of operations are exempt from these standards of performance?

(a) [NA – TURBINE IS NON-EMERGENCY]

(b) [NA – TURBINES IS NOT USED FOR R&D]

(c) [NA – NOT SUBJECT TO SUBPART Da]

(d) [NA – NOT A TEST CELL/STAND]

[71 FR 38497, July 6, 2006]

§ 60.4315 What pollutants are regulated by this subpart?

The pollutants regulated by this subpart are nitrogen oxide (NOX) and sulfur dioxide (SO2).

[71 FR 38497, July 6, 2006]

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§ 60.4320 What emission limits must I meet for nitrogen oxides (NOX)?

(a) You must meet the emission limits for NOX specified in Table 1 to this subpart. [NOTE: FOR A NEW COMBUSTION TURBINE FIRING NATURAL GAS AND HAVING A HEAT INPUT AT PEAK LOAD (HIGHER HEATING VALUE) OF GREATER THAN 50 mmBTU/hr AND LESS THAN OR EQUAL TO 850 mmBTU/hr, THE NOx EMISSION STANDARD = 25 ppm @ 15% O2 or 150 ng/J of useful output (1.2 lb/MWh)]
[Compliance with the 25 ppm @ 15% O2 NOx BAT emission limit pursuant to 25 Pa. Code §127.1 and specified in Section D (Source ID 036), Condition #001(a)(1) assures compliance with this requirement.]

(b) [NA – ONLY ONE TURBINE]

[71 FR 38497, July 6, 2006]

§ 60.4325 What emission limits must I meet for NOX if my turbine burns both natural gas and distillate oil (or some other combination of fuels)?

[NA – TURBINE ONLY BURNS NATURAL GAS]

[71 FR 38497, July 6, 2006]

§ 60.4330 What emission limits must I meet for sulfur dioxide (SO2)

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

(1) You must not cause to be discharged into the atmosphere from the subject stationary combustion turbine any gases which contain SO2 in excess of 110 nanograms per Joule (ng/J) (0.90 pounds per megawatt-hour (lb/MWh)) gross output;

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

(3) [NA – TURBINE IS NOT FIRED ON BIOGAS]

(b) [NA – TURBINE IS LOCATED IN A CONTINENTAL AREA AND HAS ACCESS TO NATURAL GAS]

[71 FR 38497, July 6, 2006, as amended at 74 FR 11861, Mar. 20, 2009]

General Compliance Requirements

§ 60.4333 What are my general requirements for complying with this subpart?

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

(b) [NA – TURBINE DOES NOT USE HEAT RECOVERY]

Monitoring

§ 60.4335 How do I demonstrate compliance for NOX if I use water or steam injection?

[NA – TURBINE DOES NOT USE WATER/STEAM INJECTION TO CONTROL NOX]

§ 60.4340 How do I demonstrate continuous compliance for NOX if I do not use water or steam injection?

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(a) If you are not using water or steam injection to control NOX emissions, you must perform annual performance tests in accordance with § 60.4400 to demonstrate continuous compliance. If the NOX emission result from the performance test is less than or equal to 75 percent of the NOX emission limit for the turbine, you may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NOX emission limit for the turbine, you must resume annual performance tests.

(b) As an alternative, you may install, calibrate, maintain and operate one of the following continuous monitoring systems:

(1) [NA – TURBINE DOES NOT USE CEMS]

(2) Continuous parameter monitoring as follows:

(i) [NA – NOT A DIFFUSION FLAME TURBINE]

(ii) For any lean premix stationary combustion turbine, you must continuously monitor the appropriate parameters to determine whether the unit is operating in low-NOX mode.

(iii) [NA – TURBINE DOES NOT USE SCR]

(iv) [NA – TURBINE DOES NOT USE CEMS]

§ 60.4345 What are the requirements for the continuous emission monitoring system equipment, if I choose to use this option?

[NA – TURBINE DOES NOT USE CEMS]

§ 60.4350 How do I use data from the continuous emission monitoring equipment to identify excess emissions?

[NA – TURBINE DOES NOT USE CEMS]

§ 60.4355 How do I establish and document a proper parameter monitoring plan?

(a) The steam or water to fuel ratio or other parameters that are continuously monitored as described in §§ 60.4335 and 60.4340 must be monitored during the performance test required under § 60.8, to establish acceptable values and ranges. You may supplement the performance test data with engineering analyses, design specifications, manufacturer's recommendations and other relevant information to define the acceptable parametric ranges more precisely. You must develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the NOX emission controls. The plan must:

(1) Include the indicators to be monitored and show there is a significant relationship to emissions and proper operation of the NOX emission controls,

(2) Pick ranges (or designated conditions) of the indicators, or describe the process by which such range (or designated condition) will be established,

(3) Explain the process you will use to make certain that you obtain data that are representative of the emissions or parameters being monitored (such as detector location, installation specification if applicable),

(4) Describe quality assurance and control practices that are adequate to ensure the continuing validity of the data,

(5) Describe the frequency of monitoring and the data collection procedures which you will use (e.g., you are using a computerized data acquisition over a number of discrete data points with the average (or maximum value) being used for purposes of determining whether an exceedance has occurred), and

(6) Submit justification for the proposed elements of the monitoring. If a proposed performance specification differs from manufacturer recommendation, you must explain the reasons for the differences. You must submit the data supporting the

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justification, but you may refer to generally available sources of information used to support the justification. You may rely on engineering assessments and other data, provided you demonstrate factors which assure compliance or explain why performance testing is unnecessary to establish indicator ranges. When establishing indicator ranges, you may choose to simplify the process by treating the parameters as if they were correlated. Using this assumption, testing can be divided into two cases:

(i) All indicators are significant only on one end of range (e.g., for a thermal incinerator controlling volatile organic compounds (VOC) it is only important to insure a minimum temperature, not a maximum). In this case, you may conduct your study so that each parameter is at the significant limit of its range while you conduct your emissions testing. If the emissions tests show that the source is in compliance at the significant limit of each parameter, then as long as each parameter is within its limit, you are presumed to be in compliance.

(ii) Some or all indicators are significant on both ends of the range. In this case, you may conduct your study so that each parameter that is significant at both ends of its range assumes its extreme values in all possible combinations of the extreme values (either single or double) of all of the other parameters. For example, if there were only two parameters, A and B, and A had a range of values while B had only a minimum value, the combinations would be A high with B minimum and A low with B minimum. If both A and B had a range, the combinations would be A high and B high, A low and B low, A high and B low, A low and B high. For the case of four parameters all having a range, there are 16 possible combinations.

(b) [NA – TURBINE DOES NOT USE CEMS]

§ 60.4360 How do I determine the total sulfur content of the turbine's combustion fuel?

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

§ 60.4365 How can I be exempted from monitoring the total sulfur content of the fuel?

[NOTE: COLUMBIA GAS INTENDS TO COMPLY WITH 40 CFR §60.4365(a), ABOVE; THEREFORE, SULFUR CONTENT MONITORING IS NOT REQUIRED]

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

(a) The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the maximum total sulfur content for oil use in continental areas is 0.05 weight percent (500 ppmw) or less and 0.4 weight percent (4,000 ppmw) or less for noncontinental areas, the total sulfur content for natural gas use in continental areas is 20 grains of sulfur or less per 100 standard cubic feet and 140 grains of sulfur or less per 100 standard cubic feet for noncontinental areas, has potential sulfur emissions of less than less than 26 ng SO2/J (0.060 lb SO2/MMBtu) heat input for continental areas and has potential sulfur emissions of less than less than 180 ng SO2/J (0.42 lb SO2/MMBtu) heat input for noncontinental areas; or

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

§ 60.4370 How often must I determine the sulfur content of the fuel?

The frequency of determining the sulfur content of the fuel must be as follows:

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(a) [NA – TURBINE DOES NOT BURN FUEL OIL]

(b) Gaseous fuel. If you elect not to demonstrate sulfur content using options in § 60.4365, and the fuel is supplied without intermediate bulk storage, the sulfur content value of the gaseous fuel must be determined and recorded once per unit operating day. [NOTE: COLUMBIA GAS INTENDS TO COMPLY WITH 40 CFR §60.4365(a); THEREFORE, SULFUR CONTENT MONITORING IS NOT REQUIRED]

(c) Custom schedules. Notwithstanding the requirements of paragraph (b) of this section, operators or fuel vendors may develop custom schedules for determination of the total sulfur content of gaseous fuels, based on the design and operation of the affected facility and the characteristics of the fuel supply. Except as provided in paragraphs (c)(1) and (c)(2) of this section, custom schedules shall be substantiated with data and shall be approved by the Administrator before they can be used to comply with the standard in § 60.4330.

(1) The two custom sulfur monitoring schedules set forth in paragraphs (c)(1)(i) through (iv) and in paragraph (c)(2) of this section are acceptable, without prior Administrative approval:

(i) The owner or operator shall obtain daily total sulfur content measurements for 30 consecutive unit operating days, using the applicable methods specified in this subpart. Based on the results of the 30 daily samples, the required frequency for subsequent monitoring of the fuel's total sulfur content shall be as specified in paragraph (c)(1)(ii), (iii), or (iv) of this section, as applicable.

(ii) If none of the 30 daily measurements of the fuel's total sulfur content exceeds half the applicable standard, subsequent sulfur content monitoring may be performed at 12-month intervals. If any of the samples taken at 12-month intervals has a total sulfur content greater than half but less than the applicable limit, follow the procedures in paragraph (c)(1)(iii) of this section. If any measurement exceeds the applicable limit, follow the procedures in paragraph (c)(1)(iv) of this section.

(iii) If at least one of the 30 daily measurements of the fuel's total sulfur content is greater than half but less than the applicable limit, but none exceeds the applicable limit, then:

(A) Collect and analyze a sample every 30 days for 3 months. If any sulfur content measurement exceeds the applicable limit, follow the procedures in paragraph (c)(1)(iv) of this section. Otherwise, follow the procedures in paragraph (c)(1)(iii)(B) of this section.

(B) Begin monitoring at 6-month intervals for 12 months. If any sulfur content measurement exceeds the applicable limit, follow the procedures in paragraph (c)(1)(iv) of this section. Otherwise, follow the procedures in paragraph (c)(1)(iii)(C) of this section.

(C) Begin monitoring at 12-month intervals. If any sulfur content measurement exceeds the applicable limit, follow the procedures in paragraph (c)(1)(iv) of this section. Otherwise, continue to monitor at this frequency.

(iv) If a sulfur content measurement exceeds the applicable limit, immediately begin daily monitoring according to paragraph (c)(1)(i) of this section. Daily monitoring shall continue until 30 consecutive daily samples, each having a sulfur content no greater than the applicable limit, are obtained. At that point, the applicable procedures of paragraph (c)(1)(ii) or (iii) of this section shall be followed.

(2) The owner or operator may use the data collected from the 720-hour sulfur sampling demonstration described in section 2.3.6 of appendix D to part 75 of this chapter to determine a custom sulfur sampling schedule, as follows:

(i) If the maximum fuel sulfur content obtained from the 720 hourly samples does not exceed 20 grains/100 scf, no additional monitoring of the sulfur content of the gas is required, for the purposes of this subpart.

(ii) If the maximum fuel sulfur content obtained from any of the 720 hourly samples exceeds 20 grains/100 scf, but none of the sulfur content values (when converted to weight percent sulfur) exceeds half the applicable limit, then the minimum required sampling frequency shall be one sample at 12 month intervals.

(iii) If any sample result exceeds half the applicable limit, but none exceeds the applicable limit, follow the provisions of paragraph (c)(1)(iii) of this section.

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(iv) If the sulfur content of any of the 720 hourly samples exceeds the applicable limit, follow the provisions of paragraph (c)(1)(iv) of this section.

Reporting

§ 60.4375 What reports must I submit?

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

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

§ 60.4380 How are excess emissions and monitor downtime defined for NOX?

For the purpose of reports required under § 60.7(c), periods of excess emissions and monitor downtime that must be reported are defined as follows:

(a) [NA – TURBINE DOES NOT USE WATER/STEAM INJECTION]

(b) [NA – TURBINE DOES NOT USE CEMS]

(c) For turbines required to monitor combustion parameters or parameters that document proper operation of the NOX emission controls:

(1) An excess emission is a 4-hour rolling unit operating hour average in which any monitored parameter does not achieve the target value or is outside the acceptable range defined in the parameter monitoring plan for the unit.

(2) A period of monitor downtime is a unit operating hour in which any of the required parametric data are either not recorded or are invalid.

§ 60.4385 How are excess emissions and monitoring downtime defined for SO2?

If you choose the option to monitor the sulfur content of the fuel, excess emissions and monitoring downtime are defined as follows:

[NOTE: COLUMBIA GAS INTENDS TO COMPLY WITH 40 CFR §60.4365(a); THEREFORE, SULFUR CONTENT MONITORING IS NOT REQUIRED]

If you choose the option to monitor the sulfur content of the fuel, excess emissions and monitoring downtime are defined as follows:

(a) For samples of gaseous fuel and for oil samples obtained using daily sampling, flow proportional sampling, or sampling from the unit's storage tank, an excess emission occurs each unit operating hour included in the period beginning on the date and hour of any sample for which the sulfur content of the fuel being fired in the combustion turbine exceeds the applicable limit and ending on the date and hour that a subsequent sample is taken that demonstrates compliance with the sulfur limit.

(b) [NA – TURBINE DOES NOT BURN FUEL OIL]

(c) A period of monitor downtime begins when a required sample is not taken by its due date. A period of monitor downtime also begins on the date and hour of a required sample, if invalid results are obtained. The period of monitor downtime ends on the date and hour of the next valid sample.

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§ 60.4390 What are my reporting requirements if I operate an emergency combustion turbine or a research and development turbine?

[NA – NOT AN EMERGENCY OR R&D TURBINE]

§ 60.4395 When must I submit my reports?

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

Performance Tests

§ 60.4400 How do I conduct the initial and subsequent performance tests, regarding NOX?

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

[NOTE: THE INITIAL NOx PERFORMANCE TEST WAS CONDUCTED ON 11/19/14; THE PERFORMANCE TEST WAS APPROVED VIA A 4/21/15 REVIEW MEMO BY THE DEPARTMENT'S SOURCE TESTING SECTION]

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

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

Where:

E = NOX emission rate, in lb/MWh

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

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

Qstd = stack gas volumetric flow rate, in dscf/hr

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

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

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

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

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

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(A) [Reserved], or

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

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

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

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

(C) [NA – COMBUSTION TURBINE IS SUBJECT TO A NOx EMISSION STANDARD GREATER THAN 15 PPM @ 15% O2]

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

(1) [NA – TURBINE IS NOT FIRED ON FUEL OIL]

(2) [NA – TURBINE IS SIMPLE CYCLE]

(3) [NA - THE COMBUSTION TURBINE DOES NOT EMPLOY WATER OR STEAM INJECTION TECHNOLOGY]

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

(5) [NA – TURBINE DOES NOT USE CEMS]

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

§ 60.4405 How do I perform the initial performance test if I have chosen to install a NOX-diluent CEMS?

[NA – TURBINE DOES NOT USE CEMS]

§ 60.4410 How do I establish a valid parameter range if I have chosen to continuously monitor parameters?

[NA – TURBINE DOES NOT USE CEMS]

§ 60.4415 How do I conduct the initial and subsequent performance tests for sulfur?

NOTE: COLUMBIA GAS INTENDS TO COMPLY WITH 40 CFR §60.4365(a); THEREFORE, SULFUR CONTENT MONITORING & PERFORMANCE TESTING IS NOT REQUIRED]

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

(1) The use of a current, valid purchase contract, tariff sheet, or transportation contract for the fuel specifying the maximum

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total sulfur content of all fuels combusted in the affected facility. Alternately, the fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter may be used.

(2) Periodically determine the sulfur content of the fuel combusted in the turbine, a representative fuel sample may be collected either by an automatic sampling system or manually. For automatic sampling, follow ASTM D5287 (incorporated by reference, see § 60.17) for gaseous fuels or ASTM D4177 (incorporated by reference, see § 60.17) for liquid fuels. For manual sampling of gaseous fuels, follow API Manual of Petroleum Measurement Standards, Chapter 14, Section 1, GPA 2166, or ISO 10715 (all incorporated by reference, see § 60.17). For manual sampling of liquid fuels, follow GPA 2174 or the procedures for manual pipeline sampling in section 14 of ASTM D4057 (both incorporated by reference, see § 60.17). The fuel analyses of this section may be performed either by you, a service contractor retained by you, the fuel vendor, or any other qualified agency. Analyze the samples for the total sulfur content of the fuel using:

(i) [NA – TURBINE DOES NOT FIRE ON FUEL OIL]

(ii) For gaseous fuels, ASTM D1072, or alternatively D3246, D4084, D4468, D4810, D6228, D6667, or GPA 2140, 2261, or 2377 (all incorporated by reference, see § 60.17).

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

Where:

E = SO2 emission rate, in lb/MWh

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

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

Qstd = stack gas volumetric flow rate, in dscf/hr

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

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

(b) [Reserved]

[71 FR 38497, July 6, 2006, as amended at 85 FR 63410, Oct. 7, 2020]

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

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Group Name: 04

Group Description: SOURCE SUBJECT TO NSPS SUBPART JJJJ

Sources included in this group

ID	Name
G02	EMERGENCY ENGINE (WAUKESHA VGF24GL)

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 [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?

§ 60.4230 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 IS A LEAN BURN ENGINE HAVING A MAXIMUM ENGINE POWER GREATER THAN OR EQUAL TO 500

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HP AND LESS THAN 1,350 HP]

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

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

(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 1048 and 1054, 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) [N/A - THE SI ICE IS NOT A TEMPORARY REPLACEMENT UNIT]

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37972, June 28, 2011; 86 FR 34360, June 29, 2021]

Emission Standards for Manufacturers

§ 60.4231 What emission standards must I meet if I am a manufacturer of stationary SI internal combustion engines or equipment containing such engines? [NA – NOT AN ENGINE MANUFACTURER]

§ 60.4232 How long must my engines meet the emission standards if I am a manufacturer of stationary SI internal combustion engines? [NA – NOT AN ENGINE MANUFACTURER]

Emission Standards for Owners and Operators

§ 60.4233 What emission standards must I meet if I am an owner or operator of a stationary SI internal combustion engine?

(a) [N/A - THE SI ICE HAS A MAXIMUM ENGINE POWER GREATER THAN 19 KW (25 HP)]

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

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

(d) [N/A - THE SI ICE HAS A MAXIMUM ENGINE POWER GREATER THAN OR EQUAL TO 75 KW (100 HP)]

(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)

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standard for which the engine was certified.

* [NOTE: 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]]

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

(g) [N/A - THE FUEL USED WILL BE PIPELINE QUALITY NATURAL GAS; NOT WELLHEAD NATURAL GAS]

(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]

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37973, June 28, 2011]

§ 60.4234 How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion engine?

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

[73 FR 3591, Jan. 18, 2008, as amended at 85 FR 78463, Dec. 4, 2020]

Other Requirements for Owners and Operators

§ 60.4235 What fuel requirements must I meet if I am an owner or operator of a stationary SI gasoline fired internal combustion engine subject to this subpart?

Owners and operators of stationary SI ICE subject to this subpart that use gasoline must use gasoline that meets the per gallon sulfur limit in 40 CFR 1090.205.

[73 FR 3591, Jan. 18, 2008, as amended at 85 FR 78463, Dec. 4, 2020]

§ 60.4236 What is the deadline for importing or installing stationary SI ICE produced in previous model years?

(a) After July 1, 2010, owners and operators may not install stationary SI ICE with a maximum engine power of less than 500 HP that do not meet the applicable requirements in § 60.4233.

(b) After July 1, 2009, owners and operators may not install stationary SI ICE with a maximum engine power of greater than or equal to 500 HP that do not meet the applicable requirements in § 60.4233, except that lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP that do not meet the applicable requirements in § 60.4233 may not be installed after January 1, 2010.

(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 § 60.4233 after January 1, 2011.

(d) In addition to the requirements specified in §§ 60.4231 and 60.4233, it is prohibited to import stationary SI ICE less than or equal to 19 KW (25 HP), stationary rich burn LPG SI ICE, and stationary gasoline SI ICE that do not meet the applicable requirements specified in paragraphs (a), (b), and (c) of this section, after the date specified in paragraph (a), (b), and (c) of this section.

(e) The requirements of this section do not apply to owners and operators of stationary SI ICE that have been modified or reconstructed, and they do not apply to engines that were removed from one existing location and reinstalled at a new location.

§ 60.4237 What are the monitoring requirements if I am an owner or operator of an emergency stationary SI internal

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combustion engine?

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

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

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

Compliance Requirements for Manufacturers

§ 60.4238 What are my compliance requirements if I am a manufacturer of stationary SI internal combustion engines =19 KW (25 HP) or a manufacturer of equipment containing such engines? [NA – NOT AN ENGINE MANUFACTURER]

§ 60.4239 What are my compliance requirements if I am a manufacturer of stationary SI internal combustion engines >19 KW (25 HP) that use gasoline or a manufacturer of equipment containing such engines? [NA – NOT AN ENGINE MANUFACTURER]

§ 60.4240 What are my compliance requirements if I am a manufacturer of stationary SI internal combustion engines >19 KW (25 HP) that are rich burn engines that use LPG or a manufacturer of equipment containing such engines? [NA – NOT AN ENGINE MANUFACTURER]

§ 60.4241 What are my compliance requirements if I am a manufacturer of stationary SI internal combustion engines participating in the voluntary certification program or a manufacturer of equipment containing such engines? [NA – NOT AN ENGINE MANUFACTURER]

§ 60.4242 What other requirements must I meet if I am a manufacturer of stationary SI internal combustion engines or equipment containing stationary SI internal combustion engines or a manufacturer of equipment containing such engines? [NA – NOT AN ENGINE MANUFACTURER]

Compliance Requirements for Owners and Operators

§ 60.4243 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) [N/A - THE SI ICE HAS A MAXIMUM ENGINE POWER GREATER THAN 500 HP]

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

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(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, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR §60.4243(d)(1) through (3), is prohibited. If you do not operate the engine according to the requirements in 40 CFR §60.4243(d)(1) through (3), 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) There is no time limit on the use of emergency stationary ICE in emergency situations.

(2) You may operate your emergency stationary ICE for the purpose specified in paragraph (d)(2)(i) of this section 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) [Reserved]

(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 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, 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

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

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

(h) [N/A - THE SI ICE IS NOT MANUFACTURED AFTER JULY 1, 2007 AND BEFORE JULY 1, 2008; ALSO, IT DOES NOT FIRE GASOLINE OR LPG; THEREFORE, THE EMISSION STANDARDS SPECIFIED IN 40 CFR §60.4233(b) OR (c) ARE NOT APPLICABLE]

(i) [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]

[73 FR 3591preview citation details, Jan. 18, 2008, as amended at 76 FR 37974, June 28, 2011; 78 FR 6697, Jan. 30, 2013; 86 FR 34362, June 29, 2021; 87 FR 48606, Aug. 10, 2022]

Testing Requirements for Owners and Operators

§ 60.4244 What test methods and other procedures must I use if I am an owner or operator of a stationary SI internal combustion engine? [INCORPORATED BY REFERENCE]

Notification, Reports, and Records for Owners and Operators

§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 A NON-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.

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

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

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(2) The address of the affected source;

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

(4) Emission control equipment; and

(5) Fuel used.

[NOTE: THE PERMITTEE SUBMITTED AN INITIAL NOTIFICATION TO BOTH U.S. EPA AND THE DEPARTMENT VIA A LETTER DATED APRIL 14, 2014]

(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 for purpose specified in §60.4243(d)(3)(i), you must submit an annual report according to the requirements in paragraphs (e)(1) through (3) of this section.

(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) - (vi) [Reserved]

(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; 86 FR 34362, June 29, 2021; 87 FR 48606, Aug. 10, 2022]

General Provisions

§ 60.4246 What General Provisions and confidential information provisions apply to me?

(a) Table 3 to this subpart shows which parts of the General Provisions in §§ 60.1 through 60.19 apply to you.

(b) The provisions of 40 CFR 1068.10 and 1068.11 apply for engine manufacturers. For others, the general confidential business information (CBI) provisions apply as described in 40 CFR part 2.

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[88 FR 4471, Jan. 24, 2023]

Mobile Source Provisions

§ 60.4247 What parts of the mobile source provisions apply to me if I am a manufacturer of stationary SI internal combustion engines or a manufacturer of equipment containing such engines? [NA – NOT AN ENGINE MANUFACTURER]

Definitions

§ 60.4248 What definitions apply to this subpart? [INCORPORATED BY REFERENCE]

Regulatory Changes

The Group 04 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:

United States Environmental Protection Agency
Region III, Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

Unless otherwise approved by DEP, the DEP copies shall be reported through the Department's Greenport PUP system available through: https://greenport.pa.gov/ePermitPublicAccess/PublicSubmission/Home

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.

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

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Group Name: 05

Group Description: RACT 2 Requirements (25 Pa Code 129.96 - 129.100)

Sources included in this group

ID	Name
034	3830 BHP, CENTAUR T4002 TURBINE 16304, SN 3000000

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 NOx requirements of this section and §§ 129.97—129.100 apply Statewide to the owner and operator of a major NOx 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—129.63, 129.64—129.69, 129.71—129.75, 129.77, 129.101—129.107 and 129.301—129.310.

(b) [NA – FACILITY IS ALREADY MAJOR FOR NOX]

(c) This section and §§ 129.97—129.100 do not apply to the owner and operator of a NOx air contamination source located at a major NOx emitting facility that has the potential to emit less than 1 TPY of NOx 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 ALREADY MAJOR FOR NOX]

§ 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 NOx emitting

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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 – SOURCE IS EXISTING]

(b) [NA – SOURCE ARE TURBINES]

(c) The owner and operator of a source specified in this subsection, which is located at a major NOx 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) A NOx air contamination source that has the potential to emit less than 5 TPY of NOx.

(2) A VOC air contamination source that has the potential to emit less than 2.7 TPY of VOC.

(3) [NA – HEAT INPUT MORE THAN 20 MM BTU/HR]

(4) [NA – TURBINES RATED OUTPUT MORE THAN 1,000 BHP]

(5) [NA – INTERNAL COMBUSTION ENGINE RATE MORE THAN 500 BHP (GROSS)]

(6) [NA – NO INCINERATOR, THERMAL OXIDIZER OR CATALYTIC OXIDIZER USED PRIMARY FOR AIR POLLUTION CONTROL]

(7) [NA – CAPACITY FACTOR NOT USED]

(8) An emergency standby engine operating less than 500 hours in a 12-month rolling period.

(d) [NA – FACILITY IS NOT MAJOR FOR VOC]

(e) [NA – NOT A LANDFILL]

(f) [NA – NOT A MWI]

(g) Except as specified under subsection (c), the owner and operator of a NOx air contamination source specified in this subsection, which is located at a major NOx 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 NOx or VOCs to be emitted from the air contamination source in excess of the applicable presumptive RACT emission limitation:

(1) [NA – NO COMBUSTION UNITS OR PROCESS HEATERS]

(2) A combustion turbine:

(i) – (ii) [NA- NO COMBINED CYCLE TURBINES]

(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 when firing:

(A) Natural gas or a noncommercial gaseous fuel, 150 ppmvd NOx @ 15% oxygen. [THIS APPLIES TO 034]

(B) [NA – UNITS DO NOT FIRE FUEL OIL]

(C) [NA- NOT MAJOR SOURCE OF VOC]

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(D) [NA – UNITS DO NOT FIRE FUEL OIL]

(iv) [NA – UNITS < 6,000 BHP]

(3) [NA – NO NON-EMERGENCY ENGINES]

(4) [NA – NO UNITS FIRING MULTIPLE FUELS]

(h) [NA – NO 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 NOx and VOCs) to control, reduce or minimize NOx emissions or VOC emissions, or both, from the air contamination source unless the permit contains more stringent requirements or emission limitations, or both.

(j) The requirements and emission limitations of this section supersede the requirements and emission limitations of § § 129.201—129.205, 145.111—145.113 and 145.141—145.146 (relating to additional NOx requirements; emissions of NOx from stationary internal combustion engines; and emissions of NOx from cement manufacturing) unless the requirements or emission limitations of § § 129.201—129.205, § § 145.111—145.113 or § § 145.141—145.146 are more stringent.

(k) – (m) [NA- KILN CAN MEET PRESUMPTIVE RACT]

§ 129.98. [NA – NO AVERAGING PLAN]

§ 129.99. [NA – NO ALTERNATIVE RACT OR COMPLIANCE SCHEDULE]

§ 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 NOx RACT requirement or RACT emission limitation or VOC RACT requirement or RACT emission limitation, or both, listed in § 129.97 (relating to presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule) shall demonstrate compliance with the applicable RACT requirement or RACT emission limitation by performing the following monitoring or testing procedures:

(1) [NA – NO CEMS]

(2) [NA – NO CEMENT KILNS]

(3) [NA – NO MWI]

(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.

(b) Except as provided in § 129.97(k) and § 129.99(i) (relating to alternative RACT proposal and petition for alternative compliance schedule), the owner and operator of an air contamination source subject to subsection (a) 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, 2017, for a source subject to § 129.96(a) (relating to applicability).

(2) [NA – SOURCES ARE EXISTING]

(c) [NA – NO WAIVER REQUESTED]

(d) The owner and operator of an air contamination source subject to this section and § § 129.96—129.99 shall keep

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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 NOx 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 – NOT SUBJECT TO § 129.97(b)]

(h) [NA – NO CEMENT KILN]

(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: 06

Group Description: RACT 3 Requirements (25 Pa Code 129.111-129.115)

Sources included in this group

ID	Name
034	3830 BHP, CENTAUR T4002 TURBINE 16304, SN 3000000
036	4700 BHP, CENTAUR 40-4700S TURBINE 16305, SN 5270
G02	EMERGENCY ENGINE (WAUKESHA VGF24GL)

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 NOx requirements of this section and § § 129.112—129.115 apply Statewide to the owner and operator of a major NOx 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:

(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.

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(b) [NA – FACILITY IS AN EXISTING MAJOR SOURCE OF NOx]

(c) Sections 129.112—129.114 do not apply to the owner and operator of a NOx air contamination source that has the potential to emit less than 1 TPY of NOx located at a major NOx 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). [APPLIES TO MISC LINE HEATER AND SPACE HEATERS]

(d) [NA – FACILITY IS A MAJOR SOURCE OF NOx]

(e) [NA – FACILITY IS NOT SUBJECT TO 129.111(d)]

§ 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 NOx 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 – NOT SUBJECT TO 129.111(b)]

(b) The owner and operator of a source listed in this subsection that is located at a major NOx emitting facility or major VOC emitting facility subject to § 129.111 shall 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]

(2) The applicable recordkeeping and reporting requirements of § 129.115(f) and (i) (relating to written notification, compliance demonstration and recordkeeping and reporting requirements).

(3) Compliance with the applicable presumptive RACT requirements in paragraph (1) and recordkeeping and reporting requirements in paragraph (2) assures compliance with the provisions in § § 129.93(b)(2), (3), (4) and (5) and 129.97(b)(1), (2) and (3) (relating to presumptive RACT emissions limitations; and presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule).

(c) The owner and operator of a source listed in this subsection that is located at a major NOx emitting facility or major VOC emitting facility subject to § 129.111 shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices:

(1) A NOx air contamination source that has the potential to emit less than 5 TPY of NOx.

(2) [NA – NOT A MAJOR SOURCE OF VOCs]

(3) [NA – NOT A MAJOR SOURCE OF VOCs]

(4) [NA – HEATERS ARE EXEMPT AS PER 129.111(c)]

(5) [NA – TURBINES ARE RATED ABOVE 1000 HP]

(6) [NA – EMERGENCY ENGINE IS RATED ABOVE 500 HP]

(7) [NA – EMERGENCY ENGINE IS RATED ABOVE 100 HP]

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(8) [NA – NO FLARE, THERMAL OXIDIZER OR INCINERATOR]

(9) [NA – ANNUAL CAPACITY FACTOR NOT RELEVANT]

(10) An emergency standby engine operating less than 500 hours in a 12-month rolling period. [APPLIES TO SOURCE ID G02]

(11) [NA – NO ELECTRIC ARC FURNACE]

(d) [NA – NOT A MAJOR SOURCE OF VOCs]

(e) [NA – NOT AN MSW LANDFILL]

(f) [NA – NO MW COMBUSTOR]

(g) Except as specified in subsection (c), the owner and operator of a NOx air contamination source listed in this subsection that is located at a major NOx 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 NOx 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) [NA – COMBUSTION UNITS ARE LESS THAN 50 MMBTU/HR]

(2) The owner or operator of a:

(i) [NA – TURBINES ARE SIMPLE CYCLE]

(ii) [NA – TURBINES ARE SIMPLE CYCLE]

(iii) [NA – TURBINES ARE SIMPLE CYCLE]

(iv) Simple cycle or regenerative cycle combustion turbine with a rated output equal to or greater than 1,000 bhp and less than 4,100 bhp shall comply with the following presumptive RACT emission limitations as applicable:

(A) 120 ppmvd NOx @ 15% oxygen when firing natural gas or a noncommercial gaseous fuel. [APPLIES TO SOURCE ID 034]

(B) [NA – NOT A MAJOR SOURCE OF VOC]

(C) [NA – NOT FIRED ON FUEL OIL]

(D) [NA – NOT A MAJOR SOURCE OF VOC]

(v) Simple cycle or regenerative cycle combustion turbine with a rated output equal to or greater than 4,100 bhp and less than 60,000 bhp shall comply with the following presumptive RACT emission limitations as applicable:

(A) 42 ppmvd NOx @ 15% oxygen when firing natural gas or a noncommercial gaseous fuel. [APPLIES TO SOURCE ID 036]

(B) [NA – NOT A MAJOR SOURCE OF VOC]

(C) [NA – NOT FIRED ON FUEL OIL]

(D) [NA – NOT A MAJOR SOURCE OF VOC]

(3) [NA – ENGINE IS SUBJECT TO 129.112(b)(10)]

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(4) [NA – UNITS DO NOT FIRE MULTIPLE FUELS]

(h) [NA – NOT A CEMENT KILN]

(i) [NA – NOT A GLASS MELTING FURNACE]

(j) [NA – NOT A LIME KILN]

(k) [NA – COMBUSTION UNITS ARE RATED BELOW 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 NOx and VOCs) or under § § 129.96—129.100 (relating to additional RACT requirements for major sources of NOx and VOCs) to control, reduce or minimize NOx 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 – FACILITY COMPLIES WITH PRESUMPTIVE RACT]

(o) [NA – FACILITY COMPLIES WITH PRESUMPTIVE RACT]

(p) [NA – FACILITY COMPLIES WITH PRESUMPTIVE RACT]

(q) [NA – FACILITY COMPLIES WITH PRESUMPTIVE RACT]

§ 129.113. Facility-wide or system-wide NOx emissions averaging plan general requirements.

[NA – FACILITY DOES NOT USE AN EMISSIONS AVERAGING PLAN]

§ 129.114. Alternative RACT proposal and petition for alternative compliance schedule.

[NA – FACILITY COMPLIES WITH 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 – INITIAL NOTIFICATION WAS SUBMITTED ON 12/19/2022]

(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) December 31, 2022, or 6 months after the date that the source meets the definition of a major NOx emitting facility or major VOC emitting facility, whichever is later, for a source subject to § 129.111(b).

(2) This notification shall identify the air contamination sources in § 129.111(a) as one of the following:

SECTION E. Source Group Restrictions.

(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 NOx located at a major NOx 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)(ii).

(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)(ii).

(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 NOx 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 NOx 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 – UNITS DO NOT USE CEMS]
(2) [NA – NOT A CEMENT KILN]

(3) [NA – NOT AN MW COMBUSTOR]

(4) [NA – UNITS DO NOT USE CEMS]

SECTION E. Source Group Restrictions.

(5) [NA – UNITS DO NOT USE CEMS]

(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.

(c) [NA – TURBINES ARE SIMPLE CYCLE]

(d) [NA – FACILITY COMPLIES WITH PRESUMPTIVE RACT]

(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 NOx 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 – WAIVER REQUEST WAS SUBMITTED ON 12/19/2022 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) December 31, 2022, or 6 months after the date that the source meets the definition of a major NOx emitting facility or major VOC emitting facility, whichever is later, for a source subject to § 129.111(b).

(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:

(i) November 12, 2021, for a source subject to § 129.111(a).

(ii) November 12, 2021, or within 12 months prior to the date that the source meets the definition of a major NOx emitting facility or major VOC emitting facility, whichever is later, for a source subject to § 129.111(b).

(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.

SECTION E. Source Group Restrictions.

(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) [NA – NOT A MAJOR SOURCE OF VOC]

(i) [NA – COMBUSTION UNITS ARE NOT SUBJECT TO 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 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.

The following sources of minor significance have been exempted from testing, monitoring, record keeping, and reporting requirements:

* Heater #1

* One (1) Water Mixture Tank

* Lube Oil #1 Tank

* Lube Oil #2 Tank

* One (1) natural gas-fired fuel line heater having a maximum rated heat input capacity of 0.7 mmBTU/hr

* Approximately 24 natural gas-fired space heaters each having a maximum rated heat input capacity of 0.9 mmBTU/hr

* A01 - Pipeline Liquids Tank having a capacity of 577 gallons

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The following serves as a description of the Source IDs:

Source IDs 031, 032, 033, and 034, were previously the subject of RACT Operating Permit No. 28-2003.

Source IDs 036 and G02 were previously the subject of Plan Approval Nos. 28-05003A and 28-05003B.

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