



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: June 4, 2025

Effective Date: June 4, 2025

Expiration Date: June 3, 2030

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: 09-00124

Federal Tax Id - Plant Code: 83-2075573-1

Owner Information

Name: EDGEWATER GENERATION HOLDINGS LLC

Mailing Address: 50 ENERGY DR
FAIRLESS HILLS, PA 19030

Plant Information

Plant: FAIRLESS ENERGY LLC/FALLS TWP

Location: 09 Bucks County 09002 Falls Township

SIC Code: 4911 Trans. & Utilities - Electric Services

Operator

Name: FAIRLESS ENERGY, LLC

[If different from owner]

Mailing Address: 50 ENERGY DR
FAIRLESS HILLS, PA 19030

Responsible Official

Name: MICHAEL H PETTICORD

Title: PLANT MANAGER

Phone: (215) 337 - 6510

Email: mpetticord@fairlessenergy.com

Permit Contact Person

Name: KARL BRENTON

Title: SR ENV COMPL COORDINATOR

Phone: (215) 337 - 6508

Email: kbrenton@fairlessenergy.com

[Signature] _____

JILLIAN A. GALLAGHER, SOUTHEAST REGION AIR PROGRAM MANAGER



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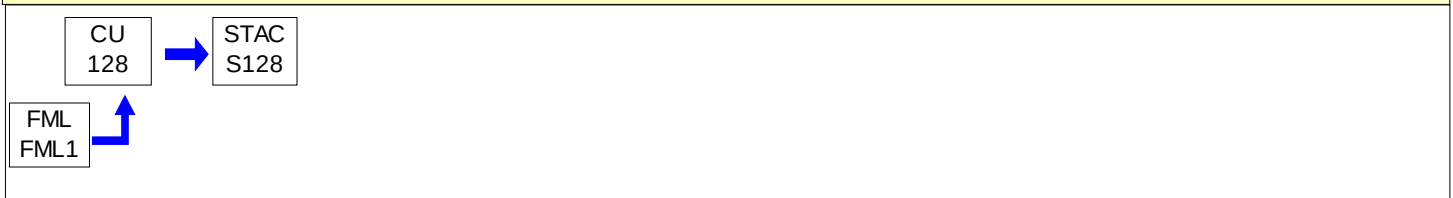
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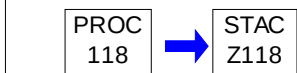
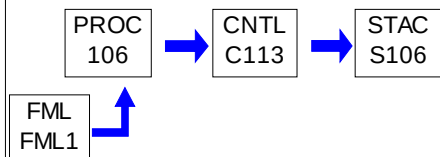
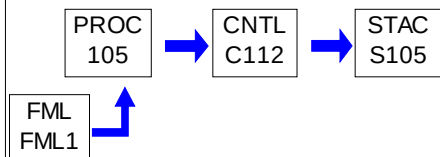
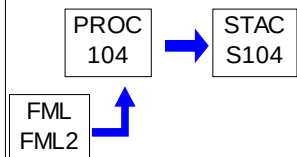
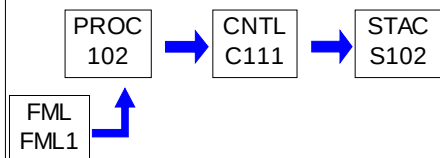
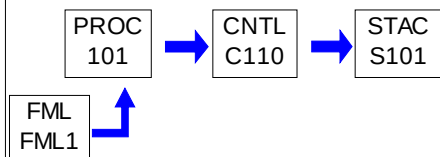
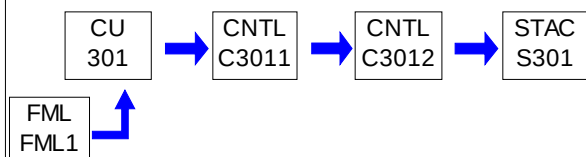
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
128	(2) NATURAL GAS PIPELINE HEATERS	31.900 MMBTU/HR	
		N/A	Natural Gas
301	AUXILIARY BOILER	32.400 MMBTU/HR	
		N/A	Natural Gas
101	NO.1A COMBINED CYCLE GAS TURBINE W/DUCT BURNER	2,283.000 MMBTU/HR	
		N/A	Natural Gas
102	NO.1B COMBINED CYCLE GAS TURBINE W/DUCT BURNER	2,283.000 MMBTU/HR	
		N/A	Natural Gas
104	DIESEL FIRE PUMP	1.610 MMBTU/HR	
		N/A	Diesel Fuel
105	NO.2A COMBINED CYCLE GAS TURBINE W/DUCT BURNER	2,283.000 MMBTU/HR	
		N/A	Natural Gas
106	NO.2B COMBINED CYCLE GAS TURBINE W/ DUCT BURNER	2,283.000 MMBTU/HR	
		N/A	Natural Gas
118	FOUR COOLING TOWERS	N/A	WATER VAPOR
C110	1A SELECTIVE CATALYTIC REDUCTION		
C111	1B SELECTIVE CATALYTIC REDUCTION		
C112	2A SELECTIVE CATALYTIC REDUCTION		
C113	2B SELECTIVE CATALYTIC REDUCTION		
C3011	AUXILIARY BOILER LOW NOX BURNER		
C3012	AUXILIARY BOILER STEAM INJECTION		
FML1	NATURAL GAS		
FML2	DIESEL FIRE PUMP OIL TANK		
S101	1A COMBUSTION TURBINE STACK		
S102	1B COMBUSTION TURBINE STACK		
S104	EMERGENCY DIESEL FIRE PUMP STACK		
S105	2A COMBUSTION TURBINE STACK		
S106	2B COMBUSTION TURBINE STACK		
S128	(2) NATURAL GAS PIPELINE HEATERS STACK		
S301	AUXILIARY BOILER STACK		
Z118	COOLING TOWER STACKS		

PERMIT MAPS



PERMIT MAPS



**SECTION B. General Title V Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

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

#003 [25 Pa. Code § 127.512(c)(4)]**Property Rights**

This permit does not convey property rights of any sort, or any exclusive privileges.

#004 [25 Pa. Code § 127.446(a) and (c)]**Permit Expiration**

This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

#005 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e), 127.503 & 127.704(b)]**Permit Renewal**

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

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

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

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

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

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

(1) The Department determines that no other change in the permit is necessary;

(2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,

(3) A compliance review form has been submitted to the Department and the permit transfer has been approved by

**SECTION B. General Title V Requirements**

the Department.

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

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

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

(1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

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

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

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

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

(1) Enforcement action

(2) Permit termination, revocation and reissuance or modification

(3) Denial of a permit renewal application

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

#024 [25 Pa. Code §§ 127.511 & Chapter 135]**Recordkeeping Requirements**

(a) The permittee shall maintain and make available, upon request by the Department, records of required monitoring information that include the following:

- (1) The date, place (as defined in the permit) and time of sampling or measurements.
- (2) The dates the analyses were performed.
- (3) The company or entity that performed the analyses.
- (4) The analytical techniques or methods used.

**SECTION B. General Title V Requirements**

(5) The results of the analyses.

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

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

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

#025 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]**Reporting Requirements**

(a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source. The required reports shall be certified by a responsible official.

(c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #022(c) of this permit.

(d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

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

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

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

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

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

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

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

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

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

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

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

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

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

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

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

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

(1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,

(2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §121.7]****Prohibition of air pollution.**

No person shall permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. Section 4003).

002 [25 Pa. Code §123.1]**Prohibition of certain fugitive emissions**

(a) No person shall permit the emission into the outdoor atmosphere of fugitive air contaminant from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Open burning operations.
- (7) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.
- (8) Coke oven batteries, provided the fugitive air contaminants emitted from any coke oven battery comply with the standards for visible fugitive emissions in § § 123.44 and 129.15 (relating to limitations of visible fugitive air contaminants from operation of any coke oven battery; and coke pushing operations).
- (9) Sources and classes of sources other than those identified in paragraphs (1)-(8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (i) the emissions are of minor significance with respect to causing air pollution; and
 - (ii) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

003 [25 Pa. Code §123.2]**Fugitive particulate matter**

A person shall not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

004 [25 Pa. Code §123.31]**Limitations**

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

005 [25 Pa. Code §123.41]**Limitations**

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

**SECTION C. Site Level Requirements**

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

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

006 [25 Pa. Code §123.42]**Exceptions**

The opacity limitations as per 25 Pa. Code § 123.41 shall not apply to a visible emission in either of the following instances:

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

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

(c) When the emission results from the sources specified in 25 Pa. Code § 123.1(a) (relating to prohibition of certain fugitive emissions).

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

The combined emissions for the facility shall not exceed the following limitations:

Pollutant	Facility Emission Limit (TPY)*
Nitrogen Oxides (NO _x)	424.7 TPY
Volatile Organic Compounds (VOC)	88.4 TPY
Carbon Monoxide (CO)	360.5 TPY
Particulate Matter (PM)	387.6 TPY
Sulfur Dioxide (SO ₂)	96.3 TPY
Sulfuric Acid (H ₂ SO ₄) Mist	29.3 TPY

* The facility annual emission limits are a 12-month rolling sum calculated monthly. The facility annual emission limits include the emissions during all modes of operation.

008 [25 Pa. Code §129.14]**Open burning operations**

No person shall permit the open burning of material in the Southeast Air Basin except where the open burning operations result from:

(a) a fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer;

(b) any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department;

(c) a fire set for the prevention and control of disease or pests, when approved by the Department;

(d) a fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation;

(e) a fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure;

(f) a fire set solely for recreational or ceremonial purposes; or

(g) a fire set solely for cooking food.

**SECTION C. Site Level Requirements****II. TESTING REQUIREMENTS.****# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

(a) If at any time the Department has cause to believe that air contaminant emissions from any source may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).

(b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139 and the most current version of the DEP Source Testing Manual, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

III. MONITORING REQUIREMENTS.**# 010 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions shall be measured using either of the following:

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

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

The permittee shall:

- (a) Monitor monthly natural gas fuel usage
- (b) Calculate emissions monthly and on a 12-month rolling sum. Calculations shall include all modes of operation.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

- (a) The permittee shall monitor the facility, once per operating day, for the following:
 - (1) odors which may be objectionable (as per 25 Pa. Code §123.31);
 - (2) visible emissions (as per 25 Pa. Code §§123.41 and 123.42); and
 - (3) fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).
- (b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:
 - (1) be investigated;
 - (2) be reported to the facility management, or individual(s) designated by the permittee;
 - (3) have appropriate corrective action taken (for emissions that originate on-site); and
 - (4) be recorded in a permanent written log.
- (c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly.
- (d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.
- (e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification (if applicable), complaints, monitoring results, and/or Department findings.

**SECTION C. Site Level Requirements**

(f) Requests shall be addressed to:

Pennsylvania Department of Environmental Protection
Southeast Regional Office, Air Quality Program
2 East Main Street
Norristown, PA 19401-4915

IV. RECORDKEEPING REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall keep records of all monitoring of fugitive emissions, visible emissions and odors, including those that deviate from the conditions found in this permit. The record of deviations shall contain, at a minimum, the following items:

- (a) Date, time, and location of the incident(s).
- (b) The cause of the event.
- (c) The corrective action taken, if necessary, to abate the situation and prevent future occurrences.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of all the facility's increases of emissions from the following categories:

- (a) emissions increase of minor significance without notification to the Department.
- (b) de minimis increases with notification to the Department, via letter.
- (c) increases resulting from a Request for Determination (RFD) to the Department.
- (d) increases resulting from the issuance of a plan approval and subsequent operating permit.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep a record of all stack tests that are required in this permit.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The owner and operator shall keep all records that are required under 40 CFR Part 60, Subparts Dc, and KKKK; and 40 CFR Parts 72 through 78, unless the permittee receives approval of an alternative method from the U.S. EPA.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall compile and keep emission records from all facility sources on a monthly and 12-month rolling sum in order to demonstrate compliance with the facility-wide emission limits specified in this section. These records shall include emissions during startups and shutdowns.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep monthly records of natural gas fuel usage.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of all air pollution control system performance evaluations and records of calibration checks, adjustments, and maintenance performed on all equipment.

V. REPORTING REQUIREMENTS.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511(c).]

**SECTION C. Site Level Requirements**

The permittee shall submit the following:

- (a) An annual certificate of compliance, due by April 1st of each year, for the period covering January 1 through December 31 of the previous year. This certificate of compliance shall document compliance with all permit terms and conditions set forth in this Title V permit as required under condition #24 of section B of this permit. The annual certificate of compliance shall be submitted to the Department in paper form, and EPA Region III in electronic form at the following email address: R3_APD_Permits@epa.gov
- (b) A semi-annual deviation report, due by October 1, of each year, for the period covering January 1 through June 30 of the same year. Note: The annual certification of compliance fulfills the obligation for the second deviation reporting period (July 1 through December 31 of the previous year).

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

- (a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department at 1-800-541-2050. 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. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
- (b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.
- (c) The report shall describe the following:
 - (1) Name, permit or authorization number, and location of the facility;
 - (2) Nature and cause of the malfunction, emergency or incident;
 - (3) Date and time when the malfunction, emergency or incident was first observed;
 - (4) Expected duration of excess emissions;
 - (5) Estimated rate of emissions; and
 - (6) Corrective actions or preventative measures taken.
- (d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.
- (e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.
- (f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.
- (g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

**SECTION C. Site Level Requirements****# 022 [25 Pa. Code §135.21]****Emission statements**

The permittee shall submit by March 1, of each year, an annual emission statement for the preceding calendar year.

VI. WORK PRACTICE REQUIREMENTS.**# 023 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified 25 Pa. Code § 123.1 shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following

- (a) use, where possible, of water or suitable 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, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts;
- (c) paving and maintenance of roadways; and
- (d) prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

The permittee shall ensure that the source(s) and air pollution control device(s), listed in Section A and Section H, where applicable, of this permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturer's specifications.

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

The permittee shall immediately, upon discovery, implement measures, which may include the application for the installation of an air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in Section A of this permit, is causing the emission of air contaminants in excess of the limitations specified in, or established pursuant to, 25 Pa. Code Article III, or any other applicable rule promulgated under the Clean Air Act.

026 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

The permittee shall not modify any air contaminant system identified in Sections A or H, of this permit, prior to obtaining Department approval, except those modifications authorized by Condition #019(g), of Section B, of this permit.

VII. ADDITIONAL REQUIREMENTS.**# 027 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.531.]

1. The facility is subject to the applicable requirements in 40 CFR Parts 72 through 78. In addition, the facility is subject to the applicable requirements contained in 25 Pa. Code § 127.531, regarding special conditions related to acid rain.
2. The owner and operator of each affected source and each affected unit at the source shall:
 - (a) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit

**SECTION C. Site Level Requirements**

issued by the permitting authority; and

(b) Have an Acid Rain permit.

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

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

**SECTION D. Source Level Requirements**

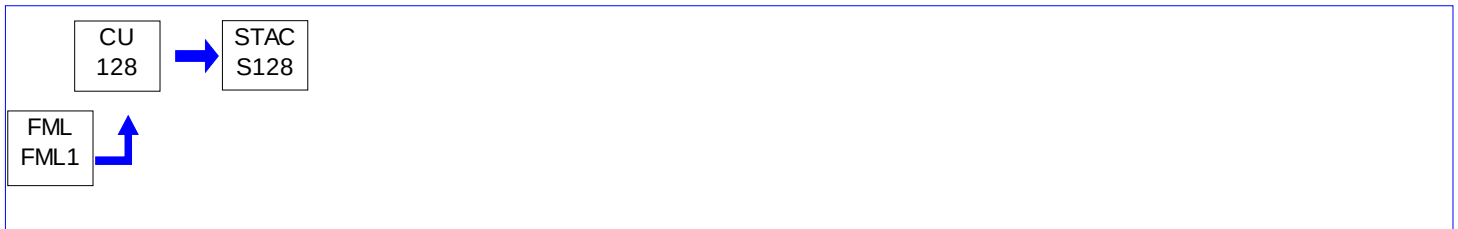
Source ID: 128

Source Name: (2) NATURAL GAS PIPELINE HEATERS

Source Capacity/Throughput: 31.900 MMBTU/HR

N/A

Natural Gas

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Nitrogen Oxides (NO_x) emissions from each natural gas preheater shall not exceed 0.035 lb/MMBtu, 1.1 lb/hr, and a combined limit of 4.8 TPY*.

* TPY value represents a combined emission limit for both preheaters and are based on a 12-month rolling sum.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source shall fire natural gas only.

Operation Hours Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source shall be restricted in operation to one natural gas pre-heater at any time.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall perform emissions calculations and maintain records of NO_x, CO, VOC, PM, and SO₂ emissions on a monthly, and 12-month rolling basis.

(b) The permittee shall keep sufficient records showing that only one preheater is being operated at a time.

**SECTION D. Source Level Requirements****# 005 [25 Pa. Code §129.100]****Compliance demonstration and recordkeeping requirements.**

Records demonstrating compliance with 25 Pa. Code § 129.100 shall be retained by the permittee for 5 years and made available to the Department upon receipt of a written request.

006 [25 Pa. Code §129.100]**Compliance demonstration and recordkeeping requirements.**

The permittee shall maintain records or required monitoring information that include the following:

(1) Each adjustment conducted under the procedures in 25 Pa. Code § 129.97(b). This log must contain, at a minimum:

- (a) The date of the tuning procedure.
- (b) The name of the service company and the technician performing the procedure.
- (c) The final operating rate or load.
- (d) The final NO_x and CO emission rates.
- (e) The final excess oxygen rate.

(2) Pursuant to 25 Pa. Code § 129.100(f), records used to demonstrate that the natural gas pipeline heaters are exempt from the applicable VOC emission rate thresholds based on the potential to emit.

(3) Maintain written records demonstrating that unit installation, maintenance, and operation conforms with manufacturer's specifications and with good operating practices.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

The permittee shall maintain records of the amount of fuel combusted from each natural gas preheater on a monthly basis.

V. REPORTING REQUIREMENTS.**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]****Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

All reports required under NSPS Subpart Dc shall be submitted to the Department and U.S. EPA on an annual basis, and shall be postmarked by the 30th day following the end of the reporting period.

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

This source is subject to 40 CFR Part 60 Subpart Dc - Standards of Performance for New Stationary Sources, and shall comply with all applicable requirements of this Subpart.

Pursuant to 40 CFR Section 60.4, the permittee shall submit copies of all requests, reports, applications, submittals, and other communications to both EPA and the appropriate Regional Office of the Department. The 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

or

**SECTION D. Source Level Requirements**

Reports can be submitted through the Compliance and Emissions Data Reporting Interface (CEDRI) portal of the Central Data Exchange (CDX): <https://cdx.epa.gov/>

VI. WORK PRACTICE REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

This source shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices.

[Compliance with the requirement in this streamlined permit condition assures compliance with the provisions found in 25 Pa. Code § 129.97(c) and (d).]

011 [25 Pa. Code §129.97]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.**

Biennial tune-ups shall be conducted in accordance with the procedures listed in 40 CFR § 63.11223 (although not subject to the Area Source Boiler MACT Subpart JJJJJJ), and must include at a minimum, the following:

- (a) Inspection and cleaning or replacement of fuel-burning equipment, including the burners and components, as necessary, for proper operation as specified by the manufacturer.
- (b) Inspection of the flame pattern and adjustment of the burner, as necessary, to optimize the flame pattern to minimize total emissions of NO_x and, to the extent possible, emissions of CO.
- (c) Inspection and adjustment, as necessary, of the air-to-fuel ratio control system to ensure proper calibration and operation as specified by the manufacturer.

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

This source consists of two natural gas pipeline heaters equipped with Low NO_x Burners.

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

**SECTION D. Source Level Requirements**

Source ID: 301

Source Name: AUXILIARY BOILER

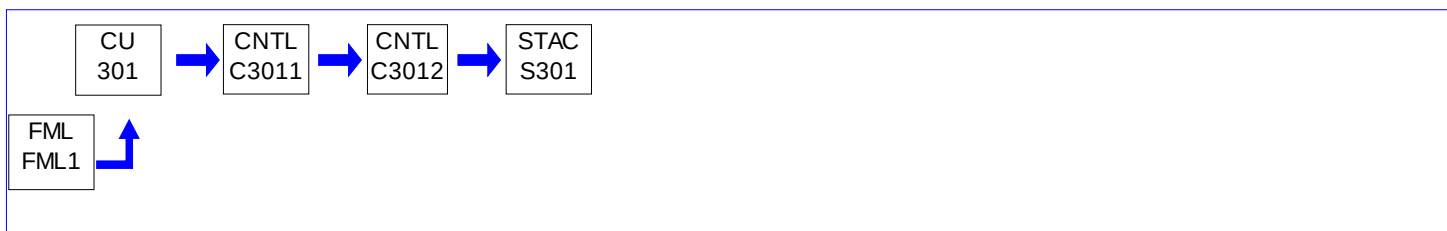
Source Capacity/Throughput:

32.400

MMBTU/HR

N/A

Natural Gas

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

1. Carbon monoxide (CO) emissions from the boiler shall not exceed 50 ppm dv at 3% O₂ and 0.037 lb/MMBtu at any time and 5.8 tons per year on a 12-month rolling sum.
2. Nitrogen oxides (NO_x) emissions from the boiler shall not exceed 30 ppm dv at 3% O₂, 0.035 lb/MMBtu at any time and 5.6 tons per year on a 12-month rolling sum.
3. Particulate matter (PM) emissions from the boiler shall not exceed 0.008 lb/MMBtu at any time and 1.6 tons per year on a 12-month rolling sum.

Fuel Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall fire natural gas only as fuel for this source.

Operation Hours Restriction(s).**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The operation of the boiler shall not exceed 7,000 hours on a 12-month rolling basis.

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

The permittee shall monitor the following:

1. The steam injection valve position, once per 12-hour shift, when operating.
2. The boiler operating hours on a daily basis and 12-month rolling sum, when operating.
3. The boiler load from startup to shutdown, once per 12-hour shift, when operating.

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

(a) The permittee shall keep the following records:

1. The steam injection valve position, once per 12-hour shift, when operating.
2. The boiler operating hours on a daily basis and 12-month rolling sum, when operating.
3. The boiler load from startup to shutdown, once per 12-hour shift, when operating.

(b) The permittee shall perform emissions calculations and maintain records of NO_x, CO, VOC, PM, and SO₂ emissions on a monthly, and 12-month rolling basis.

006 [25 Pa. Code §129.100]**Compliance demonstration and recordkeeping requirements.**

The permittee shall maintain records or required monitoring information that include the following:

(1) Each adjustment conducted under the procedures in 25 Pa. Code § 129.97(b). This log must contain, at a minimum:

- (a) The date of the tuning procedure.
- (b) The name of the service company and the technician performing the procedure.
- (c) The final operating rate or load.
- (d) The final NO_x and CO emission rates.
- (e) The final excess oxygen rate.

(2) Maintain written records demonstrating that unit installation, maintenance, and operation conforms with manufacturer's specifications and with good operating practices.

007 [25 Pa. Code §129.100]**Compliance demonstration and recordkeeping requirements.**

Records demonstrating compliance with 25 Pa. Code § 129.100 shall be retained by the permittee for 5 years and made available to the Department upon receipt of a written request.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

The permittee shall maintain records of the amount of fuel combusted from this source on a monthly basis.

V. REPORTING REQUIREMENTS.**# 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]****Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

All reports required under NSPS Subpart Dc shall be submitted to the Department and U.S. EPA on an annual basis, and shall be postmarked by the 30th day following the end of the reporting period.

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

This source is subject to 40 CFR Part 60 Subpart Dc - Standards of Performance for New Stationary Sources, and shall comply with all applicable requirements of this Subpart.

Pursuant to 40 CFR Section 60.4, the permittee shall submit copies of all requests, reports, applications, submittals, and

**SECTION D. Source Level Requirements**

other communications to both EPA and the appropriate Regional Office of the Department. The 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

or

Reports can be submitted through the Compliance and Emissions Data Reporting Interface (CEDRI) portal of the Central Data Exchange (CDX): <https://cdx.epa.gov/>

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

1. This source shall be equipped with a low NOx burner, steam injection system, and an hour meter or equivalent, to monitor the hours of operation
2. This source shall be operated at 25 percent load or above, except during boiler startup and shutdown.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

This source shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices.

[Compliance with the requirement in this streamlined permit condition assures compliance with the provisions found in 25 Pa. Code § 129.97(c) and (d).]

013 [25 Pa. Code §129.97]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.**

Biennial tune-ups shall be conducted in accordance with the procedures listed in 40 CFR § 63.11223 (although not subject to the Area Source Boiler MACT Subpart JJJJJ), and must include at a minimum, the following:

- (a) Inspection and cleaning or replacement of fuel-burning equipment, including the burners and components, as necessary, for proper operation as specified by the manufacturer.
- (b) Inspection of the flame pattern and adjustment of the burner, as necessary, to optimize the flame pattern to minimize total emissions of NOx and, to the extent possible, emissions of CO.
- (c) Inspection and adjustment, as necessary, of the air-to-fuel ratio control system to ensure proper calibration and operation as specified by the manufacturer.

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

This source consists of an auxiliary boiler rated at 32.4 MMBtu/hr, manufactured by Nebraska, Model No. WS-B-46SH, Serial No. D-4548. The boiler is equipped with a low NOx burner and steam injection system.

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

**SECTION D. Source Level Requirements**

Source ID: 101

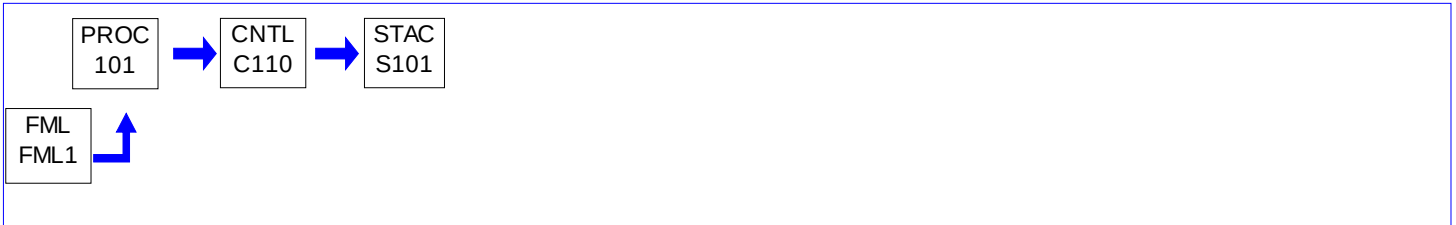
Source Name: NO.1A COMBINED CYCLE GAS TURBINE W/DUCT BURNER

Source Capacity/Throughput: 2,283.000 MMBTU/HR

N/A

Natural Gas

Conditions for this source occur in the following groups: COMBUSTION TURBINES
CSAPR
NSPS KKKK
RACT III

**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: 102

Source Name: NO.1B COMBINED CYCLE GAS TURBINE W/DUCT BURNER

Source Capacity/Throughput: 2,283.000 MMBTU/HR

N/A

Natural Gas

Conditions for this source occur in the following groups: COMBUSTION TURBINES

CSAPR

NSPS KKKK

RACT III

**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: 104

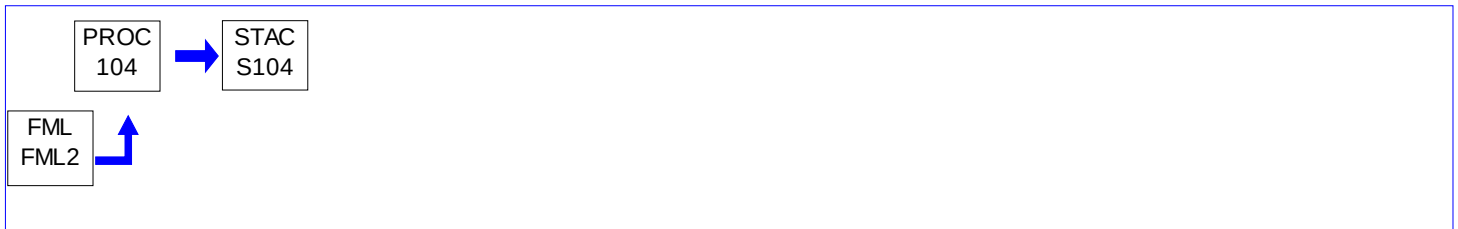
Source Name: DIESEL FIRE PUMP

Source Capacity/Throughput:

1.610 MMBTU/HR

N/A

Diesel Fuel

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

Emissions from this source shall not exceed the limitations specified below:

Pollutant	Emission Limits
Nitrogen Oxides (NO _x)	7.2 g/hp-hr, 3.5 lb/hr, 0.88 TPY
Volatile Organic Compounds (VOC)	0.47 g/hp-hr, 0.1 lb/hr, 0.06 TPY
Carbon Monoxide (CO)	1.2 g/hp-hr, 0.6 lb/hr, 0.15 TPY
Particulate Matter (PM)	0.22 g/hp-hr, 0.1 lb/hr, 0.03 TPY
Sulfur Dioxide (SO ₂)	0.17 g/hp-hr, 0.1 lb/hr, 0.02 TPY

Fuel Restriction(s).**# 002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6604]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What fuel requirements must I meet if I own or operate an existing stationary CI RICE?**

In accordance with 40 CFR § 80.510(b), the diesel fuel is subject to the following per gallon standards:

- (a) A maximum sulfur content of 15 ppm.
- (b) A minimum cetane index of 40; or a maximum aromatic content of 35 volume percent.

Operation Hours Restriction(s).**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The operation of this source shall not exceed 500 hours in a consecutive 12-month rolling sum.

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

(a) For each delivery of diesel fuel oil to be used in this source, the permittee shall collect a sample for chemical analysis to certify the following:

- (1) Sulfur content, and
- (2) Cetane index or aromatic content.

(b) The fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample.

**SECTION D. Source Level Requirements**

(c) Results shall be reported to the Department within 30 days of the fuel being delivered.

(d) These testing requirements shall be waived in the event that a delivery receipt from the supplier is obtained each time a fuel oil delivery is made, which provides certification of the maximum sulfur content, and the minimum cetane index or maximum aromatic content in the fuel.

III. MONITORING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the hours of operation on a monthly basis, when operating.

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR § 63.6655.]

(a) The permittee shall record the hours of operation on a monthly basis through the hourly meter and shall include reason of operation, when the source is operated.

(b) The permittee shall perform emissions calculations and maintain records of NO_x, CO, VOC, PM, and SO₂ emissions on a monthly, and 12-month rolling basis.

(c) The permittee shall keep records of all required maintenance conducted on the stationary RICE.

(d) The permittee shall obtain and maintain records delivery receipts from the fuel supplier, which provides certification of the maximum sulfur content, and the minimum cetane index or maximum aromatic content in the fuel, each time a fuel oil delivery is made.

If fuel supplier certification is not obtained per delivery showing the sulfur content, minimum cetane index, or maximum aromatic content, the permittee shall perform a chemical analysis of the fuel received according to the requirements specified in Condition #004, of this section for this source.

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.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]

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

What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

The permittee shall:

(a) Change oil and filter every 500 hours of operation or annually, whichever comes first;

(b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

(c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

**SECTION D. Source Level Requirements**

(d) Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]

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

What are my general requirements for complying with this subpart?

The permittee shall operate and maintain this source in a manner consistent with safety and good air pollution control practices for minimizing emissions.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

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

What are my monitoring, installation, operation, and maintenance requirements?

This source shall be equipped with a non-resettable hour meter and the meter shall be provided with adequate access for inspection.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

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

What are my monitoring, installation, operation, and maintenance requirements?

The permittee shall:

(a) Operate and maintain this source according to the manufacturer's emission-related operation and maintenance instructions; or

(b) Develop and follow a maintenance plan which provides to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

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

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

The emergency diesel fire pump engine shall meet the definition of an emergency stationary RICE as defined in 40 CFR § 63.6675, which includes operating according to the provisions specified in 40 CFR § 63.6640(f).

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION D. Source Level Requirements**

Source ID: 105

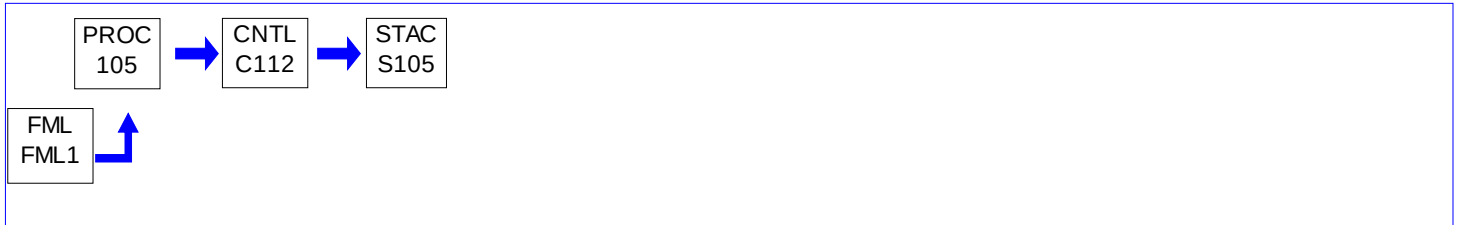
Source Name: NO.2A COMBINED CYCLE GAS TURBINE W/DUCT BURNER

Source Capacity/Throughput: 2,283.000 MMBTU/HR

N/A

Natural Gas

Conditions for this source occur in the following groups: COMBUSTION TURBINES
CSAPR
NSPS KKKK
RACT III

**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: 106

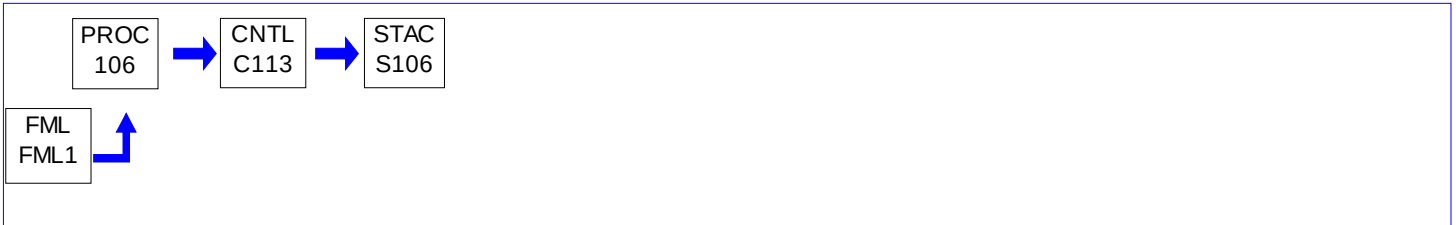
Source Name: NO.2B COMBINED CYCLE GAS TURBINE W/ DUCT BURNER

Source Capacity/Throughput: 2,283.000 MMBTU/HR

N/A

Natural Gas

Conditions for this source occur in the following groups: COMBUSTION TURBINES
CSAPR
NSPS KKKK
RACT III

**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**

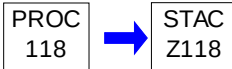
Source ID: 118

Source Name: FOUR COOLING TOWERS

Source Capacity/Throughput:

N/A

WATER VAPOR

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The PM emissions from the cooling towers, in total, shall not exceed 1.26 pounds per hour and 5.5 tons per year as a 12-month rolling sum.

Throughput Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The dissolved/suspended solids in the cooling tower blowdown water shall not exceed the monthly average of 1,200 ppm by weight.

II. TESTING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall perform monthly TSS (Total Suspended Solids) and TDS (Total Dissolved Solids) sampling and testing of cooling tower blowdown.

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor monthly TSS (Total Suspended Solids) and TDS (Total Dissolved Solids) from the cooling tower blowdown.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain monthly records of TSS (Total Suspended Solids) and TDS (Total Dissolved Solids) sampling test results from the cooling tower blowdown.

(b) The permittee shall perform emissions calculations and maintain records of PM emissions on a monthly, and 12-month rolling basis.

V. REPORTING REQUIREMENTS.

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

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

The permittee shall ensure that this source is operated and maintained in accordance with manufacturer's specifications.

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

This source consists of the following cooling towers:

- a) Unit 1 Cooling Tower - 10 cells
- b) Unit 2 Cooling Tower - 10 cells
- c) Inlet Air Cooling Tower 1 - 4 cells
- d) Inlet Air Cooling Tower 2 - 4 cells

All four cooling towers are equipped with mist eliminators.

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

A one-time compliance demonstration was performed to show that maintaining the concentration of the blowdown below 1,200 ppm, will ensure compliance with the 1.26 lb/hr and 5.5 TPY particulate matter emission limits.

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

**SECTION E. Source Group Restrictions.**

Group Name: COMBUSTION TURBINES

Group Description: Combined Cycle Combustion Turbines w/ Duct Burners

Sources included in this group

ID	Name
101	NO.1A COMBINED CYCLE GAS TURBINE W/DUCT BURNER
102	NO.1B COMBINED CYCLE GAS TURBINE W/DUCT BURNER
105	NO.2A COMBINED CYCLE GAS TURBINE W/DUCT BURNER
106	NO.2B COMBINED CYCLE GAS TURBINE W/ DUCT BURNER

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

No person may permit the emission into the outdoor atmosphere of particulate matter from this source in excess of 0.02 gr/dscf, pursuant to 25 Pa. Code § 123.13 (c)(1)(iii).

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

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

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

[Compliance with the requirements in this permit condition assures compliance with the provisions found in 40 CFR § 60.4320(a)&(b), and §60.4330(a).]

A. Except during startup and shutdown, the emissions from each combustion turbine (with or without duct burner firing), shall not exceed the limitations specified below:

Pollutant	Emissions*
Nitrogen Oxides (NOx)	2.5 ppmvd @ 15% oxygen
Volatile Organic Compounds (VOC)**	0.002 lb/MMBtu
Carbon Monoxide (CO)	3.0 ppmvd @ 15 % oxygen
Particulate Matter (PM and PM-10)	0.014 lb/MMBtu
Sulfur Dioxide (SO2)	0.002 lb/MMBtu
Ammonia Slip Concentration	10 ppmvd @ 15% oxygen

* Compliance with the NOx emission limit is based on a 4-hour rolling average, using the procedures in 40 CFR Part 60, Subpart KKKK, Section 60.4350(a), (b), (d), and (f) as applicable.

Compliance with the SO2 emission limit is determined in accordance with 40 CFR Part 60, Subpart KKKK, Sections 60.4360, 60.4365, and/or 60.4370, as appropriate.

Compliance with the PM, VOC, and NH3 emission limits are based on stack tests.

** The VOC emissions shall be reported as methane.

In the event that the CO and VOC emissions do not comply with the emission limits established in this Condition, the permittee shall install an Oxidation Catalyst to control the CO emission level at less than 3 ppmvd corrected at 15 percent oxygen and VOC emission level at less than 0.002 lb/MMBtu. The Department will specifically notify the permittee that the oxidation catalyst is required unless the permittee has demonstrated to the Department's satisfaction that the noncompliance was due to equipment malfunction. The permittee shall submit a compliance plan to the Department for approval within sixty (60) days of the notification. Any period of non-compliance will be subject to Department enforcement

**SECTION E. Source Group Restrictions.**

action.

B. The short term emission limitations contained in paragraph A above, do not apply during startup and shutdown of the combustion turbines. The combustion startup and shutdown emissions shall be calculated using the following emission factors:

(1) Cold Startup:

NO_x = 321 lb/startup

VOC = 181 lb/startup

CO = 474 lb/startup

PM/PM₁₀ = 43.2 lb/startup

SO₂ = 10.9 lb/startup

(2) Warm Startup:

NO_x = 223 lb/startup

VOC = 70 lb/startup

CO = 435 lb/startup

PM/PM₁₀ = 43.2 lb/startup

SO₂ = 10.9 lb/startup

(3) Hot Startup:

NO_x = 219 lb/startup

VOC = 23 lb/startup

CO = 192 lb/startup

PM/PM₁₀ = 43.2 lb/startup

SO₂ = 10.9 lb/startup

(4) Shutdown:

NO_x = 48 lb/shutdown

VOC = 8.5 lb/shutdown

CO = 28.8 lb/shutdown

PM/PM₁₀ = 43.2 lb/shutdown

SO₂ = 10.9 lb/shutdown

C. The permittee shall not exceed the short term emission limitations at any time, including peak firing and Inlet Guide Vane (IGV) push operations.

D. The following conditions apply to the start-up or shutdown of each combustion turbine:

(1) A cold start-up shall be defined as an event that occurs after the combustion turbine has not been operating (flame out) for at least 48 hours. A cold start-up shall not last longer than five hours after ignition.

(2) A warm start-up shall be defined as an event that occurs after the combustion turbine has not been operating (flame out) for eight to 48 hours. A warm start-up shall not last longer than three hours after ignition.

(3) A hot start-up shall be defined as an event that occurs after the combustion turbine has not been operating (flame out) for less than eight hours. A hot start-up shall not last longer than two hours after ignition.

(4) The emissions from a start-up or shutdown shall be included in the 12-month rolling sum.

(5) A shut down commences with the reduction in the turbine's load to less than 70 percent with the intent to stop operation.

(6) Flame out is defined as, no combustion existing in and no fuel being consumed by the CT or the DB. During any start-up period a CT trip (flame out) shall not count as a completed start-up.

(a) A cold start-up with a trip and ensuing start-up, which occurs less than forty-eight (48) hours from the previous cold

**SECTION E. Source Group Restrictions.**

start-up shall be defined as a cold-trip start-up. A cold-trip start-up shall last no longer than 5 hours minus the time of the previous cold start-up (prior to the trip).

(b) A warm start-up with a trip and an ensuing start-up, which occurs less than eight hours from the previous warm start-up, shall be defined as a warm-trip start-up. A warm-trip start-up shall last no longer than 3 hours minus the time of the previous warm start-up (prior to the trip).

(c) Start up trip emissions shall be calculated using the start up emission factors identified in paragraph B, of this section. A cold trip start up shall use the cold start up emission factors and a warm trip start up shall use the warm start up emission factors.

(7) Firing of the combustion turbine for the purposes of drying out the unit as required at the completion of an off-line combustion turbine cleaning (i.e. water washing) is not to count as a start-up or shut-down. The following conditions apply to off-line cleaning:

(a) Firing of the combustion turbine at the completion of the off-line cleaning event will last no longer than thirty (30) minutes.

(b) The off-line cleaning evolution and subsequent firing of the combustion turbine will occur no more than four (4) times in a calendar year.

(c) The ensuing start up type (cold, warm, or hot) shall be defined based upon the date and time that flame was extinguished in the combustion turbine from the start up prior to the off-line cleaning event.

(8) Firing of the combustion turbine to heat the associated HRSG (heat recovery steam generator) for the purpose of freeze protection is not counted as a start-up or shut-down. The following conditions apply when firing a combustion turbine for freeze protection:

(a) Firing of the combustion turbine will last no longer than two hours (120 minutes).

(b) Firing of the combustion turbine for the purpose of freeze protection will occur no more than four (4) times in a calendar year per HRSG.

(c) The ensuing start up type (cold, warm, or hot) shall be defined based upon the date and time that flame was extinguished in the combustion turbine from the start up prior to the freeze protection firing.

(9) A malfunction is defined in 40 CFR Subpart 60, as 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.

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

During periods of retuning and automatic runback, the emissions from each combustion turbine (with or without duct burner firing), shall not exceed the following short term emission limits:

Pollutant	Emissions
Carbon Monoxide (CO)	3,380 lb/hr
Nitrogen Oxides (NOx)	607 lb/hr
Particulate Matter (PM and PM10)	133 lb/hr
Sulfur Dioxide (SO2)	10.9 lb/hr
Volatile Organic Compounds (VOC)	23 lb/hr
Ammonia Slip Concentration	21 lb/hr and 10 ppmv

**SECTION E. Source Group Restrictions.****Fuel Restriction(s).****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall use only natural gas as fuel for this source.

II. TESTING REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Compliance with the requirements of this permit condition assures compliance with the regulations found in 40 CFR § 60.4400, 60.4405, and 60.4415.]

(a) The permittee shall perform a stack test for the combustion turbines and duct burners of this source using the Department-approved procedures once every five (5) calendar years, where five calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five years later. 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. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient. However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack testing manual has been revised since approval, a new protocol must be submitted for approval.

(b) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c) The stack test shall, at a minimum, test for NO_x, VOC, CO, PM and PM-10, SO₂, and ammonia slip concentration, using a department approved test method(s). The permittee shall demonstrate compliance with each emission limit established for this source as per Section 60.8, Subpart KKKK of 40 CFR Part 60, and Chapter 139 of the Rules and Regulations of the Department.

(d) During the stack test, the ammonia solution flow rate (in GPM) and pH, shall be measured and recorded.

(e) At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(f) Within sixty (60) days after the source test(s) (unless a more stringent regulatory requirement applies), one paper copy plus one electronic copy of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(g) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause

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

[Compliance with the requirements of this permit condition assures compliance with the provisions found in NSPS Subpart KKKK, 40 CFR § 60.4340(b) and § 60.4345.]

1. This unit shall be equipped with continuous monitoring systems to monitor and record Nitrogen Oxides (NO_x) emissions, Carbon Monoxide (CO) emissions, and Oxygen (O₂) content in the flue gas at all points where gas contaminants are measured.

2. The permittee shall operate and maintain fuel flow meters for affected sources in accordance with the requirements of 40 CFR Part 75. The fuel flow will be measured in accordance with Part 75, Appendix D requirements, in lieu of stack exhaust flow monitoring, to allow for calculation of pollutant mass emission rates.

**SECTION E. Source Group Restrictions.**

3. The continuous emission monitoring systems for NO_x, CO, and O₂ shall be calibrated, operated, and maintained in accordance with the requirements of 25 Pa. Code Chapter 139, Subchapter C of the Rules and Regulations of the Department.

4. The continuous monitoring systems shall be operated and maintained to achieve the following data availability requirements:

Monitored Pollutants or Parameters: NO_x, CO, O₂

Data Availability > or = 90 percent valid hours/calendar month
> or = 95 percent valid hours/calendar quarter

Valid Hour > or = 75 percent valid readings (45 minutes/clock hour)

5. Equipment shall be operated and maintained to continuously monitor and record the ammonia solution injection rate to the SCR system.

6. Equipment shall be operated, and maintained to continuously monitor and record the amount of natural gas combusted in the combustion turbines and the duct burners.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the duration of each retuning and runback event.

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

1. The permittee shall perform emissions calculations and maintain records of NO_x, CO, VOC, PM, SO₂, and sulfuric acid mist (H₂SO₄) emissions on a monthly, and 12-month rolling basis.

2. The permittee shall maintain a copy of the manufacturer's specifications for the combustion turbines, duct burners, and air cleaning devices on site.

3. The permittee shall keep a record of each startup and shutdown of the the combustion turbine and duct burner.

4. The permittee shall maintain a copy of the manufacturer's specifications for the CEMS.

5. The permittee shall comply with the record keeping requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), and the "Record Keeping and Reporting" requirements of the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001.

Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

6. The owner and operator shall keep a record of the date of any malfunction, the time period of the malfunction, the cause of the malfunction, and the action taken to correct the malfunction.

7. For each ammonia delivery that is made, the permittee shall obtain and maintain records of certificates of analysis from the ammonia supplier which shows the pH or percent ammonia content, by weight, in the solution.

8. Records shall be retained for at least 5 years and shall be made available to the Department upon request.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

a) The permittee shall maintain records of the duration of each retuning and runback event. The following shall be recorded for each event:

1) The type of situation taking place (retuning or runback) and the date.

**SECTION E. Source Group Restrictions.**

- 2) The start time of the event/operation.
- 3) The end time of the event/operation.
- 4) The cause and corrective action taken (only for the automatic runback events).

b) The permittee shall perform and maintain records of emission calculations for NO_x, CO, PM₁₀, SO₂, and VOC emissions, and ammonia slip concentration of each retuning or runback event, in pounds per hour for each pollutant and parts per million by volume for NH₄.

V. REPORTING REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR § 60.4375, § 60.4380, § 60.4385, § 60.4390, § 60.4395, 25 Pa. Code §§139.101(1)(iv), 139.101(10), and 139.101(12).]

The permittee shall submit quarterly reports of continuous emission monitoring in parts per million of CO, and NO_x, each calculated at 15% O₂ on a 4-hour rolling average, to the Department in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), and the "Record Keeping and Reporting" requirements as established in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001.

The permittee shall report emissions for all periods of unit operation, including startup, shutdown, and malfunction.

Quarterly reports shall be submitted to the Department within 30 days after the end of each calendar quarter.

Failure to submit required reports of continuous emission monitoring within the time periods specified in this condition shall constitute violations of this permit, unless approved in advance by the Department.

Compliance with any subsequently issued revision to the Continuous Monitoring Source Manual will constitute compliance with this permit condition.

012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]**Subpart A - General Provisions****Address.**

This source is subject to 40 CFR Part 60 Subpart KKKK - Standards of Performance for New Stationary Sources, and shall comply with all applicable requirements of this Subpart.

Pursuant to 40 CFR Section 60.4, the permittee shall submit copies of all requests, reports, applications, submittals, and other communications to both EPA and the appropriate Regional Office of the Department. The 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

or

Reports can be submitted through the Compliance and Emissions Data Reporting Interface (CEDRI) portal of the Central Data Exchange (CDX): <https://cdx.epa.gov/>

Any variations from the compliance monitoring, testing, and reporting methods specified in the New Source Performance Standards shall be approved in advance by the U.S. EPA.

**SECTION E. Source Group Restrictions.****VI. WORK PRACTICE REQUIREMENTS.****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 139.101(1)(iv), 139.101(2), 139.101(3), 139.101(4), 139.101(6), 139.101(7), 139.101(8), 139.101(12), 139.101(14) and 139.101(15).]

1. Continuous Emission Monitoring Systems and components must be operated and maintained in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), and the "Quality Assurance" requirements in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001.

Compliance with any subsequently issued revision to the Continuous Monitoring Source Manual will constitute compliance with this permit condition.

2. This source shall be operated and maintained in accordance with manufacturer's specifications.

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

a) The permittee shall employ manufacturer's best practices during retuning and runback operations.

b) The permittee shall immediately take action to correct a runback situation in order to return the unit back to normal operation.

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

This source consists of a combined cycle gas turbine and duct burner, manufactured by General Electric, Model No. PG7241-FA. The rated heat input of the gas turbine is 1,953 MMBtu/hr at 0 degrees Fahrenheit and the duct burner has a plate rate of 330 MMBtu/hr. The unit operates with an inlet air cooling system, Dry Low NOx (DLN) Combusters, a Heat Recovery Steam Generator (HRSG), and a Selective Catalytic Reduction (SCR) system.

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

**SECTION E. Source Group Restrictions.**

Group Name: CSAPR

Group Description: Cross-State Air Pollution Rule (CSAPR) Requirements

Sources included in this group

ID	Name
101	NO.1A COMBINED CYCLE GAS TURBINE W/DUCT BURNER
102	NO.1B COMBINED CYCLE GAS TURBINE W/DUCT BURNER
105	NO.2A COMBINED CYCLE GAS TURBINE W/DUCT BURNER
106	NO.2B COMBINED CYCLE GAS TURBINE W/ DUCT BURNER

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.**

[40 C.F.R. § 52.2040 and 40 C.F.R. §52.2041 (relating to interstate pollutant transport provisions)]

(a) The owner and operator of each NO_x or SO₂ source located within the State of Pennsylvania and for which requirements are set forth under the Federal CSAPR in 40 C.F.R. Part 97 must comply with such applicable requirements. The obligation to comply with these requirements in Part 97 will be eliminated by the promulgation of an approval by the EPA's Administrator of a revision to the Pennsylvania State Implementation Plan (SIP) as meeting the requirements of CSAPR, except to the extent the EPA Administrator's approval is partial or conditional or unless such approval is under 40 C.F.R. § 51.123 or under 40 C.F.R. § 51.124. Upon the approval of Pennsylvania's State Implementation Plan, the owner and operator shall comply with 25 Pa. Code §§ 145.8 through 145.223.

(b) Notwithstanding any provisions 40 C.F.R. § 52.2040, if, at the time of such approval of the State's SIP, the EPA's Administrator has already allocated CSAPR NO_x Ozone Season allowances to sources in the State for any years, the provisions of 40 C.F.R. Part 97 authorizing the Administrator to complete the allocation of CSAPR NO_x Ozone Season allowances for those years shall continue to apply, unless the Administrator approves a SIP provision that provides for the allocation of the remaining CSAPR NO_x Ozone Season allowances for those years.

**SECTION E. Source Group Restrictions.****# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Transport Rule (TR) NO_x Annual Trading Program requirements (40 CFR § 97.406)]

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§ 97.413 through 97.418.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§ 97.430 through 97.435.

(2) The emissions data determined in accordance with §§ 97.430 through 97.435 shall be used to calculate allocations of TR NO_x Annual allowances under §§ 97.411(a)(2) and (b) and 97.412 and to determine compliance with the TR NO_x Annual emissions limitation and assurance provisions under paragraph (c) of this section, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§ 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_x emissions requirements.

(1) TR NO_x Annual emissions limitation.

(i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall hold, in the source's compliance account, TR NO_x Annual allowances available for deduction for such control period under § 97.424(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Annual units at the source.

(ii) If total NO_x emissions during a control period in a given year from the TR NO_x Annual units at a TR NO_x Annual source are in excess of the TR NO_x Annual emissions limitation set forth in paragraph (c)(1)(i) of this section, then:

(A) The owners and operators of the source and each TR NO_x Annual unit at the source shall hold the TR NO_x Annual allowances required for deduction under § 97.424(d); and

(B) The owners and operators of the source and each TR NO_x Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

(2) TR NO_x Annual assurance provisions.

(i) If total NO_x emissions during a control period in a given year from all TR NO_x Annual units at TR NO_x Annual sources in a State (and Indian country within the borders of such State) exceed the State assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the State and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_x Annual allowances available for deduction for such control period under § 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with § 97.425(b), of multiplying—

(A) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such

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State) for such control period, by which each common designated representative's share of such NOx emissions exceeds the respective common designated representative's assurance level; and

(B) The amount by which total NOx emissions from all TR NOx Annual units at TR NOx Annual sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level.

(ii) The owners and operators shall hold the TR NOx Annual allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii) Total NOx emissions from all TR NOx Annual units at TR NOx Annual sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total NOx emissions exceed the sum, for such control period, of the State NOx Annual trading budget under § 97.410(a) and the State's variability limit under § 97.410(b).

(iv) It shall not be a violation of this subpart or of the Clean Air Act if total NOx emissions from all TR NOx Annual units at TR NOx Annual sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representative's share of total NOx emissions from the TR NOx Annual units at TR NOx Annual sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level.

(v) To the extent the owners and operators fail to hold TR NOx Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section,

(A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B) Each TR NOx Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

(3) Compliance periods.

(i) A TR NOx Annual unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under § 97.430(b) and for each control period thereafter.

(ii) A TR NOx Annual unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under § 97.430(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i) A TR NOx Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a control period in a given year must be a TR NOx Annual allowance that was allocated for such control period or a control period in a prior year.

(ii) A TR NOx Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) of this section for a control period in a given year must be a TR NOx Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR NOx Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with this subpart.

(6) Limited authorization. A TR NOx Annual allowance is a limited authorization to emit one ton of NOx during the control period in one year. Such authorization is limited in its use and duration as follows:

**SECTION E. Source Group Restrictions.**

(i) Such authorization shall only be used in accordance with the TR NO_x Annual Trading Program; and

(ii) Notwithstanding any other provision of this subpart, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR NO_x Annual allowance does not constitute a property right.

(d) Title V permit requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_x Annual allowances in accordance with this subpart.

(2) A description of whether a unit is required to monitor and report NO_x emissions using a continuous emission monitoring system (under subpart H of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under § 75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§ 97.430 through 97.435 may be added to, or changed in, a title V permit using minor permit modification procedures in accordance with §§ 70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§ 70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter.

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i) The certificate of representation under § 97.416 for the designated representative for the source and each TR NO_x Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under § 97.416 changing the designated representative.

(ii) All emissions monitoring information, in accordance with this subpart.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO_x Annual Trading Program.

(2) The designated representative of a TR NO_x Annual source and each TR NO_x Annual unit at the source shall make all submissions required under the TR NO_x Annual Trading Program, except as provided in § 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in parts 70 and 71 of this chapter.

(f) Liability.

(1) Any provision of the TR NO_x Annual Trading Program that applies to a TR NO_x Annual source or the designated representative of a TR NO_x Annual source shall also apply to the owners and operators of such source and of the TR NO_x Annual units at the source.

(2) Any provision of the TR NO_x Annual Trading Program that applies to a TR NO_x Annual unit or the designated representative of a TR NO_x Annual unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities. No provision of the TR NO_x Annual Trading Program or exemption under § 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_x Annual

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source or TR NO_x Annual unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

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

[CSAPR NO_x Ozone Season Group 3 Trading Program (40 CFR § 97.1006)]

(a) Designated representative requirements. The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§ 97.1013 through 97.1018.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each CSAPR NO_x Ozone Season Group 3 source and each CSAPR NO_x Ozone Season Group 3 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§ 97.1030 through 97.1035.

(2) The emissions and heat input data determined in accordance with §§ 97.1030 through 97.1035 shall be used to calculate allocations of CSAPR NO_x Ozone Season Group 3 allowances under §§ 97.1011 and 97.1012 and to determine compliance with the CSAPR NO_x Ozone Season Group 3 primary and secondary emissions limitations and assurance provisions under paragraph (c) of this section, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§ 97.1030 through 97.1035 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_x emissions requirements —

(1) CSAPR NO_x Ozone Season Group 3 primary and secondary emissions limitations —

(i) Primary emissions limitation. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Ozone Season Group 3 source and each CSAPR NO_x Ozone Season Group 3 unit at the source shall hold, in the source's compliance account, CSAPR NO_x Ozone Season Group 3 allowances available for deduction for such control period under § 97.1024(a) in an amount not less than the amount determined under § 97.1024(b), comprising the sum of—

(A) The tons of total NO_x emissions for such control period from all CSAPR NO_x Ozone Season Group 3 units at the source; plus

(B) Two times the excess, if any, over 50 tons of the sum, for all CSAPR NO_x Ozone Season Group 3 units at the source and all calendar days of the control period, of any NO_x emissions from such a unit on any calendar day of the control period exceeding the NO_x emissions that would have occurred on that calendar day if the unit had combusted the same daily heat input and emitted at any backstop daily NO_x emissions rate applicable to the unit for that control period.

(ii) Exceedances of primary emissions limitation. If total NO_x emissions during a control period in a given year from the CSAPR NO_x Ozone Season Group 3 units at a CSAPR NO_x Ozone Season Group 3 source are in excess of the CSAPR NO_x Ozone Season Group 3 primary emissions limitation set forth in paragraph (c)(1)(i) of this section, then:

(A) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 3 unit at the source shall hold the CSAPR NO_x Ozone Season Group 3 allowances required for deduction under § 97.1024(d); and

(B) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 3 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

(iii) Secondary emissions limitation. The owner or operator of a CSAPR NO_x Ozone Season Group 3 unit subject to an emissions limitation under § 97.1025(c)(1) shall not discharge, or allow to be discharged, emissions of NO_x to the atmosphere during a control period in excess of the tonnage amount calculated in accordance with § 97.1025(c)(2).

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(iv) Exceedances of secondary emissions limitation. If total NOX emissions during a control period in a given year from a CSAPR NOX Ozone Season Group 3 unit are in excess of the amount of a CSAPR NOX Ozone Season Group 3 secondary emissions limitation applicable to the unit for the control period under paragraph (c)(1)(iii) of this section, then the owners and operators of the unit and the source at which the unit is located shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

(2) CSAPR NOX Ozone Season Group 3 assurance provisions.

(i) If total NOX emissions during a control period in a given year from all CSAPR NOX Ozone Season Group 3 units at CSAPR NOX Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) exceed the State assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NOX emissions during such control period exceeds the common designated representative's assurance level for the State and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NOX Ozone Season Group 3 allowances available for deduction for such control period under § 97.1025(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with § 97.1025(b), of multiplying—

(A) The quotient of the amount by which the common designated representative's share of such NOX emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such State) for such control period, by which each common designated representative's share of such NOX emissions exceeds the respective common designated representative's assurance level; and

(B) The amount by which total NOX emissions from all CSAPR NOX Ozone Season Group 3 units at CSAPR NOX Ozone Season Group 3 sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level.

(ii) The owners and operators shall hold the CSAPR NOX Ozone Season Group 3 allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period.

(iii) Total NOX emissions from all CSAPR NOX Ozone Season Group 3 units at CSAPR NOX Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total NOX emissions exceed the sum, for such control period, of the State NOX Ozone Season Group 3 trading budget under § 97.1010(a) and the State's variability limit under § 97.1010(e).

(iv) It shall not be a violation of this subpart or of the Clean Air Act if total NOX emissions from all CSAPR NOX Ozone Season Group 3 units at CSAPR NOX Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representative's share of total NOX emissions from the CSAPR NOX Ozone Season Group 3 units at CSAPR NOX Ozone Season Group 3 sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level.

(v) To the extent the owners and operators fail to hold CSAPR NOX Ozone Season Group 3 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section:

(A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B) Each CSAPR NOX Ozone Season Group 3 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

(3) Compliance periods.

(i) A CSAPR NOX Ozone Season Group 3 unit shall be subject to the requirements under paragraphs (c)(1)(i) and (ii) and (c)(2) of this section for the control period starting on the later of the applicable date in paragraph (c)(3)(i)(A), (B), or (C)

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of this section or the deadline for meeting the unit's monitor certification requirements under § 97.1030(b) and for each control period thereafter:

(A) May 1, 2021, for a unit in a State (and Indian country within the borders of such State) listed in § 52.38(b)(2)(iii)(A) of this chapter;

(B) May 1, 2023, for a unit in a State (and Indian country within the borders of such State) listed in § 52.38(b)(2)(iii)(B) of this chapter; or

(C) August 4, 2023, for a unit in a State (and Indian country within the borders of such State) listed in § 52.38(b)(2)(iii)(C) of this chapter.

(ii) A CSAPR NOX Ozone Season Group 3 unit shall be subject to the requirements under paragraphs (c)(1)(iii) and (iv) of this section for the control period starting on the later of May 1, 2024, or the deadline for meeting the unit's monitor certification requirements under § 97.1030(b) and for each control period thereafter.

(4) Vintage of CSAPR NOX Ozone Season Group 3 allowances held for compliance.

(i) A CSAPR NOX Ozone Season Group 3 allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a control period in a given year must be a CSAPR NOX Ozone Season Group 3 allowance that was allocated or auctioned for such control period or a control period in a prior year.

(ii) A CSAPR NOX Ozone Season Group 3 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (c)(2)(i) through (iii) of this section for a control period in a given year must be a CSAPR NOX Ozone Season Group 3 allowance that was allocated or auctioned for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each CSAPR NOX Ozone Season Group 3 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with this subpart.

(6) Limited authorization. A CSAPR NOX Ozone Season Group 3 allowance is a limited authorization to emit one ton or less of NOX during the control period in one year. Such authorization is limited in its use and duration as follows:

(i) Such authorization shall only be used in accordance with the CSAPR NOX Ozone Season Group 3 Trading Program; and

(ii) Notwithstanding any other provision of this subpart, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A CSAPR NOX Ozone Season Group 3 allowance does not constitute a property right.

(d) Title V permit requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NOX Ozone Season Group 3 allowances in accordance with this subpart.

(2) A description of whether a unit is required to monitor and report NOX emissions using a continuous emission monitoring system (under subpart H of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under § 75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§ 97.1030 through 97.1035 may be added to, or changed in, a title V permit using minor permit modification procedures in accordance with §§ 70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§ 70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter.

**SECTION E. Source Group Restrictions.****(e) Additional recordkeeping and reporting requirements.**

(1) Unless otherwise provided, the owners and operators of each CSAPR NOX Ozone Season Group 3 source and each CSAPR NOX Ozone Season Group 3 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i) The certificate of representation under § 97.1016 for the designated representative for the source and each CSAPR NOX Ozone Season Group 3 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under § 97.1016 changing the designated representative.

(ii) All emissions monitoring information, in accordance with this subpart.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NOX Ozone Season Group 3 Trading Program.

(2) The designated representative of a CSAPR NOX Ozone Season Group 3 source and each CSAPR NOX Ozone Season Group 3 unit at the source shall make all submissions required under the CSAPR NOX Ozone Season Group 3 Trading Program, except as provided in § 97.1018. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in parts 70 and 71 of this chapter.

(f) Liability.

(1) Any provision of the CSAPR NOX Ozone Season Group 3 Trading Program that applies to a CSAPR NOX Ozone Season Group 3 source or the designated representative of a CSAPR NOX Ozone Season Group 3 source shall also apply to the owners and operators of such source and of the CSAPR NOX Ozone Season Group 3 units at the source.

(2) Any provision of the CSAPR NOX Ozone Season Group 3 Trading Program that applies to a CSAPR NOX Ozone Season Group 3 unit or the designated representative of a CSAPR NOX Ozone Season Group 3 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities. No provision of the CSAPR NOX Ozone Season Group 3 Trading Program or exemption under § 97.1005 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NOX Ozone Season Group 3 source or CSAPR NOX Ozone Season Group 3 unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

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

[Transport Rule (TR) SO₂ Group 1 Trading Program requirements (40 CFR § 97.606)]

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§ 97.613 through 97.618.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§ 97.630 through 97.635.

(2) The emissions data determined in accordance with §§ 97.630 through 97.635 shall be used to calculate allocations of TR SO₂ Group 1 allowances under §§ 97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO₂ Group 1 emissions limitation and assurance provisions under paragraph (c) of this section, provided that, for each

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monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§ 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO₂ emissions requirements.

(1) TR SO₂ Group 1 emissions limitation.

(i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, TR SO₂ Group 1 allowances available for deduction for such control period under § 97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all TR SO₂ Group 1 units at the source.

(ii) If total SO₂ emissions during a control period in a given year from the TR SO₂ Group 1 units at a TR SO₂ Group 1 source are in excess of the TR SO₂ Group 1 emissions limitation set forth in paragraph (c)(1)(i) of this section, then:

(A) The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall hold the TR SO₂ Group 1 allowances required for deduction under § 97.624(d); and

(B) The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

(2) TR SO₂ Group 1 assurance provisions.

(i) If total SO₂ emissions during a control period in a given year from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) exceed the State assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO₂ emissions during such control period exceeds the common designated representative's assurance level for the State and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR SO₂ Group 1 allowances available for deduction for such control period under § 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with § 97.625(b), of multiplying—

(A) The quotient of the amount by which the common designated representative's share of such SO₂ emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such State) for such control period, by which each common designated representative's share of such SO₂ emissions exceeds the respective common designated representative's assurance level; and

(B) The amount by which total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level.

(ii) The owners and operators shall hold the TR SO₂ Group 1 allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii) Total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total SO₂ emissions exceed the sum, for such control period, of the State SO₂ Group 1 trading budget under § 97.610(a) and the State's variability limit under § 97.610(b).

(iv) It shall not be a violation of this subpart or of the Clean Air Act if total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representative's share of total SO₂ emissions from the TR SO₂ Group

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1 units at TR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level.

(v) To the extent the owners and operators fail to hold TR SO₂ Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section,

(A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B) Each TR SO₂ Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

(3) Compliance periods.

(i) A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under § 97.630(b) and for each control period thereafter.

(ii) A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under § 97.630(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i) A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a control period in a given year must be a TR SO₂ Group 1 allowance that was allocated for such control period or a control period in a prior year.

(ii) A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) of this section for a control period in a given year must be a TR SO₂ Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR SO₂ Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with this subpart.

(6) Limited authorization. A TR SO₂ Group 1 allowance is a limited authorization to emit one ton of SO₂ during the control period in one year. Such authorization is limited in its use and duration as follows:

(i) Such authorization shall only be used in accordance with the TR SO₂ Group 1 Trading Program; and

(ii) Notwithstanding any other provision of this subpart, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR SO₂ Group 1 allowance does not constitute a property right.

(d) Title V permit requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR SO₂ Group 1 allowances in accordance with this subpart.

(2) A description of whether a unit is required to monitor and report SO₂ emissions using a continuous emission monitoring system (under subpart H of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under § 75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§ 97.630 through 97.635 may be added to, or changed in, a title V permit using minor permit modification procedures in accordance with §§ 70.7(e)(2)

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and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§ 70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter.

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i) The certificate of representation under § 97.616 for the designated representative for the source and each TR SO₂ Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under § 97.616 changing the designated representative.

(ii) All emissions monitoring information, in accordance with this subpart.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR SO₂ Group 1 Trading Program.

(2) The designated representative of a TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall make all submissions required under the TR SO₂ Group 1 Trading Program, except as provided in § 97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in parts 70 and 71 of this chapter.

(f) Liability.

(1) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 source or the designated representative of a TR SO₂ Group 1 source shall also apply to the owners and operators of such source and of the TR SO₂ Group 1 units at the source.

(2) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 unit or the designated representative of a TR SO₂ Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities. No provision of the TR SO₂ Group 1 Trading Program or exemption under § 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR SO₂ Group 1 source or TR SO₂ Group 1 unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

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

**SECTION E. Source Group Restrictions.**

Group Name: NSPS KKKK

Group Description: NSPS Subpart KKKK Requirements

Sources included in this group

ID	Name
101	NO.1A COMBINED CYCLE GAS TURBINE W/DUCT BURNER
102	NO.1B COMBINED CYCLE GAS TURBINE W/DUCT BURNER
105	NO.2A COMBINED CYCLE GAS TURBINE W/DUCT BURNER
106	NO.2B COMBINED CYCLE GAS TURBINE W/ DUCT BURNER

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4320.]

(a) The permittee shall meet the emission limits for NO_x as stated below:

15 ppm @ 15% O₂ or 54 ng/J of useful output (0.43 lb/MWhr) when turbines are operating greater than or equal to 75% of peak load and at a temperature greater than or equal to 0°F.

96 ppm @ 15% O₂ or 590 ng/J of useful output (4.7 lb/MWhr) when turbines are operating at less than 75% of peak load or temperatures less than 0°F.

(b) If you have two or more turbines that are connected to a single generator, each turbine with or without duct burner firing must meet the emission limits for NO_x. Excess NO_x emissions shall be identified from CEMS data per 40 CFR § 60.4350. These emissions limits are based on a 30-day rolling average.

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4330.]

(a) For each combustion turbine, the permittee shall not cause SO₂ emissions into the atmosphere in excess of 110 nanograms per Joule (ng/J) (0.90 pounds per megawatt-hour (lb/MWh)) gross output; or, as an alternative

(b) The permittee shall not use any fuel which contains total potential sulfur emissions in excess of 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input.

[Note: Combustion of only pipeline natural gas will show compliance with paragraph (b).]

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4340(b).]

(a) The permittee shall install, calibrate, maintain and operate a continuous emission monitoring system as described in 40 CFR §§ 60.4335(b) and 60.4345.

(b) 40 CFR § 60.4335(b) states, the permittee may use continuous emission monitoring, as follows:

**SECTION E. Source Group Restrictions.**

- (1) Install, certify, maintain, and operate a continuous emission monitoring system (CEMS) consisting of a NO_x monitor and a diluent gas (oxygen (O₂) or carbon dioxide (CO₂)) monitor, to determine the hourly NO_x emission rate in parts per million (ppm) or pounds per million British thermal units (lb/MMBtu); and
- (2) For units complying with the output-based standard, install, calibrate, maintain, and operate a fuel flow meter (or flow meters) to continuously measure the heat input to the affected unit; and
- (3) For units complying with the output-based standard, install, calibrate, maintain, and operate a watt meter (or meters) to continuously measure the gross electrical output of the unit in megawatt-hours.

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4345.]

- (a) Each NO_x diluent CEMS must be installed and certified according to Performance Specification 2 (PS 2) in appendix B to 40 CFR Part 60, except the 7-day calibration drift is based on unit operating days, not calendar days. With state approval, Procedure 1 in appendix F to 40 CFR Part 60 is not required. Alternatively, a NO_x diluent CEMS that is installed and certified according to appendix A of 40 CFR Part 75 of this chapter is acceptable for use under NSPS Subpart KKKK. The relative accuracy test audit (RATA) of the CEMS shall be performed on a lb/MMBtu basis.
- (b) As specified in 40 CFR § 60.13(e)(2), during each full unit operating hour, both the NO_x monitor and the diluent monitor must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour, to validate the hour. For partial unit operating hours, at least one valid data point must be obtained with each monitor for each quadrant of the hour in which the unit operates. For unit operating hours in which required quality assurance and maintenance activities are performed on the CEMS, a minimum of two valid data points (one in each of two quadrants) are required for each monitor to validate the NO_x emission rate for the hour.
- (c) Each fuel flowmeter shall be installed, calibrated, maintained, and operated according to the manufacturer's instructions. Alternatively, with state approval, fuel flowmeters that meet the installation, certification, and quality assurance requirements of appendix D to 40 CFR Part 75 of this chapter are acceptable for use under NSPS Subpart KKKK.
- (d) Each watt meter, steam flow meter, and each pressure or temperature measurement device shall be installed, calibrated, maintained, and operated according to manufacturer's instructions.
- (e) The owner or operator shall develop and keep on-site a quality assurance (QA) plan for all of the continuous monitoring equipment described in paragraphs (a), (c), and (d) of this section. For the CEMS and fuel flow meters, the owner or operator may, with state approval, satisfy the requirements of this paragraph by implementing the QA program and plan described in section 1 of appendix B to 40 CFR Part 75 of this chapter.

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4360.]

The permittee shall monitor the total sulfur content of the fuel being fired in the turbine, except as provided in 40 CFR § 60.4365.

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

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

The permittee 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. The permittee shall use one of the following sources of

**SECTION E. Source Group Restrictions.**

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 40 CFR Part 75 is required.

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4380.]

For the purpose of reports required under 40 CFR § 60.7(c), periods of excess emissions and monitor downtime that must be reported are defined as follows:

(a) N/A

(b) For turbines using continuous emission monitoring, as described in 40 CFR §§ 60.4335(b) and 60.4345:

(1) An excess emissions is any unit operating period in which the 30-day rolling average NO_x emission rate exceeds the applicable emission limit in 40 CFR § 60.4320. For the purposes of this subpart, a "30-day rolling average NO_x emission rate" is the arithmetic average of all hourly NO_x emission data in ppm or ng/J (lb/MWh) measured by the continuous emission monitoring equipment for a given day and the twenty-nine unit operating days immediately preceding that unit operating day. A new 30-day average is calculated each unit operating day as the average of all hourly NO_x emissions rates for the preceding 30 unit operating days if a valid NO_x emission rate is obtained for at least 75 percent of all operating hours.

(2) A period of monitor downtime is any unit operating hour in which the data for any of the following parameters are either missing or invalid: NO_x concentration, CO₂ or O₂ concentration, fuel flow rate, steam flow rate, steam temperature, steam pressure, or megawatts. The steam flow rate, steam temperature, and steam pressure are only required if you will use this information for compliance purposes.

(3) For operating periods during which multiple emissions standards apply, the applicable standard is the average of the applicable standards during each hour. For hours with multiple emissions standards, the applicable limit for that hour is determined based on the condition that corresponded to the highest emissions standard.

(c) N/A

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4350.]

For purposes of identifying excess emissions:

(a) All CEMS data must be reduced to hourly averages as specified in 40 CFR § 60.13(h).

(b) For each unit operating hour in which a valid hourly average, as described in 40 CFR § 60.4345(b), is obtained for both

**SECTION E. Source Group Restrictions.**

NOx and diluent monitors, the data acquisition and handling system must calculate and record the hourly NOx emission rate in units of ppm or lb/MMBtu, using the appropriate equation from method 19 in appendix A of 40 CFR Part 60. For any hour in which the hourly average O2 concentration exceeds 19.0 percent O2 (or the hourly average CO2 concentration is less than 1.0 percent CO2), a diluent cap value of 19.0 percent O2 or 1.0 percent CO2 (as applicable) may be used in the emission calculations.

(c) If you have installed and certified a NOx diluent CEMS to meet the requirements of 40 CFR Part 75, states can approve that only quality assured data from the CEMS shall be used to identify excess emissions under 40 CFR Part 60, Subpart KKKK. Periods where the missing data substitution procedures in subpart D of 40 CFR Part 75 are applied are to be reported as monitor downtime in the excess emissions and monitoring performance report required under 40 CFR § 60.7(c).

(d) All required fuel flow rate, steam flow rate, temperature, pressure, and megawatt data must be reduced to hourly averages.

(e) Calculate the hourly average NOx emission rates, in units of the emission standards under 40 CFR § 60.4320, using either ppm for units complying with the concentration limit or the following equation for units complying with the output based standard:

(1) For simple-cycle operation:

$$E = (\text{NOx})_h * (\text{HI})_h / P \text{ (Eq. 1)}$$

Where:

E = hourly NOx emission rate, in lb/MWh,

(NOx)_h = hourly NOx emission rate, in lb/MMBtu,

(HI)_h = hourly heat input rate to the unit, in MMBtu/h, measured using the fuel flowmeter(s), e.g., calculated using Equation D-15a in appendix D to part 75 of this chapter, and

P = gross energy output of the combustion turbine in MW.

(2) For combined-cycle and combined heat and power complying with the output-based standard, use Equation 1 of this subpart, except that the gross energy output is calculated as the sum of the total electrical and mechanical energy generated by the combustion turbine, the additional electrical or mechanical energy (if any) generated by the steam turbine following the heat recovery steam generator, and 100 percent of the total useful thermal energy output that is not used to generate additional electricity or mechanical output, expressed in equivalent MW, as in the following equations:

$$P = (\text{Pe})_t + (\text{Pe})_c + P_s + P_o \text{ (Eq. 2)}$$

Where:

P = gross energy output of the stationary combustion turbine system in MW.

(Pe)_t = electrical or mechanical energy output of the combustion turbine in MW,

(Pe)_c = electrical or mechanical energy output (if any) of the steam turbine in MW, and

$$P_s = (Q * H) / (3.413 * 10^6 \text{ Btu/MWh}) \text{ (Eq. 3)}$$

Where:

P_s = useful thermal energy of the steam, measured relative to ISO conditions, not used to generate additional electric or mechanical output, in MW,

**SECTION E. Source Group Restrictions.**

Q = measured steam flow rate in lb/h,

H = enthalpy of the steam at measured temperature and pressure relative to ISO conditions, in Btu/lb, and $3.413 \times 106 =$ conversion from Btu/h to MW.

Po = other useful heat recovery, measured relative to ISO conditions, not used for steam generation or performance enhancement of the combustion turbine.

(f) For combined cycle and combined heat and power units with heat recovery, use the calculated hourly average emission rates from paragraph (e) of this section to assess excess emissions on a 30 unit operating day rolling average basis, as described in 40 CFR § 60.4380(b)(1).

V. REPORTING REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 60.4375.]

(a) For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content under 40 CFR Part 60, Subpart KKKK, the permittee shall submit reports of excess emissions and monitor downtime, in accordance with 40 CFR § 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 40 CFR § 60.4340(a), the permittee shall submit a written report of the results of each performance test before the close of business on the 60th day following the completion of the performance test.

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

[Additional authority for this permit condition is also derived from 40 CFR § 60.4395.]

All reports required under 40 CFR § 60.7(c) must be postmarked by the 30th day following the end of each 6-month period.

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

The permittee is subject to New Source Performance Standards from 40 CFR Part 60, Subpart KKKK. In accordance with 40 CFR § 60.4; copies of all requests, reports, applications, submittals and other communications regarding affected sources shall be forwarded to both the Department at the address listed below, and U.S. EPA at one of the points of contact listed below unless otherwise noted.

PADEP
Air Quality Program
2 E. Main Street
Norristown, PA 19401

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

Region III e-mail box for electronic compliance certifications:
R3_APD_Permits@epa.gov

**SECTION E. Source Group Restrictions.**

NSPS and MACT reports that are submitted electronically to U.S. EPA's Central Data Exchange:
<https://cdx.epa.gov/>

VI. WORK PRACTICE REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR § 60.4333.]

(a) The permittee shall operate and maintain their 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) When an affected unit with heat recovery utilizes a common steam header with one or more combustion turbines, the owner or operator shall either:

(1) Determine compliance with the applicable NO_x emissions limits by measuring the emissions combined with the emissions from the other unit(s) utilizing the common heat recovery unit; or

(2) Develop, demonstrate, and provide information satisfactory to the Administrator on methods for apportioning the combined gross energy output from the heat recovery unit for each of the affected combustion turbines. The Administrator may approve such demonstrated substitute methods for apportioning the combined gross energy output measured at the steam turbine whenever the demonstration ensures accurate estimation of emissions related under this part.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: RACT III

Group Description: Pennsylvania RACT II Requirements

Sources included in this group

ID	Name
101	NO.1A COMBINED CYCLE GAS TURBINE W/DUCT BURNER
102	NO.1B COMBINED CYCLE GAS TURBINE W/DUCT BURNER
105	NO.2A COMBINED CYCLE GAS TURBINE W/DUCT BURNER
106	NO.2B COMBINED CYCLE GAS TURBINE W/ DUCT BURNER

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §129.112]****Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

The combined cycle gas turbines with duct burners (Source IDs 101, 102, 105 and 106) shall each meet the applicable VOC RACT emission limitation of 2 ppmvd VOC (as propane) @ 15% O₂.

[Compliance with this condition assures compliance with 25 Pa. Code § 129.97]

002 [25 Pa. Code §129.113]**Facility-wide or system-wide NO_x emissions averaging plan general requirements**

The combined cycle gas turbines with duct burners (Source IDs 101, 102, 105, and 106) shall meet the applicable NO_x RACT emission limitation of 4 ppm @ 15% O₂ by averaging NO_x emissions on a facility-wide averaging basis in accordance with 25 Pa. Code § 129.113 and the site-specific averaging plan, as outlined below:

(a) The facility averaging shall be a summation of the actual hourly mass emissions from all four combustion turbines (Source IDs 101, 102, 105, and 106) for a 30-operating-day period and comparing it to the calculated allowable mass emissions for the same period. Actual NO_x mass emissions shall include emissions during start-ups, shutdowns, retuning, automatic runback and malfunctions. If any unit operates, even if only one unit operates in a given calendar day, then that day shall be one of the days in the 30-operating-day period for the facility.

Hourly NO_x mass emission rates (lbs per hour) shall be calculated by converting the hourly NO_x concentration values (ppmvd @ 15% O₂) to an hourly NO_x emissions rate (lb/MMBtu), multiplying the lb/MMBtu by the hourly unit heat input (MMBtu/hr) and the unit operating time.

(b) Heat Input - Unit heat input shall be calculated following the procedures in Appendix D to 40 CFR Part 75—Optional SO₂ Emissions Data Protocol for Gas-Fired and Oil-Fired Units. This requires a monthly fuel sample to be drawn from the gas fuel source and sent for analysis of Gross Calorific Values (GCV). The Data Acquisition and Handling System (DAHS) shall use the monthly GCV value and the measured hourly fuel flow volume to determine the heat input for each unit in terms of MMBtu (million British thermal units).

(c) Actual NO_x Mass - The measured and calculated hourly NO_x ppmvd @ 15% O₂ emissions shall be used to calculate the hourly NO_x mass emissions using the following equation:

$$\text{NO}_x (\text{lbs}) = K * \text{Ca} * \text{Fd} * [20.9 / (20.9 - 15.0)] * H * t$$

Where:

K = Conversion Constant for NO_x, 1.194×10^{-7}

Ca = NO_x ppmvd @ 15% O₂ CEMS value

Fd = Dry Fuel Factor for natural gas, 8710

H = Heat input value (MMBtu/hr), as determined by §40CFR75, Appendix D

t = time weighting (minutes of operation in hour/60)

(d) Allowable NO_x Mass - The allowable RACT NO_x concentration (4 ppmvd @ 15% O₂) will be used to calculate the allowable hourly NO_x mass emissions using the following equation:

**SECTION E. Source Group Restrictions.**

$$\text{NOx (lbs)} = K * \text{CI} * \text{Fd} * [20.9 / (20.9 - 15.0)] * H * t$$

Where:

CI = Allowable NOx RACT, 4 ppmvd @ 15% O₂

All other factors are the same as for actual NOx mass

(e) 30 Operating Day Values -

Actual NOx mass emissions (lbs) shall be calculated for each hour for each unit. Then, all of the hours for the facility in the 30-operating day period shall be totaled.

Allowable NOx mass emissions (lbs) shall be calculated for each hour for each unit. Then, all of the hours for the facility in the 30-operating day period shall be totaled.

Compliance shall be determined using the following equation from 25 Pa. Code § 129.98(e):

$$[\text{Sum (i,n)} = E_i \text{ actual}] < \text{or} = [\text{Sum (i,n)} = E_i \text{ allowable}]$$

Where:

$E_i \text{ actual}$ = The actual NOx mass emissions, including emissions during start-ups, shutdowns, and malfunctions, for air contamination source i on a 30-day rolling basis.

$E_i \text{ allowable}$ = The allowable NOx mass emissions computed using the allowable emission rate limitation (4 ppm NOx @ 15% O₂) for air contamination source i on a 30-day rolling basis specified in 25 Pa. Code § 129.112.

n = 4, the number of air contamination sources included in the NOx emissions facility averaging plan.

The facility will be in compliance with the presumptive NOx RACT requirements when the actual NOx mass emissions (lbs) from all four stationary combustion turbine units in a facility 30-operating day period are less than or equal to the allowable NOx mass emissions (lbs) during the same 30-operating day period, both values rounded to the nearest pound.

(f) Invalid Emissions Data Periods -

The four stationary combustion turbine units at Fairless Energy, LLC operate on a single fuel type - natural gas. Therefore, the presumptive RACT allowable limit is the same for every hour of operation.

40 CFR Part 75 missing data substitution procedures listed in Subpart D or Appendix D will be utilized as appropriate during invalid hours when calculating NOx mass emissions (lbs) and allowable NOx mass emissions (lbs). Substituted data, when present, will be utilized to calculate the 30-operating day rolling average emission rate.

[Compliance with this condition assures compliance with 25 Pa. Code § 129.98]

II. TESTING REQUIREMENTS.

003 [25 Pa. Code §129.115]

Written notification, compliance demonstration and recordkeeping and reporting requirements

Compliance with the VOC RACT emission limit shall be demonstrated by the following:

- (a) Performance testing in accordance with the procedures outlined in 25 Pa. Code, Chapter 139, Subchapter A (relating to sampling and testing methods and procedures).
- (b) Conducting an initial performance test no later than January 1, 2017.
- (c) Subsequent tests shall be conducted one time in each 5-year calendar period.

**SECTION E. Source Group Restrictions.**

[Compliance with this condition assures compliance with 25 Pa. Code § 129.100]

III. MONITORING REQUIREMENTS.**# 004 [25 Pa. Code §129.115]****Written notification, compliance demonstration and recordkeeping and reporting requirements**

For an air contamination source with a CEMS, the permittee shall conduct monitoring in accordance with the requirements of Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary source) using a 30-operating day rolling average.

[Compliance with this condition assures compliance with 25 Pa. Code § 129.100]

IV. RECORDKEEPING REQUIREMENTS.**# 005 [25 Pa. Code §129.115]****Written notification, compliance demonstration and recordkeeping and reporting requirements**

The permittee shall maintain records of required monitoring information that include the following:

(a) Maintain written records demonstrating that the unit installation, maintenance, and operation conforms with the manufacturer's specifications and with good operating practices.

(b) Retain all monitoring data, calibration data, QA/QC data, and any additional information required in 25 Pa. Code, Chapter 139, Subchapter C.

[Compliance with this condition assures compliance with 25 Pa. Code § 129.100]

006 [25 Pa. Code §129.115]**Written notification, compliance demonstration and recordkeeping and reporting requirements**

The permittee shall keep records to demonstrate compliance with 25 Pa. Code §§ 129.112 - 129.113 in the following manner:

(a) The records must include sufficient data and calculations to demonstrate that the requirements of §§ 129.112 - 129.113 are met.

(b) Data or information required to determine compliance shall be recorded and maintained in a time frame consistent with the averaging period of the requirement.

[Compliance with this condition assures compliance with 25 Pa. Code § 129.100]

007 [25 Pa. Code §129.115]**Written notification, compliance demonstration and recordkeeping and reporting requirements**

Records demonstrating compliance with 25 Pa. Code § 129.115 shall be retained by the permittee for 5 years and made available to the Department upon receipt of a written request.

[Compliance with this condition assures compliance with 25 Pa. Code § 129.100]

V. REPORTING REQUIREMENTS.**# 008 [25 Pa. Code §129.113]****Facility-wide or system-wide NO_x emissions averaging plan general requirements**

In accordance with 25 Pa. Code § 129.113, the permittee shall submit reports and keep records to demonstrate compliance with the requirements of 25 Pa. Code § 129.113 for each source included in the NO_x emissions averaging plan. Reports shall be submitted to the Department in accordance with the Department's electronic monitoring plan on a quarterly basis for each source included in the NO_x emissions averaging plan.

[Compliance with this condition assures compliance with 25 Pa. Code § 129.98]

**SECTION E. Source Group Restrictions.****VI. WORK PRACTICE REQUIREMENTS.****# 009 [25 Pa. Code §129.112]****Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

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

[Compliance with this condition assures compliance with 25 Pa. Code § 129.97]

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
128	(2) NATURAL GAS PIPELINE HEATERS		
Emission Limit		Pollutant	
0.035	Lbs/MMBTU		NOX
1.100	Lbs/Hr		NOX
4.800	Tons/Yr	Total	NOX
301	AUXILIARY BOILER		
Emission Limit		Pollutant	
0.037	Lbs/MMBTU		CO
5.800	Tons/Yr		CO
50.000	PPMV	3% O2, dry basis	CO
0.035	Lbs/MMBTU		NOX
5.600	Tons/Yr		NOX
30.000	PPMV	3% O2, dry basis	NOX
0.008	Lbs/MMBTU		PM10
1.600	Tons/Yr		PM10
101	NO.1A COMBINED CYCLE GAS TURBINE W/DUCT BURNER		
Emission Limit		Pollutant	
10.000	PPMV	Runback & Retuning	Ammonia
10.000	PPMV	dry basis, 15% O2	Ammonia
21.000	Lbs/Hr	Runback & Retuning	Ammonia
3.000	PPMV	dry basis, 15% O2	CO
3,380.000	Lbs/Hr	Runback & Retuning	CO
2.500	PPMV	dry basis, 15% O2	NOX
607.000	Lbs/Hr	Runback & Retuning	NOX
0.002	Lbs/MMBTU		SO2
10.900	Lbs/Hr	Runback & Retuning	SO2
0.014	Lbs/MMBTU		TSP
0.020	gr/DRY FT3		TSP
133.000	Lbs/Hr	Runback & Retuning	TSP
0.002	Lbs/MMBTU		VOC
2.000	PPMV	dry basis, @ 15% O2	VOC
23.000	Lbs/Hr	Runback & Retuning	VOC
102	NO.1B COMBINED CYCLE GAS TURBINE W/DUCT BURNER		
Emission Limit		Pollutant	
10.000	PPMV	Runback & Retuning	Ammonia
10.000	PPMV	dry basis, 15% O2	Ammonia
21.000	Lbs/Hr	Runback & Retuning	Ammonia
3.000	PPMV	dry basis, 15% O2	CO
3,380.000	Lbs/Hr	Runback & Retuning	CO
2.500	PPMV	dry basis, 15% O2	NOX
607.000	Lbs/Hr	Runback & Retuning	NOX
0.002	Lbs/MMBTU		SO2
10.900	Lbs/Hr	Runback & Retuning	SO2

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
	0.014	Lbs/MMBTU	TSP
	0.020	gr/DRY FT3	TSP
	133.000	Lbs/Hr Runback & Retuning	TSP
	0.002	Lbs/MMBTU	VOC
	2.000	PPMV dry basis, @ 15% O2	VOC
	23.000	Lbs/Hr Runback & Retuning	VOC
104	DIESEL FIRE PUMP		
	Emission Limit		Pollutant
	0.150	Tons/Yr	CO
	0.600	Lbs/Hr	CO
	1.200	gr/Hr horsepower-hour	CO
	0.880	Tons/Yr	NOX
	3.500	Lbs/Hr	NOX
	7.200	gr/Hr horsepower-hour	NOX
	0.020	Tons/Yr	SOX
	0.100	Lbs/Hr	SOX
	0.170	gr/Hr horsepower-hour	SOX
	0.030	Tons/Yr	TSP
	0.100	Lbs/Hr	TSP
	0.220	gr/Hr horsepower-hour	TSP
	0.060	Tons/Yr	VOC
	0.100	Lbs/Hr	VOC
	0.470	gr/Hr horsepower-hour	VOC
105	NO.2A COMBINED CYCLE GAS TURBINE W/DUCT BURNER		
	Emission Limit		Pollutant
	10.000	PPMV Runback & Retuning	Ammonia
	10.000	PPMV dry basis, 15% O2	Ammonia
	21.000	Lbs/Hr Runback & Retuning	Ammonia
	3.000	PPMV dry basis, 15% O2	CO
	3,380.000	Lbs/Hr Runback & Retuning	CO
	2.500	PPMV dry basis, 15% O2	NOX
	607.000	Lbs/Hr Runback & Retuning	NOX
	0.002	Lbs/MMBTU	SO2
	10.900	Lbs/Hr Runback & Retuning	SO2
	0.014	Lbs/MMBTU	TSP
	0.020	gr/DRY FT3	TSP
	133.000	Lbs/Hr Runback & Retuning	TSP
	0.002	Lbs/MMBTU	VOC
	2.000	PPMV dry basis, @ 15% O2	VOC
	23.000	Lbs/Hr Runback & Retuning	VOC

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
106	NO.2B COMBINED CYCLE GAS TURBINE W/ DUCT BURNER		
Emission Limit			Pollutant
10.000	PPMV	Runback & Retuning	Ammonia
10.000	PPMV	dry basis, 15% O2	Ammonia
21.000	Lbs/Hr	Runback & Retuning	Ammonia
3.000	PPMV	dry basis, 15% O2	CO
3,380.000	Lbs/Hr	Runback & Retuning	CO
2.500	PPMV	dry basis, 15% O2	NOX
607.000	Lbs/Hr	Runback & Retuning	NOX
0.002	Lbs/MMBTU		SO2
10.900	Lbs/Hr	Runback & Retuning	SO2
0.014	Lbs/MMBTU		TSP
0.020	gr/DRY FT3		TSP
133.000	Lbs/Hr	Runback & Retuning	TSP
0.002	Lbs/MMBTU		VOC
2.000	PPMV	dry basis, @ 15% O2	VOC
23.000	Lbs/Hr	Runback & Retuning	VOC
118	FOUR COOLING TOWERS		
Emission Limit			Pollutant
1.260	Lbs/Hr		TSP
5.500	Tons/Yr		TSP

Site Emission Restriction Summary

Emission Limit		Pollutant
424.700 Tons/Yr	12-month rolling	NOX
88.400 Tons/Yr	12-month rolling	VOC
360.500 Tons/Yr	12-month rolling	CO
387.600 Tons/Yr	12-month rolling	TSP
96.300 Tons/Yr	12-month rolling	SO2
29.300 Tons/Yr	(Mist) 12-month rolling	Sulfuric Acid

**SECTION H. Miscellaneous.**

#001. The following previously issued plan approvals serve as a basis for certain terms and conditions set forth in this permit.

- PA-09-0124A
- PA-09-0124B, supersedes PA-09-0124A
- PA-09-0124E
- PA-09-0124F
- PA-09-0124G

#002. The rated or maximum capacity/throughput values and emission restrictions summary listed in Sections A, D, and G of this permit, are used for descriptive purposes only and are not considered restrictions or enforceable conditions by the Department.

#003. The permit has been reopened, revised, and reissued for cause in accordance with 25 Pa. Code §127.542. The exemption language contained in Condition #005, Section C, pertaining to visible emissions requirements of 25 Pa. Code §123.41, has been removed. Visible emissions exemptions are not authorized at any time, except those which are defined in 25 Pa. Code §123.42. This significant modification is processed under APS# 694599; AUTH# 794353. Other changes being processed under this reopening are as follows:

(a) The facility shall comply with the particulate matter emission restriction of 0.02 grain per dry standard cubic foot, when the effluent gas volume is greater than 300,000 dry standard cubic feet per minute in accordance 25 Pa. Code § 123.13(c)(1)(iii).

(b) The operating modes of retuning and malfunction have been removed from the list of allowed exceptions to the short term emission limitations of each combined cycle gas turbine (Sources 101, 102, 105, and 106). Emission limits will be established through a plan approval to be submitted by the permittee.

(c) A repetitive condition in Section C was removed. This repetitive condition was the reporting requirement for submitting annual compliance certification and semi-annual deviation reports.

#004. An administrative amendment to incorporate the requirements of Plan Approval 09-0124G into the facility's Title V Operating Permit 09-00124. APS No. 694599; AUTH No. 912018.

#005. APS No. 803199; AUTH No. 962316.

(a) An administrative amendment is being processed to change the federal tax identification number. Although the tax ID number has changed, the corporate entity remains the same; therefore this amendment does not reflect an ownership change.

(b) This administrative amendment is also being processed to identify an address change. Due to Falls Township changing the names of several of the roads within the Keystone Industrial Port Complex (KIPC), the address of Fairless Energy has been changed from 50 Sinter Road to 50 Energy Drive. The physical location of the plant and its equipment have not changed.

#006. A Title V Operating Permit Renewal is being processed under APS No. 803199; AUTH No. 997681. The requirements from 40 CFR Part 63, Subpart ZZZZ (RICE MACT), have been incorporated into this permit for Source 104, the emergency diesel fire pump engine.

#007. A significant modification is being processed under APS No. 803199 and AUTH No. 1096217. This modification incorporates the applicable requirements of 40 CFR Part 60, Subpart KKKK and 40 CFR Part 97, Subparts AAAAA through CCCCC, for the Stationary Combustion Turbines (Source IDs 101, 102, 105, and 106).

Specifically, for each ozone season beginning after January 1, 2015, the Department intends to accept the surrender of annual and ozone season TR NO_x allowances as a compliance alternative to the surrender of annual and ozone season CAIR NO_x allowances if the TR allowances are surrendered for compliance purposes in a manner consistent with the surrender provisions for CAIR allowances set forth in the applicable sections specified in this notice. The Department consulted with staff in the United States Environmental Protection Agency (EPA) Region III Office in developing an alternative allowance surrender approach for compliance with the applicable SIP-approved requirements. To this end, the EPA has confirmed, in writing, that TR NO_x allowances may be surrendered as set forth in the applicable regulations in 25 Pa. Code Chapters 129 and 145. A detailed notice was published in the PA bulletin on April 4, 2015 [45 Pa.B. 1687]

This modification also incorporates applicable requirements of Pennsylvania's RACT II rules codified under 25 Pa. Code §§ 129.96 - 129.100. The Stationary Combustion Turbines (Source IDs 101, 102, 105, and 106) shall comply with the presumptive RACT limitation for VOC specified for combustion turbines, and shall also comply with the facility-wide averaging plan requirements for NO_x. The Auxiliary Boiler (Source ID 301) and the two Natural Gas Pipeline Heaters (Source ID 128) shall comply with the

**SECTION H. Miscellaneous.**

presumptive RACT requirement of conducting biennial tune-ups specified for combustion units.

#008. An administrative amendment is being processed under APS No. 541261 and AUTH No. 1170010. The permit has been reopened for cause to revise Section E, Source Group RACT II, Condition #002(f) on page 62 as it pertains to data substitution procedures for invalid data periods.

#009. This permit has been renewed. APS Id. 992939; Authorization No. 1272774

#010. This permit has been renewed. APS No. 992939; AUTH No. 1502013



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