



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

TITLE V/STATE OPERATING PERMIT

Issue Date:	February 15, 2022	Effective Date:	May 23, 2024
Revision Date:	May 23, 2024	Expiration Date:	January 31, 2027
Revision Type:	Modification		

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: 26-00535

Federal Tax Id - Plant Code: 27-3694313-1

Owner Information

Name: FAYETTE POWER CO LLC
Mailing Address: 100 ENERGY DR
MASONTOWN, PA 15461-2588

Plant Information

Plant: FAYETTE ENERGY FACILITY/MASONTOWN
Location: 26 Fayette County 26918 German Township
SIC Code: 4911 Trans. & Utilities - Electric Services

Responsible Official

Name: RONALD GEORGE
Title: PLT MGR
Phone: (618) 402 - 7060 Email: ronald.george@vistracorp.com

Permit Contact Person

Name: AARON KITZMILLER
Title: PLT ENG
Phone: (724) 583 - 8034 Email: aaron.kitzmiller@vistracorp.com

[Signature] _____

MARK R. GOROG, P.E., ENVIRONMENTAL PROGRAM MANAGER, SOUTHWEST REGION



SECTION A. Table of Contents

Section A. Facility/Source Identification

Table of Contents
Site Inventory List

Section B. General Title V Requirements

- #001 Definitions
- #002 Prohibition of Air Pollution
- #003 Property Rights
- #004 Permit Expiration
- #005 Permit Renewal
- #006 Transfer of Ownership or Operational Control
- #007 Inspection and Entry
- #008 Compliance Requirements
- #009 Need to Halt or Reduce Activity Not a Defense
- #010 Duty to Provide Information
- #011 Reopening and Revising the Title V Permit for Cause
- #012 Reopening a Title V Permit for Cause by EPA
- #013 Operating Permit Application Review by the EPA
- #014 Significant Operating Permit Modifications
- #015 Minor Operating Permit Modifications
- #016 Administrative Operating Permit Amendments
- #017 Severability Clause
- #018 Fee Payment
- #019 Authorization for De Minimis Emission Increases
- #020 Reactivation of Sources
- #021 Circumvention
- #022 Submissions
- #023 Sampling, Testing and Monitoring Procedures
- #024 Compliance Certification
- #025 Recordkeeping Requirements
- #026 Reporting Requirements
- #027 Operational Flexibility
- #028 Risk Management
- #029 Approved Economic Incentives and Emission Trading Programs
- #030 Permit Shield
- #031 Reporting
- #032 Report Format

Section C. Site Level Title V Requirements

- C-I: Restrictions
- C-II: Testing Requirements
- C-III: Monitoring Requirements
- C-IV: Recordkeeping Requirements
- C-V: Reporting Requirements
- C-VI: Work Practice Standards
- C-VII: Additional Requirements
- C-VIII: Compliance Certification
- C-IX: Compliance Schedule

Section D. Source Level Title V Requirements

- D-I: Restrictions
- D-II: Testing Requirements
- D-III: Monitoring Requirements
- D-IV: Recordkeeping Requirements
- D-V: Reporting Requirements



SECTION A. Table of Contents

D-VI: Work Practice Standards
D-VII: Additional Requirements

Note: These same sub-sections are repeated for each source!

Section E. Source Group Restrictions

E-I: Restrictions
E-II: Testing Requirements
E-III: Monitoring Requirements
E-IV: Recordkeeping Requirements
E-V: Reporting Requirements
E-VI: Work Practice Standards
E-VII: Additional Requirements

Section F. Alternative Operating Scenario(s)

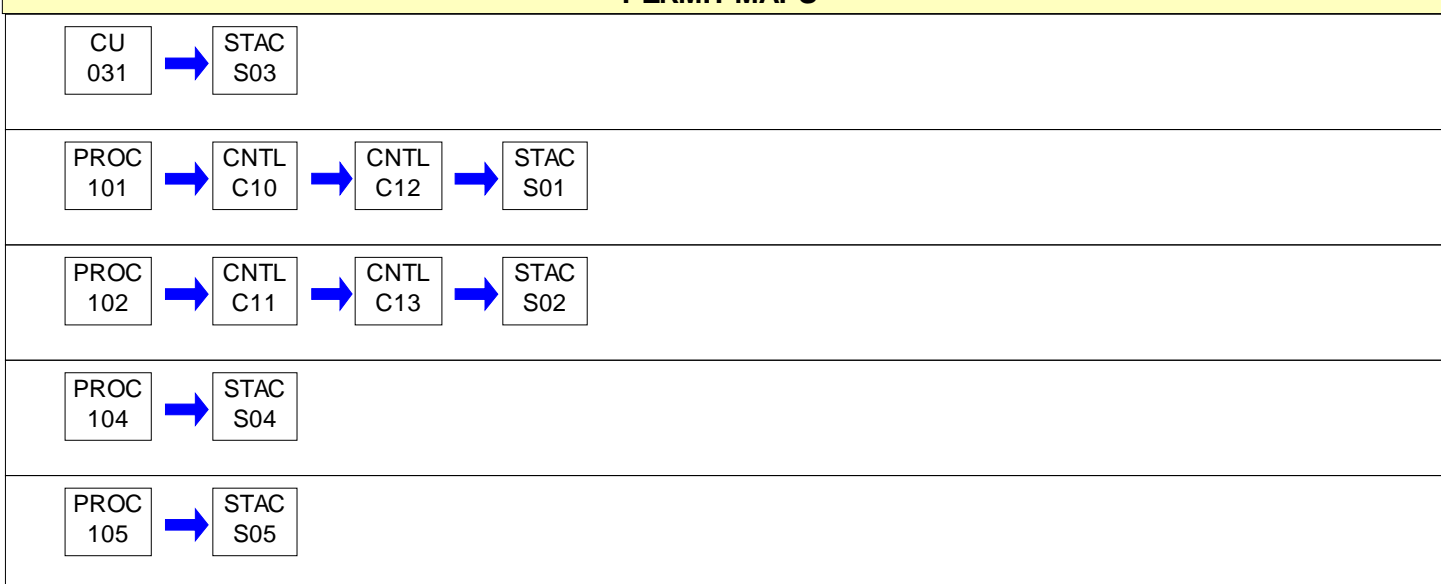
F-I: Restrictions
F-II: Testing Requirements
F-III: Monitoring Requirements
F-IV: Recordkeeping Requirements
F-V: Reporting Requirements
F-VI: Work Practice Standards
F-VII: Additional Requirements

Section G. Emission Restriction Summary

Section H. Miscellaneous

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	AUXILIARY BOILER	30.600	MMBTU/HR
		20.000	Gal/HR
		N/A	Natural Gas
101	CGT TRAIN 1 COMBINED CYCLE TURBINE	2,510.000	MMBTU/HR
		2.500	MMCF/HR
102	CGT TRAIN 2 COMBINED CYCLE TURBINE	2,510.000	MMBTU/HR
		2.500	MMCF/HR
104	DIESEL EMERGENCY FIREWATER PUMP ENGINE(265 BHP)	N/A	
105	DIESEL EMERGENCY GENERATOR ENGINE (489 BHP)	3.420	MMBTU/HR
		N/A	
106	CONDENSER COOLING TOWER		
C10	SCR UNIT 1		
C11	SCR UNIT 2		
C12	OXIDATION CATALYST UNIT 1		
C13	OXIDATION CATALYST UNIT 2		
S01	CGT STACK 1		
S02	CGT STACK 2		
S03	AUXILIARY BOILER STACK		
S04	DIESEL ENGINE FIRE PUMP STACK		
S05	EMERG DIESEL GENERATOR STACK		
S06	CONDENSER COOLING TOWER STACK		
Z06	CONDENSER COOLING TOWER FUGITIVES		

PERMIT MAPS



PERMIT MAPS

PROC
106



STAC
Z06

STAC
S06

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

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

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

No person may permit air pollution as that term is defined in the act.

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

the Department.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

#024 [25 Pa. Code § 127.513]**Compliance Certification**

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

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

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of

**SECTION B. General Title V Requirements**

the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

#025 [25 Pa. Code §§ 127.511 & Chapter 135]**Recordkeeping Requirements**

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

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

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

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

#026 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]**Reporting Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).**

<p># 001 [25 Pa. Code §121.7] Prohibition of air pollution. No person may permit air pollution as that term is defined in the act.</p>
<p># 002 [25 Pa. Code §123.1] Prohibition of certain fugitive emissions In accordance with 25 Pa. Code, §§ 123.1-2, there shall be no fugitive emissions from this facility except those that arise from the use of roads. All reasonable actions shall be taken to minimize fugitive emissions that arise from use of roads. Reasonable actions shall include, but shall not be limited to paving, sweeping, and application of water or other dust suppressants. In no case shall fugitive emissions arising from the use of roads be permitted to cross the property line.</p>
<p># 003 [25 Pa. Code §123.2] Fugitive particulate matter A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.</p>
<p># 004 [25 Pa. Code §123.31] Limitations In accordance with 25 Pa. Code, § 123.31, owner/operator shall not permit the emission of any malodorous air contaminants from any source in such a manner that the malodors, as determined by the Department, are detectable outside the owner/operator's property.</p>
<p># 005 [25 Pa. Code §123.41] Limitations A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:</p> <ul style="list-style-type: none"> (1) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour. (2) Equal to or greater than 60% at any time.
<p># 006 [25 Pa. Code §127.441] Operating permit terms and conditions. Total emissions from the facility shall not exceed the following, in any consecutive 12-month rolling total period:</p> <p>NOx - 296 tons, expressed as NO2 CO - 581 tons SOx - 128 tons, expressed as SO2 VOC - 90 tons, expressed as methane PM10 - 313 tons Formaldehyde - 9.6 tons Ammonia - 166 tons</p>
<p># 007 [25 Pa. Code §127.511] Monitoring and related recordkeeping and reporting requirements. The opacity of the exhaust from all sources at this facility shall not exceed 10% for a period or periods aggregating more than three minutes in any 1 hour. If required, opacity shall be measured using EPA Reference Method 9, found at 40 CFR 60, Appendix A, with the exception that reduction of results of observations shall be performed in accordance with the methodology prescribed by the Department.</p>
<p># 008 [25 Pa. Code §129.14] Open burning operations (a) In air basins. – Not Applicable.</p> <p>(b) Outside of air basins. No person may permit the open burning of material in an area outside of air basins in a manner that:</p>

**SECTION C. Site Level Requirements**

(1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.

(2) Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.

(3) The emissions interfere with the reasonable enjoyment of life or property.

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

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

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

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

(2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.

(3) A fire set for the prevention and control of disease or pests, when approved by the Department.

(4) - (5) Not applicable.

(6) A fire set solely for recreational or ceremonial purposes.

(7) A fire set solely for cooking food.

(d) Clearing and grubbing wastes. The following is applicable to clearing and grubbing wastes:

(1) As used in this subsection the following terms shall have the following meanings:

Air curtain destructor -- A mechanical device which forcefully projects a curtain of air across a pit in which open burning is being conducted so that combustion efficiency is increased and smoke and other particulate matter are contained.

Clearing and grubbing wastes -- Trees, shrubs, and other native vegetation which are cleared from land during or prior to the process of construction. The term does not include demolition wastes and dirt laden roots.

(2) Subsection (a) notwithstanding, clearing and grubbing wastes may be burned in a basin subject to the following requirements:

(i) Air curtain destructors shall be used when burning clearing and grubbing wastes.

(ii) Each proposed use of air curtain destructors shall be reviewed and approved by the Department in writing with respect to equipment arrangement, design and existing environmental conditions prior to commencement of burning. Proposals approved under this subparagraph need not obtain plan approval or operating permits under Chapter 127 (relating to construction modification, reactivation and operation of sources).

(iii) Approval for use of an air curtain destructor at one site may be granted for a specified period not to exceed 3 months, but may be extended for additional limited periods upon further approval by the Department.

(iv) The Department reserves the right to rescind approval granted if a determination by the Department indicates that an air pollution problem exists.

(3) Not applicable.

**SECTION C. Site Level Requirements**

(4) During an air pollution episode, open burning is limited by Chapter 137 (relating to air pollution episodes) and shall cease as specified in such chapter.

[This facility is not located in an air basin.]

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

If, at any time, the Department has cause to believe that air contaminant emissions from the sources listed in this permit may be in excess of the limitations specified in, or established pursuant to this Owner/Operator's operating permit, the Owner/Operator may be required to conduct test methods and procedures deemed necessary by the Department to determine the actual emissions rate. Such testing shall be conducted in accordance with 25 Pa. Code Chapter 139, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the company that testing is required.

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

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

011 [25 Pa. Code §139.3]**General requirements.**

Source test submittals shall be as follows:

- (1) At least 90 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval in accordance with paragraph (7) of this condition. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (2) At least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Department in accordance with paragraph (7)(B) of this condition. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department (Source Testing Section).
- (3) A complete test report shall be submitted to the Department no later than 60 calendar days after completion of the onsite testing portion of an emission test program.
- (4) A complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:
 - (A) A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
 - (B) Permit number(s) and condition(s) which are the basis for the evaluation.
 - (C) Summary of results with respect to each applicable permit condition.
 - (D) Statement of compliance or non-compliance with each applicable permit condition.
- (5) All submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (6) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.
- (7)
 - (A) All submittals, besides notifications, shall be accomplished through PSIMS*Online, available through

**SECTION C. Site Level Requirements**

<https://www.dep.greenport.state.pa.us/ecommm/Login.jsp>, when it becomes available.

(B) If internet submittal cannot be accomplished, one electronic copy of all source test submissions (notifications, protocols, reports, supplemental information, etc.) shall be sent to both PSIMS Administration in Central Office and to Regional Office AQ Program Manager.

Electronic copies shall be sent at the following e-mail addresses:

CENTRAL OFFICE:

RA-EPstacktesting@pa.gov

SOUTHWEST REGIONAL OFFICE:

RA-EPSWstacktesting@pa.gov

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

Visible emissions may be measured using either of the following:

(1) A device approved by the Department and maintained to provide accurate opacity measurements.

(2) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

013 [25 Pa. Code §123.51]**Monitoring requirements**

(a) This section applies to combustion units with a rated heat input of 250 million Btus per hour or greater and with an annual average capacity factor of greater than 30%.

(b) Sources subject to this section shall install, operate and maintain continuous nitrogen oxides monitoring systems and other monitoring systems to convert data to required reporting units in compliance with Chapter 139, Subchapter C (relating to requirements for continuous in-stack monitoring for statutory sources).

(c) Sources subject to this section shall submit results on a regular schedule and in a format acceptable to the Department and in compliance with Chapter 139, Subchapter C.

(d) Continuous nitrogen oxides monitoring systems installed under the requirements of this section shall meet the minimum data availability requirements in Chapter 139, Subchapter C.

(e) The Department may exempt a source from the requirements of subsection (b) if the Department determines that the installation of a continuous emission monitoring system would not provide accurate determination of emissions or that installation of a continuous emission monitoring system cannot be implemented by a source due to physical plant limitations or to extreme economic reasons. A source exempted from the requirements of subsection (b) shall satisfy alternative emission monitoring and reporting requirements proposed by the source and approved by the Department which provide oxides emission data that is representative of actual emissions of the source.

(f) Sources subject to this section shall comply by October 20, 1993, unless the source becomes subject to the requirements later than October 20, 1990. For sources which become subject to the requirements after October 20, 1990, the source has 36 months from the date the source becomes subject to this section. The Department may issue orders providing a reasonable extension of time for sources that have made good faith efforts to install, operate and maintain continuous monitoring devices, but that have been unable to complete the operations within the time period provided.

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

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



SECTION C. Site Level Requirements

(a) The permittee shall conduct a daily inspection during daylight hours of sources covered by this permit that are operating at the facility to determine:

- (1) the presence of visible emissions.
- (2) the presence of visible fugitive emissions.
- (3) the presence of malodors beyond the boundaries of the facility.

(b) All detected visible emissions, visible fugitive emissions or malodors that exceed applicable limits shall be reported to the management of the facility.

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

Compliance with the emission limits herein shall be demonstrated through engineering calculations based on fuel usage, hours of operation, fuel analysis, CEM data, stack testing, manufacturer's guarantee, AP-42 and other emission factors that are acceptable to the Department.

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

I. Monitoring Requirements

A. Continuous Emission Monitoring Requirements

The following continuous emission monitoring systems (CEMSs) must be installed, approved by the Department, operated and maintained in accordance with the requirements of 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), and the "Submittal and Approval", "Record Keeping and Reporting", and "Quality Assurance" requirements of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

- 1. CEMS #1 which monitors NOx emissions and either O2, or CO2, from Source ID 101 – CGT Train 1 Combined Cycle Turbine.
- 2. CEMS #2 which monitors NOx emissions and either O2, or CO2, from Source ID 102 – CGT Train 2 Combined Cycle Turbine.

Both CEMSs will record monitoring data under the following criteria:

During steady state operation of the monitored CGT system the following parameters shall be used:

Pollutant	Units	Moist.	% O2	Sub	Violation	Standard	Averaging Period	Variable
NOx	ppm as NO2	0%	15%	No	>	2.5 ppm	3-hour average, rolling by 1 hour	NO
NOx	lbs/hr as NO2	0%	15%	No	>	21.6 lbs/hour	3-hour average, rolling by 1 hour	NO

(NOx concentrations are reported but not recorded on a 15% O2 basis.)

Emissions shall be monitored during any operation of the monitored CGT systems. Annual emissions of the sum of both CGT1 & CGT 2 shall be determined.

Pollutant	Units	Moist.	% O2	Sub	Violation	Standard	Averaging Period	Variable
NOx	lbs/hr	NA	NA	Yes	>	289 tons/year	12-month, sum, rolling by 1 month	NO

The standard data substitution procedure of the Department shall be utilized in compilation of this report sent to the Pa. DEP, RCSOB, Bureau of Air Quality, Division of Source Testing and Monitoring. The data substitution procedure is described in Revision No.8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

Additionally, a separate report called the CGT Startup/Shutdown Emission Monitoring Report shall be compiled and

**SECTION C. Site Level Requirements**

submitted to the Pa. DEP, SWRO, Air Quality Program on a quarterly basis. This report shall list emissions describing each startup and shutdown of each CGT.

Startup/Shutdown Emission Monitoring Reports of CGT1 and CGT2 shall use these parameters:

Pollutant	Units	Moist.	% O2	Sub	Violation	Standard	Averaging Period	Variable

During Cold Startup								
NOx	lbs/hr as NO2	NA	NA	No	>	400 lbs/hour	Average over each startup	NO
During Warm Startup								
NOx	lbs/hr as NO2	NA	NA	No	>	161 lbs/hour	Average over each startup	NO
During Hot Startup								
NOx	lbs/hr as NO2	NA	NA	No	>	190 lbs/hour	Average over each startup	NO
During Shutdown								
NOx	lbs/hr as NO2	NA	NA	No	>	100 lbs/hour	Average over each shutdown	NO

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

II. Work Practice Standards

1. Both CEMS #1 & CEMS #2

a. Data Availability Standard # 1

i. Continuous emission monitoring shall meet the following minimum data availability requirements.

(1.) In accordance with 25 Pa. Code Section 139.101(12), required monitoring shall, at a minimum, meet one of the following data availability requirements unless otherwise stipulated in this permit, a plan approval, Title 25 or an order issued under Section 4 of the Air Pollution Control Act:

(i.) In each calendar month, at least 90% of the time periods for which an emission standard applies, shall be valid as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

or,

(ii.) In each calendar quarter, at least 95% of the hours shall be valid as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

ii. Emission Standard(s) To Which Data Availability Standard applies:

NOx (ppm), NOx (lbs/hr)

III. Certification and Testing Requirements

A. Application for Modification of Monitoring Plan:

A Proposal containing information as to modify the Existing Facility Monitoring Plan must be submitted no later than 90 days following the Issue Date of this Operating Permit.

IV. Recordkeeping Requirements:

**SECTION C. Site Level Requirements**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 139.101(5) and 139.101(12)]

The permittee shall comply with the recordkeeping 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 in Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

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

V. Reporting Requirements:

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 139.101(1)(iv), 139.101(10) and 139.101(12)]

The permittee shall submit quarterly reports of continuous emission monitoring 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 Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001. The permittee shall report emissions for all periods of unit operation, including startup, shutdown and malfunction.

The permittee shall separately submit the CGT Startup/Shutdown Emission Monitoring Report as a separate report to the Department's Southwest Regional Office, Air Quality Program. This report shall list the time, duration, and emissions of NO_x, as NO₂, in both total pounds and average pounds per hour, and listing type of event during each Cold, Warm, and Hot Startup and Shutdown.

Initial quarterly reports following system certification shall be submitted to the Department within 35 days following the date upon which the Department notifies the owner or operator, in writing, of the approval of the continuous source monitoring system for use in determining compliance with applicable emission standards.

Subsequent 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 in writing.

VI. Quality Assurance Requirements

[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)]

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 Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

VII. General Requirements (Section B requirements)

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

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

B. Unless otherwise required by this permit, the permittee shall comply with applicable monitoring, quality assurance, recordkeeping and reporting requirements of the Air Pollution Control Act, 25 Pa. Code Article III, (relating to air resources), including Chapter 139 (relating to sampling and testing). The permittee shall also comply with applicable requirements related to monitoring, quality assurance, reporting and recordkeeping required by the Clean Air Act and regulations thereunder including applicable monitoring requirements of 40 CFR Parts 60, 75, and 76, unless otherwise required by this

**SECTION C. Site Level Requirements**

permit.

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

017 [25 Pa. Code §135.4]**Report format**

In accordance with the Department's "Continuous Source Monitoring Manual," the owner or operator shall submit to the Department calendar quarterly reports of Continuous Emission Monitoring Systems (CEMs) containing the following:

- 1) Information on the source and emissions in accordance with the appropriate reporting format approved by the Department.
- 2) The results of all performance test, audits and recalibrations conducted during the quarter. The report signed by the responsible official shall be submitted in duplicate to the Division of Source Testing and Monitoring, Continuous Monitoring Section at the following address, within thirty (30) days following the end of each quarter:

Department of Environmental Protection
Division of Source Testing and Monitoring, Continuous Testing Section
Rachael Carson State Office Building
P.O. Box 8468
Harrisburg, PA 17105-8468,

or through the PA DEP Greenport (<https://www.depgreenport.state.pa.us>) website, if available.

- 3) Subsequent data report changes must be submitted in duplicate to the Air Program Manager, Southwestern Regional Office. Data resubmittals must be submitted to the Regional Office within sixty (60) days following the end of the quarter.

018 [25 Pa. Code §139.101]**General requirements.**

In accordance with the Department's "Continuous Source Monitoring Manual" the owner or operator shall observe the following requirements when performing any maintenance/calibration on the CEM system(s):

(A) MAINTENANCE:

1. Zero and upscale calibration error checks should be conducted immediately prior to maintenance, if possible.
2. Zero and upscale calibration error checks must be conducted immediately following any maintenance.
3. If the post maintenance zero or calibration error checks show calibration error in excess of twice the applicable performance specification, recalibration must be conducted in accordance with quarterly linearity check procedures in Paragraph I.D.2. of the Quality Assurance section of the Department's "Continuous Source Monitoring Manual."

(B) PERIODIC CALIBRATION:

1. Calibration must be conducted at least daily for determination of measurement device zero and upscale calibration error on all measurement device ranges.
2. The monitoring system must be adjusted whenever the zero or upscale calibration error performance specification are exceeded.
3. The zero calibration error check must be conducted at a measurement level at or between 0% and 30% of measurement device range. The value selected must be lower than the lowest value that would be expected to occur under normal source operating conditions.
4. The upscale calibration error check must be conducted at a measurement level at or between 40% and 100% of

**SECTION C. Site Level Requirements**

measurement device ranges unless an alternative level can be demonstrated to better represent normal source operating levels.

019 [25 Pa. Code §139.101]**General requirements.**

- (a) At least once in every four calendar quarters in which the source operates for 168 hours or more, or within 720 source operating hours after the close of such four quarters, the permittee shall conduct a System Performance Audit in accordance with the relative accuracy test audit procedures listed in the Department's Continuous Source Monitoring Manual.
- (b) When eight consecutive calendar quarters elapse after the last System Performance Audit, a System Performance Audit must be conducted within 720 source-operating hours.
- (c) Notification of System Performance Audit testing must be provided to the Department's Source Testing and Monitoring, Continuous Emission Monitoring Section at least 21 days prior to testing.
- (d) Departmental approval must be obtained prior to the testing.
- (e) A periodic self-audit conducted for purposes of meeting the requirements of the Department's Continuous Source Monitoring Manual may not be conducted within 6 months of the previous successful periodic self-audit on the same existing, previously approved monitoring system to which no changes have been made.

020 [25 Pa. Code §139.101]**General requirements.**

In accordance with the Department's "Continuous Source Monitoring Manual", the permittee shall maintain the Continuous Emission Records as follows:

- 1) All data shall be reduced to one-hour averages on a clock basis. The reduction methods must be in accordance with the data validation and reduction criteria of the Department's Quality Assurance requirements.
- 2) A chronological file shall be maintained by the permittee that includes:
 - a. All measurements from the monitoring system on at least the minimum data recording frequency (chart recordings of the proper resolution are acceptable).
 - b. All valid averages as specified above.
 - c. The cause, time periods, and magnitudes of all emissions that exceed the applicable emission standard(s).
 - d. Data and results for all tests, audits, and recalibrations.
 - e. A record of any repairs, adjustments, or maintenance to the monitoring system.
 - f. The data necessary for conversion of the monitoring system data to units consistent with the applicable emission standard or operation criterion, including the values for any manually adjustable "k-factors" or other constants.
 - g. The cause and time periods for any invalid data averages.
 - h. The process and pollution control equipment operating data for all parameters which have a significant effect on the levels of the emissions or operational criterion being monitored.
 - i. Copies of the Phase I application, Phase II testing protocol, Phase III performance specification testing report and all correspondence related thereto.
 - j. Records of all corrective actions taken in response to exceedances of emission standards, operational criteria or data

**SECTION C. Site Level Requirements**

availability standards.

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

The owner/operator shall keep monthly records of operational hours and fuel usage for each source at this facility.

These records shall be used, as applicable, to calculate emissions rates for the sources at this facility and shall be used to determine compliance with any hourly, monthly, or annual emission limitations on a consecutive 12-month rolling total basis.

The records and calculations shall be kept on site for a period of 5 years and be made available to the Department upon request.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.]

(a) The permittee shall keep records of the daily facility inspections. Records shall include the name of the person conducting the inspections, the date and time of the inspection, and the results of each inspection. If instances of detected visible emissions, visible fugitive emissions or malodors are observed that exceed applicable limits, records shall be kept of the corrective action taken to abate same and/or to prevent future occurrences.

(b) These records shall be maintained in a logbook or equivalent recordkeeping approach, shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

023 [25 Pa. Code §135.5]**Recordkeeping**

Source owners or operators shall maintain and make available upon request by the Department records including computerized records that may be necessary to comply with 135.21 (relating to reporting; and emission statements). These 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.

V. REPORTING REQUIREMENTS.**# 024 [25 Pa. Code §127.442]****Reporting requirements.**

Malfunction reporting shall be conducted as follows:

(a) For the purpose of this condition, a malfunction is defined as any sudden, infrequent, and not reasonably preventable failure of a source to operate in a normal or usual manner that results in, or potentially results in, air contaminant emissions in excess of an applicable emission limitation, or which may be reasonably expected to create off-site impacts, such as large dust plumes, heavy smoke, or a spill or release that results in a malodor that is detectable outside the property on whose land the source is being operated. Any failure of an air cleaning device that is required under this permit shall be reported as a malfunction.

(b) Any malfunction that poses an imminent danger to the public health, safety, or welfare to the environment shall be reported by telephone to the County Emergency Management Agency (911 Center), and to the 24-hour Emergency Hotline of the appropriate Department Regional Office (412-442-4000) no later than one hour after the discovery of an incident. Following the telephone notification, a written notice shall be submitted to the Department no later than the next business day.

(c) All other malfunctions shall be reported to the Department no later than the next business day.

**SECTION C. Site Level Requirements**

(d) Initial reporting of the malfunction shall identify the following items to the extent known:

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

(e) The Owner or Operator shall also notify the Department immediately, by telephone, when corrective measures for malfunctions meeting the criteria in (b) have been accomplished.

(f) All malfunctions shall be reported to the Department by email (addresses will be provided by the Department), or by regular mail at the address below:

PADEP
Office of Air Quality
400 Waterfront Drive
Pittsburgh, PA 15222-4745
(412) 442-4000

(g) If requested by the Department, the Owner/Operator shall submit a full written report to the Department, including final determinations of the items identified in (d), and the corrective measures taken on the malfunction. The report shall be submitted within 15 days of the Department's request or accomplishing corrective measures, whichever is later.

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

Owner/operator shall submit the semi-annual monitoring reports for this facility by January 31 and July 31 of each year. The January 31 semi-annual monitoring report shall cover the period from July 1 through December 31. This semi-annual monitoring report may be included in January 31 Title V Compliance Certification required by Title 25 PA Code § 127.513. The July 31 semi-annual monitoring report shall cover the period from January 1 through June 30. However, in accordance with Title 25 PA Code § 127.511(c), in no case shall the semi-annual monitoring report be submitted less often than every six (6) months. This may require that an interim semi-annual monitoring report (covering a period less than six (6) months) be submitted to bring the facility into compliance with this schedule.

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

With respect to reporting, the permit shall incorporate the applicable reporting requirements and require the following:

(1) Submittal of reports of required monitoring at least every 6 months. Instances of deviations from permit requirements shall be clearly identified in the reports. Required reports shall be certified by a responsible official.

(2) Reporting of deviations from permit requirements within the time required by the terms and conditions of the permit including those attributable to upset conditions as defined in the permit, the probable cause of the deviations and corrective actions or preventive 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.

027 [25 Pa. Code §127.513]**Compliance certification.**

Owner/operator shall submit a Title V Compliance Certification for this facility by January 31 of each year. The Title V Compliance Certification shall cover the previous calendar year, for the period January 1 through December 31. This Certification shall be submitted to both the Director, Air, Toxics, and Radiation of EPA, Region III and the Regional Air Quality Program Manager, PADEP. However, in accordance with Title 25 PA Code § 127.513(5)(i), in no case shall the Title V Compliance Certification be submitted less often than annually. This may require that an interim Title V Compliance Certification (covering a period less than one year) be submitted to bring the facility into compliance with this schedule.

**SECTION C. Site Level Requirements****# 028 [25 Pa. Code §135.21]****Emission statements**

The owner or operator shall provide the Department with a statement, in a form as the Department may prescribe, for classes or categories of sources, showing the actual emissions of oxides of nitrogen and VOCs from that source for each reporting period, a description of the method used to calculate the emissions and the time period over which the calculation is based. The statement shall contain a certification by a company officer, plant responsible official, designated representative, or the plant manager that the information contained in the statement is accurate.

Annual emission statements are due by March 1 for the previous year and shall provide data consistent with requirements and guidance developed by the EPA.

029 [25 Pa. Code §135.3]**Reporting**

(a) The Owner/Operator shall submit by March 1 of each year a source report for the preceding calendar year. The report shall include information for all previously reported sources, new sources which were first operated during the preceding calendar year and sources modified during the same period which were not previously reported.

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

030 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]**Subpart A - General Provisions****Address.**

This facility is subject to 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60, Subpart KKKK-Standards of Performance for Stationary Combustion Turbines, 40 CFR 63 Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for HAPs for Stationary Reciprocating Internal Combustion Engines (RICE) and 40 CFR 63, Subpart JJJJJ - Industrial, Commercial, and Institutional Boilers Area Sources, and shall comply with all applicable requirements of Subpart. 40 CFR § 60.4 and 40 CFR § 63.13, which require submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department at the following addresses:

Director, Air, Toxics, and Radiation
Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103

PA Department of Environmental Protection
Regional Air Quality Manager
Office of Air Quality
400 Waterfront Drive
Pittsburgh, PA 15222-4745

VI. WORK PRACTICE REQUIREMENTS.**# 031 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The equipment at this combustion gas turbine generating station shall be equipped with silencers and/or mufflers. The turbines, generators, and gas compressors at this gas turbine generating station shall be enclosed in structures designed to minimize sound levels.

[Clarification note on "equipment": Each Heat Recovery Steam Generator (HRSG) for CT1 and CT2 has nine (9) silencers and there is one (1) silencer on the Atmospheric Drain Tank which serves both HRSGs. Sources 104 and 105 each have a muffler]

**SECTION C. Site Level Requirements****# 032 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The Owner/Operator shall maintain and operate all the sources at this facility in accordance with manufacturer specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.**# 033 [25 Pa. Code §123.42]****Exceptions**

The limitations of § 123.41 (relating to limitations) [and other limitations of opacity in this Operating Permit] shall not apply to a visible emission in any of the following instances:

- (1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (3) When the emission results from sources specified in § 123.1 (a)(1)-(9) (relating to prohibition of certain fugitive emissions).
- (4) N/A.

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

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

The permittee shall comply with all applicable requirements and procedures established in regulations promulgated under Title IV of the Clean Air Act, including all applicable provisions from the following:

- 40 CFR Part 72 Acid Rain Permit Program
- 40 CFR Part 75 Continuous Emission Monitoring
- 40 CFR Part 76 Nitrogen Oxides Emission Reduction Program

035 [25 Pa. Code §139.102]**References.**

The following are references of this subchapter (Chapter 139-Sampling and Testing, Subchapter C-Requirements for Source Monitoring for Stationary Sources):

- (1) "Standards of Performance for New Stationary Sources," 40 CFR Chapter I, Subchapter C, Part 60, Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402-9328.
- (2) "Minimum Emission Monitoring Requirements," 40 CFR Subchapter C, Part 51, Appendix P, Superintendent of Documents, U. S. Government Printing Office, Washington, D.C. 20402-9328.
- (3) "Continuous Source Monitoring Manual," Commonwealth of Pennsylvania, Department of Environmental Resources, Bureau of Air Quality Control, Post Office Box 8468, Harrisburg, Pennsylvania 17105-8468.

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: 031

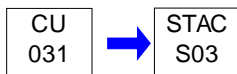
Source Name: AUXILIARY BOILER

Source Capacity/Throughput: 30.600 MMBTU/HR

20.000 Gal/HR

N/A

Natural Gas

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

Total emissions from the Auxiliary Boiler (Source ID 031) shall not exceed 4.7 tons of NO_x, expressed as NO₂, 14.6 tons of CO, 2.1 tons of VOC, expressed as methane, 0.13 tons of oxides of sulfur, expressed as SO₂, or 1.3 tons of PM₁₀, during any consecutive 12-month period.

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

Emissions from the Auxiliary Boiler (Source ID 031) shall not exceed 1.1 pounds of NO_x, expressed as NO₂, 3.3 pounds of CO, 0.49 pounds of VOC, expressed as methane, 0.03 pounds of oxides of sulfur, expressed as SO₂, or 0.31 pounds of PM₁₀, during any hour.

003 [25 Pa. Code §129.112]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

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

- (1) A NO_x air contamination source that has the potential to emit less than 5 TPY of NO_x.
- (2) A VOC air contamination source that has the potential to emit less than 2.7 TPY of VOC.
- (3)-(9) Not applicable

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.**

Compliance with limitations may be demonstrated through engineering calculations using fuel usage records, operational records, manufacturer's data sheets, EPA AP-42 emission factors, and/or other factors approved by the Department.

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.****# 005 [25 Pa. Code §129.112]****Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

(b) The owner and operator of a source listed in this subsection that is located at a major NOx emitting facility or major VOC emitting facility subject to § 129.111 shall comply with the applicable presumptive RACT requirements in paragraph (1) and recordkeeping and reporting requirements in paragraph (2).

(1) The owner or operator of a:

(i) Combustion unit or process heater with a rated heat input equal to or greater than 20 million Btu/hour and less than 50 million Btu/hour shall conduct a biennial tune-up in accordance with the procedures in 40 CFR 63.11223 (relating to how do I demonstrate continuous compliance with the work practice and management practice standards?).

(A) Each biennial tune-up shall occur not less than 3 months and not more than 24 months after the date of the previous tune-up.

(B) The biennial tune-up must include, at a minimum, the following:

(I) Inspection and cleaning or replacement of fuel-burning equipment, including the burners and components, as necessary, for proper operation as specified by the manufacturer.

(II) 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.

(III) Inspection and adjustment, as necessary, of the air-to-fuel ratio control system to ensure proper calibration and operation as specified by the manufacturer.

(ii) Combustion unit or process heater with an oxygen trim system that maintains an optimum air-to-fuel ratio that would otherwise be subject to a biennial tune-up shall conduct a tune-up of the boiler one time in each 5-year calendar period in accordance with the following:

(A) Each tune-up shall occur not less than 3 months and not more than 60 months after the date of the previous tune-up.

(B) The tune-up must include, at a minimum, the following:

(I) Inspection and cleaning or replacement of fuel-burning equipment, including the burners and components, as necessary, for proper operation as specified by the manufacturer.

(II) 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.

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

The Auxiliary boiler, for the purposes of 40 CFR Part 60, Subpart Dc, is a new, natural gas-fired steam generating unit with a maximum heat input greater than 30 MMBtu per hour and less than 100 MMBtu per hour.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.41c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Definitions.**

As used in this subpart, all terms not defined herein shall have the meaning given them in the Clean Air Act and in subpart A of this part.

(All definitions contained in §60.41c incorporated into this Operating Permit by reference.)

**SECTION D. Source Level 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.**

In accordance with 40 CFR 60.48c(g)(2):

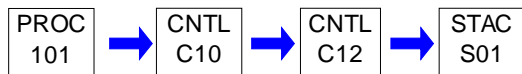
The owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

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

**SECTION D. Source Level Requirements**

Source ID: 101

Source Name: CGT TRAIN 1 COMBINED CYCLE TURBINE

Source Capacity/Throughput: 2,510.000 MMBTU/HR
2.500 MMCF/HRConditions for this source occur in the following groups: G01
G03
G04**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Emission rates from Combustion Gas Turbine System CGT1 (Source ID 101) shall be no greater than 400 pounds NO_x, expressed as NO₂, per hour, 1,700 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Cold Start.

Emission rates from CGT1 shall be no greater than 161 pounds NO_x, expressed as NO₂, per hour, 1,200 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Warm Start.

Emission rates from CGT1 shall be no greater than 190 pounds NO_x, expressed as NO₂, per hour, 1,200 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Hot Start.

Emission rates from CGT1 shall be no greater than 100 pounds NO_x, expressed as NO₂, per hour, 700 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Shutdown.

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

Emission rates from Combustion Gas Turbine System CGT1 (Source ID 101), with the operation of duct burners, SCR and OC, shall not exceed the following, based on a three-hour block average, updated hourly:

NO_x - 2.5 ppmvd @15% O₂ and 21.6 pounds per hour, expressed as NO₂

CO - 3.0 ppmvd @15% O₂ and 15.7 pounds per hour

SO_x - 1.2 ppmvd @15% O₂ and 14.5 pounds per hour, expressed as SO₂

VOC - 3.3 ppmvd @15% O₂ and 10.0 pounds per hour, expressed as methane

PM₁₀ - 34.8 pounds per hour

NH₃ - 5.9 ppmvd @15% O₂ and 18.9 pounds per hour

Formaldehyde - 1.1 pounds per hour

The hourly emission limits established in this Condition do not apply during periods of Startup, Shutdown, Runback, routine maintenance, turbine tuning and malfunction events.

Startup shall be defined as the period between when the combustion turbine is initially started until:

(a) the period of operation in which all emission control systems are operating within the design specification and the turbine control system enters Mode 6Q operation; or

(b) initiation of a Shutdown. For purposes of this condition, a Startup shall be considered either a Cold Start (turbine previously down for more than 72 hours, startup duration not exceeding 4.2 hours), a Warm Start (turbine previously down between 8 and 72 hours, startup duration not exceeding 3.0 hours), or a Hot Start. (turbine previously down less than 8 hours, startup duration not exceeding 1.5 hour)

Shutdown is defined as the period beginning when the combustion turbine shutdown sequence is initiated or the unit is no

**SECTION D. Source Level Requirements**

longer in Mode 6Q operation, and ends when either all combustion has ceased or the shutdown is aborted. Unit trips, unload events, and an aborted Startup during a control system or equipment malfunction shall be considered a Shutdown.

Runback is defined as a reduction of electrical output and fuel consumption by the combustion turbine control system whereby the unit is no longer in Mode 6Q operation. A Runback begins when the unit is no longer in Mode 6Q operation and ends when the Mode 6Q operation is restored or a Shutdown is initiated. A Runback shall not exceed 1.5 hours. For the purposes of identifying Runback in the CEMs data records, the process code for a Shutdown shall be used for the duration of the Runback.

Turbine tuning is testing to modify operational parameter values to minimize emissions and combustion hardware stress levels during operation. Tuning is performed periodically and when combustion hardware components are changed. Turbine tuning includes, but is not limited to, planned events such as periodic adjustments, overspeed trip testing, and generator certification testing.

[This condition was derived from Plan Approval 26-00535B D.I.001 for Source ID 101 replaces the requirements of Source ID: 101 Condition D.I.002 in the TV-26-00535 issued January 30, 2013. Startup language was clarified for this renewal.]

003 [25 Pa. Code §129.112]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

(g) Except as specified in subsection (c), the owner and operator of a NO_x air contamination source listed in this subsection that is located at a major NO_x emitting facility or a VOC air contamination source listed in this subsection that is located at a major VOC emitting facility subject to § 129.111 may not cause, allow or permit NO_x or VOCs to be emitted from the air contamination source in excess of the applicable presumptive RACT emission limitation specified in the following paragraphs:

(1) Not applicable

(2) The owner or operator of a:

(i)-(ii) Not applicable

(iii) Combined cycle or combined heat and power combustion turbine with a rated output equal to or greater than 180 MW shall comply with the following presumptive RACT emission limitations as applicable:

(A) 4 ppmvd NO_x @ 15% oxygen when firing natural gas or a noncommercial gaseous fuel.

(B) 2 ppmvd VOC (as propane) @ 15% oxygen when firing natural gas or a noncommercial gaseous fuel.

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).

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

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

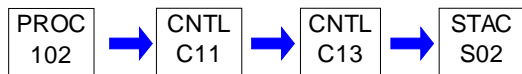
No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

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

**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: CGT TRAIN 2 COMBINED CYCLE TURBINE

Source Capacity/Throughput: 2,510.000 MMBTU/HR
2.500 MMCF/HRConditions for this source occur in the following groups: G01
G03
G04**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Emission rates from Combustion Gas Turbine System CGT2 (Source ID 102) shall be no greater than 400 pounds NO_x, expressed as NO₂, per hour, 1,700 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Cold Start.

Emission rates from CGT2 shall be no greater than 161 pounds NO_x, expressed as NO₂, per hour, 1,200 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Warm Start.

Emission rates from CGT2 shall be no greater than 190 pounds NO_x, expressed as NO₂, per hour, 1,200 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Hot Start.

Emission rates from CGT2 shall be no greater than 100 pounds NO_x, expressed as NO₂, per hour, 700 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Shutdown.

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

Emission rates from Combustion Gas Turbine System CGT2 (Source ID 102), with the operation of duct burners, SCR and OC, shall not exceed the following, based on a three-hour block average, updated hourly:

NO_x - 2.5 ppmvd @15% O₂ and 21.6 pounds per hour, expressed as NO₂
 CO - 3.0 ppmvd @15% O₂ and 15.7 pounds per hour
 SO_x - 1.2 ppmvd @15% O₂ and 14.5 pounds per hour, expressed as SO₂
 VOC - 3.3 ppmvd @15% O₂ and 10.0 pounds per hour, expressed as methane
 PM₁₀ - 34.8 pounds per hour
 NH₃ - 5.9 ppmvd @15% O₂ and 18.9 pounds per hour
 Formaldehyde - 1.1 pounds per hour

The hourly emission limits established in this Condition do not apply during periods of Startup, Shutdown, Runback, routine maintenance, turbine tuning and malfunction events.

Startup shall be defined as the period between when the combustion turbine is initially started until:

(a) the period of operation in which all emission control systems are operating within the design specification and the turbine control system enters Mode 6Q operation; or

(b) initiation of a Shutdown. For purposes of this condition, a Startup shall be considered either a Cold Start (turbine previously down for more than 72 hours, startup duration not exceeding 4.2 hours), a Warm Start (turbine previously down between 8 and 72 hours, startup duration not exceeding 3.0 hours), or a Hot Start. (turbine previously down less than 8 hours, startup duration not exceeding 1.5 hour)

Shutdown is defined as the period beginning when the combustion turbine shutdown sequence is initiated or the unit is no

**SECTION D. Source Level Requirements**

longer in Mode 6Q operation, and ends when either all combustion has ceased or the shutdown is aborted. Unit trips, unload events, and an aborted Startup during a control system or equipment malfunction shall be considered a Shutdown.

Runback is defined as a reduction of electrical output and fuel consumption by the combustion turbine control system whereby the unit is no longer in Mode 6Q operation. A Runback begins when the unit is no longer in Mode 6Q operation and ends when the Mode 6Q operation is restored or a Shutdown is initiated. A Runback shall not exceed 1.5 hours. For the purposes of identifying Runback in the CEMs data records, the process code for a Shutdown shall be used for the duration of the Runback.

Turbine tuning is testing to modify operational parameter values to minimize emissions and combustion hardware stress levels during operation. Tuning is performed periodically and when combustion hardware components are changed. Turbine tuning includes, but is not limited to, planned events such as periodic adjustments, overspeed trip testing, and generator certification testing.

[This condition was derived from Plan Approval 26-00535B D.I.001 condition for Source ID 102 replaces the requirements of Source ID: 102 Condition D.I.002 in the TV-26-00535 issued January 30, 2013. Startup language was clarified for this renewal]

003 [25 Pa. Code §129.112]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

(g) Except as specified in subsection (c), the owner and operator of a NO_x air contamination source listed in this subsection that is located at a major NO_x emitting facility or a VOC air contamination source listed in this subsection that is located at a major VOC emitting facility subject to § 129.111 may not cause, allow or permit NO_x or VOCs to be emitted from the air contamination source in excess of the applicable presumptive RACT emission limitation specified in the following paragraphs:

(1) Not applicable

(2) The owner or operator of a:

(i)-(ii) Not applicable

(iii) Combined cycle or combined heat and power combustion turbine with a rated output equal to or greater than 180 MW shall comply with the following presumptive RACT emission limitations as applicable:

(A) 4 ppmvd NO_x @ 15% oxygen when firing natural gas or a noncommercial gaseous fuel.

(B) 2 ppmvd VOC (as propane) @ 15% oxygen when firing natural gas or a noncommercial gaseous fuel.

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).

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

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

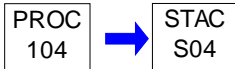
Source ID: 104

Source Name: DIESEL EMERGENCY FIREWATER PUMP ENGINE(265 BHP)

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: G02

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

Total emissions from the Fire Pump Engine (Source ID 104) shall not exceed 1.55 tons of NO_x, expressed as NO₂, 0.33 tons of CO, 0.13 tons of VOC, expressed as methane, 0.10 tons of oxides of sulfur, expressed as SO₂, or 0.11 tons of PM₁₀, during any consecutive 12-month period.

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

Total emissions from the Fire Pump Engine (Source ID 104) shall not exceed 6.20 pounds of NO_x, expressed as NO₂, 1.32 pounds of CO, 0.52 pounds of VOC, expressed as methane, 0.40 pounds of oxides of sulfur, expressed as SO₂, or 0.44 pounds of PM₁₀, during any hour.

003 [25 Pa. Code §129.112]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule****# 004 [25 Pa. Code §129.112]****Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

(a) The owner and operator of a source listed in one or more of subsections (b)—(k) located at a major NO_x emitting facility or major VOC emitting facility subject to § 129.111 (relating to applicability) shall comply with the applicable presumptive RACT requirement or RACT emission limitation, or both, beginning with the specified compliance date as follows, unless an alternative compliance schedule is submitted and approved under subsections (n)—(p) or § 129.114 (relating to alternative RACT proposal and petition for alternative compliance schedule):

(b) Not applicable

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

(1)-(9) Not applicable

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

(11) Not applicable

Operation Hours Restriction(s).**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The Fire Engine Pump (Source ID 104) shall not operate more than a total of 500 hours in any consecutive 12-month period.



SECTION D. Source Level 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) 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.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Compliance with limitations may be demonstrated through engineering calculations using fuel usage records, operational records, manufacturer's data sheets, EPA AP-42 emission factors, and/or other factors approved by the Department.

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**

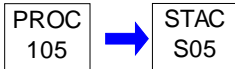
Source ID: 105

Source Name: DIESEL EMERGENCY GENERATOR ENGINE (489 BHP)

Source Capacity/Throughput: 3.420 MMBTU/HR

N/A

Conditions for this source occur in the following groups: G02

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

Total emissions from the Diesel Generator Engine (Source ID 105) shall not exceed 3.1 tons of NO_x, expressed as NO₂, 3.8 tons of CO, 0.44 tons of VOC, expressed as methane, 1.0 tons of oxides of sulfur, expressed as SO₂, or 0.18 tons of PM₁₀, during any consecutive 12-month period.

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

Total emissions from the Diesel Generator Engine (Source ID 105) shall not exceed 12.40 pounds of NO_x, expressed as NO₂, 15.2 pounds of CO, 1.76 pounds of VOC, expressed as methane, 4.00 pounds of oxides of sulfur, expressed as SO₂, or 0.72 pounds of PM₁₀, during any hour.

003 [25 Pa. Code §129.112]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

(a) The owner and operator of a source listed in one or more of subsections (b)—(k) located at a major NO_x emitting facility or major VOC emitting facility subject to § 129.111 (relating to applicability) shall comply with the applicable presumptive RACT requirement or RACT emission limitation, or both, beginning with the specified compliance date as follows, unless an alternative compliance schedule is submitted and approved under subsections (n)—(p) or § 129.114 (relating to alternative RACT proposal and petition for alternative compliance schedule):

(b) Not applicable

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

(1)-(9) Not applicable

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

(11) Not applicable

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

The Diesel Generator Engine (Source ID 105) shall not operate more than a total of 500 hours in any consecutive 12-month period.

II. TESTING REQUIREMENTS.

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



SECTION D. Source Level Requirements

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Compliance with limitations may be demonstrated through engineering calculations using fuel usage records, operational records, manufacturer's data sheets, EPA AP-42 emission factors, and/or other factors approved by the Department.

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).

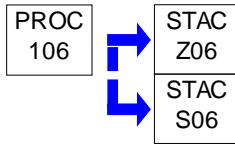
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 106

Source Name: CONDENSER COOLING TOWER

Source Capacity/Throughput:

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

Total emissions from the Condenser Cooling Tower (Source ID 106) shall not exceed 1.56 tons of PM10, during any consecutive 12-month period.

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

Total emissions from the Condenser Cooling Tower (Source ID 106) shall not exceed 0.36 pounds of PM10, during any hour.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

Compliance with limitations may be demonstrated through engineering calculations using operational records, manufacturer's data sheets, EPA AP-42 emission factors, and/or other factors approved by the Department.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: G01

Group Description: Combustion Gas Turbine Systems CGT1 & CGT2

Sources included in this group

ID	Name
101	CGT TRAIN 1 COMBINED CYCLE TURBINE
102	CGT TRAIN 2 COMBINED CYCLE TURBINE

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

Total emissions from the sum of Combustion Gas Turbine 1 (Source ID 101) and Combustion Gas Turbine 2 (Source ID 102) shall not exceed the following during any consecutive rolling 12-month period:

286.7 tons of NO_x, expressed as NO₂,
 562.3 tons of CO,
 87.3 tons of VOC, expressed as methane,
 126.7 tons of oxides of sulfur, expressed as SO₂,
 309.8 tons of PM₁₀,
 9.6 tons of formaldehyde, or
 166 tons of ammonia

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4320]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What emission limits must I meet for nitrogen oxides (NO_x)?**

What emission limits must I meet for nitrogen oxides (NO_x)?

a) You must meet the emission limits for NO_x specified in Table 1 to this subpart [15 ppm @ 15% O₂ or 54 ng/J of useful output (0.43 lb/MMWhr)]. [Compliance with the LAER NO_x limit of 2.5 ppmvd @ 15% O₂ incorporated into TV-26-00535 will show compliance with this requirement.]

b) N/A

[Plan Approval 26-00535B E.I.001]

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4330]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What emission limits must I meet for sulfur dioxide (SO₂)?**

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

a) If your turbine is located in a continental area, you must comply with either paragraph (a)(1), (a)(2), or (a)(3) of this section.

1) You must not cause to be discharged into the atmosphere from the subject stationary combustion turbine any gases which contain SO₂ in excess of 110 nanograms per Joule (ng/J) (0.90 pounds per megawatt-hour (lb/MMWh)) gross output; [Compliance with the BACT SO₂ limit of 1.2 ppmvd @ 15% O₂ incorporated into TV-26-00535 will show compliance with this requirement.]

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

3) N/A

b) N/A

[Plan Approval 26-00535B E.I.002]

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

Compliance with the turbine emission limitations for CO, VOC, PM10, PM2.5, NH3, and formaldehyde (HCOH) shall be demonstrated through performance stack testing on each turbine.

Performance testing shall also be conducted to demonstrate compliance with the turbine emission limitations for NOx and SO2. The continuous emission monitoring systems shall be used during performance testing for NOx. Fuel analysis for sulfur may be used to determine compliance with the turbine emission limitation of SO2.

A. All stack testing shall be performed in accordance with 40 CFR §§ 60.8 and 60.335, Title 25 Pa. Code Chapter 139 regulations, and the most recent version of the Department's current Source Testing Manual. Stack testing for PM10 shall be conducted by EPA Test Method 201A for the filterable portion and EPA Test Method 202 for condensable particulate matter or Agency approved equivalents.

Since almost all of the filterable particulate from the gas turbines is expected to have a diameter smaller than 2.5 micrometers (PM2.5), EPA Test Method 5 may be used in lieu of EPA Test Method 201A. Stack testing for carbon monoxide shall be conducted by EPA Test Method 10 or Agency approved equivalent. Stack testing for NOx shall be conducted by EPA Test Method 7E or Agency approved equivalent.

B. Owner/operator shall record all pertinent operating data during the stack test and include this data with the stack test results.

C. This testing shall be conducted within twelve months of the effective date of this permit. Testing conducted less than 24 months prior to the effective date of this permit, and meeting all other requirements of this condition, will also fulfill this requirement.

D. The permittee shall conduct this performance testing at least once every five years.

[PM2.5 added to the list as derived from Plan Approval 26-00535B E.II.004 initial testing list of pollutants]

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

Source test submittals shall be as follows:

(1) At least 90 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval in accordance with paragraph (7) of this condition. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(2) At least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Department in accordance with paragraph (7)(B) of this condition. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department (Source Testing Section).

(3) A complete test report shall be submitted to the Department no later than 60 calendar days after completion of the onsite testing portion of an emission test program.

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

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

(B) Permit number(s) and condition(s) which are the basis for the evaluation.

(C) Summary of results with respect to each applicable permit condition.

(D) Statement of compliance or non-compliance with each applicable permit condition.

(5) All submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

**SECTION E. Source Group Restrictions.**

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

(7)

(A) All submittals, besides notifications, shall be accomplished through PSIMS*Online, available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp>, when it becomes available.

(B) If internet submittal cannot be accomplished, one paper copy plus one electronic copy of all source test submissions (notifications, protocols, reports, supplemental information, etc.) shall be sent to both PSIMS Administration in Central Office and to Regional Office AQ Program Manager.

No paper copies shall be sent.

Electronic copies shall be sent at the following e-mail addresses:

CENTRAL OFFICE:

RA-EPstacktesting@pa.gov

SOUTHWEST REGIONAL OFFICE:

RA-EPSWstacktesting@pa.gov

[Plan Approval 26-00535B E.II.003 has been replaced with the most up to date Notification and Testing Submittal leadtimes]

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4400]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

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

How do I conduct the initial and subsequent performance tests, regarding NOx?

a) N/A

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

1) N/A

2) N/A

3) N/A

4) N/A

5) If you elect to install a CEMS, the performance evaluation of the CEMS may either be conducted separately or (as described in §60.4405) as part of the initial performance test of the affected unit.

6) N/A

[Derived from Plan Approval 26-00535B E.II.005. Initial performance testing is complete. References to performance testing are marked N/A because EPA/DEP certified CEMS are used for compliance demonstration]

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4405]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

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

If you elect to install and certify a NOX-diluent CEMS under §60.4345, then the initial performance test required under §60.8 may be performed in the following alternative manner:

(a) Perform a minimum of nine RATA reference method runs, with a minimum time per run of 21 minutes, at a single load level, within plus or minus 25 percent of 100 percent of peak load. The ambient temperature must be greater than 0 °F during the RATA runs.

**SECTION E. Source Group Restrictions.**

- (b) For each RATA run, concurrently measure the heat input to the unit using a fuel flow meter (or flow meters) and measure the electrical and thermal output from the unit.
- (c) Use the test data both to demonstrate compliance with the applicable NOX emission limit under §60.4320 and to provide the required reference method data for the RATA of the CEMS described under §60.4335.
- (d) Compliance with the applicable emission limit in §60.4320 is achieved if the arithmetic average of all of the NOX emission rates for the RATA runs, expressed in units of ppm or lb/MWh, does not exceed the emission limit.

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

- (a) The permittee shall verify compliance with the SO₂ limitations of this Operating Permit through one of the following:
- (1) Annual fuel sampling and analysis, or
 - (2) FERC tariff sheets or purchase contracts which show that the fuel is composed of at least 70 percent methane by volume or has a gross calorific value between 950 and 1100 Btu per standard cubic foot.
- (b) Data and information required to determine compliance with this section shall be maintained for five years.
- (c) Alternative methods for demonstration of compliance under subsection (a) must have prior written approval.

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

Owner/operator shall install, certify, maintain and operate continuous emission monitoring systems in accordance with 25 Pa. Code Chapter 139, the Department's Continuous Source Monitoring Manual, and 40 CFR Part 75 and applicable parts of 40 CFR 60. At a minimum the systems shall measure and record the following for each turbine:

Nitrogen Oxide emissions (as NO₂)
 % Oxygen or Carbon Dioxide
 Fuel Flow Monitor

[References to 40 CFR 60 Subparts Da and GG since they no longer apply]

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4340]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I demonstrate continuous compliance for NOX if I do not use water or steam injection?**

How do I demonstrate continuous compliance for NO_x if I do not use water or steam injection?

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

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

- 1) Continuous emission monitoring as described in §§60.4335(b) and 60.4345, or
- 2) N/A

[Plan Approval 26-00535B E.III.007]

011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4345]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines**

**SECTION E. Source Group Restrictions.****What are the requirements for the continuous emission monitoring system equipment, if I choose to use this option?**

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

- a) Each NOx diluent CEMS must be installed and certified according to Performance Specification 2 (PS 2) in appendix B to this part, except the 7-day calibration drift is based on unit operating days, not calendar days. With state approval, Procedure 1 in appendix F to this part is not required. Alternatively, a NOx diluent CEMS that is installed and certified according to appendix A of part 75 of this chapter is acceptable for use under this subpart. The relative accuracy test audit (RATA) of the CEMS shall be performed on a lb/MMBtu basis.
- b) As specified in §60.13(e)(2), during each full unit operating hour, both the NOx 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 NOx 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 part 75 of this chapter are acceptable for use under this subpart.
- 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 part 75 of this chapter.

[Plan Approval 26-00535B E.III.008]

012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4360]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I determine the total sulfur content of the turbine's combustion fuel?**

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

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

[Plan Approval 26-00535B E.III.009]

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4365]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How can I be exempted from monitoring the total sulfur content of the fuel?**

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

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

- a) The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the maximum total sulfur content for oil use in continental areas is 0.05 weight percent (500 ppmw) or less

**SECTION E. Source Group Restrictions.**

and 0.4 weight percent (4,000 ppmw) or less for noncontinental areas, the total sulfur content for natural gas use in continental areas is 20 grains of sulfur or less per 100 standard cubic feet and 140 grains of sulfur or less per 100 standard cubic feet for noncontinental areas, has potential sulfur emissions of less than less than 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for continental areas and has potential sulfur emissions of less than less than 180 ng SO₂/J (0.42 lb SO₂/MMBtu) heat input for noncontinental areas; or

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

[Plan Approval 26-00535B E.III.010]

014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4370]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

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

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

a) N/A

b) Gaseous fuel. If you elect not to demonstrate sulfur content using options in §60.4365, and the fuel is supplied without intermediate bulk storage, the sulfur content value of the gaseous fuel must be determined and recorded once per unit operating day.

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

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

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

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

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

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

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

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

**SECTION E. Source Group Restrictions.**

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

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

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

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

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

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

[Plan Approval 26-00535B E.III.011]

015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4380]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How are excess emissions and monitor downtime defined for NOX ?

How are excess emissions and monitor downtime defined for NOX?

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

a) N/A

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

1) An excess emissions is any unit operating period in which the 4-hour or 30-day rolling average NOx emission rate exceeds the applicable emission limit in §60.4320. For the purposes of this subpart, a "4-hour rolling average NOx emission rate" is the arithmetic average of the average NOx emission rate in ppm or ng/J (lb/MWh) measured by the continuous emission monitoring equipment for a given hour and the three unit operating hour average NOx emission rates immediately preceding that unit operating hour. Calculate the rolling average if a valid NOx emission rate is obtained for at least 3 of the 4 hours. For the purposes of this subpart, a "30-day rolling average NOx emission rate" is the arithmetic average of all hourly NOx 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 NOx emissions rates for the preceding 30 unit operating days if a valid NOx 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: NOx 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

**SECTION E. Source Group Restrictions.**

[Plan Approval 26-00535B E.III.012]

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

Owner/operator shall record the hours of operation of each of the turbines, type of operation, cold, warm, hot startup or normal operation, and the amount of fuel consumed, on a daily basis.

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

The Owner/Operator shall maintain the following comprehensive and accurate records related to any Runback:

- a) The date and time of initiation of the Runback.
- b) The cause of the Runback.
- c) The end time of the Runback or the time of the initiation of the Shutdown.

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

[Plan Approval 26-00535B E.IV.013]

018 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4350]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I use data from the continuous emission monitoring equipment to identify excess emissions?**

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

- a) All CEMS data must be reduced to hourly averages as specified in §60.13(h).
- b) For each unit operating hour in which a valid hourly average, as described in §60.4345(b), is obtained for both NO_x and diluent monitors, the data acquisition and handling system must calculate and record the hourly NO_x emission rate in units of ppm or lb/MMBtu, using the appropriate equation from method 19 in appendix A of this part. 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) Correction of measured NO_x concentrations to 15 percent O₂ is not allowed.
- d) If you have installed and certified a NO_x diluent CEMS to meet the requirements of part 75 of this chapter, states can approve that only quality assured data from the CEMS shall be used to identify excess emissions under this subpart. Periods where the missing data substitution procedures in subpart D of part 75 are applied are to be reported as monitor downtime in the excess emissions and monitoring performance report required under §60.7(c).
- e) All required fuel flow rate, steam flow rate, temperature, pressure, and megawatt data must be reduced to hourly averages.
- f) Calculate the hourly average NO_x emission rates, in units of the emission standards under §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:

$$E = (\text{NO}_x)_h * (\text{HI})_h / P \quad (\text{Eq. 1})$$

Where:

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

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

**SECTION E. Source Group Restrictions.**

(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:

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

Where:

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

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

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

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

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,

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 $3.413 \times 10^6 =$ conversion from Btu/h to MW.

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

3) N/A

(g) For simple cycle units without heat recovery, use the calculated hourly average emission rates from paragraph (f) of this section to assess excess emissions on a 4-hour rolling average basis, as described in §60.4380(b)(1).

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

[Plan Approval 26-00535B E.IV.014]

V. REPORTING REQUIREMENTS.**# 019 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The Owner/Operator shall provide U.S. EPA with the notifications required by 40 CFR Part 60 Subpart A.

[Plan Approval 26-00535B E.V.015]

020 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]**Subpart A - General Provisions****Address.**

**SECTION E. Source Group Restrictions.**

The Facility 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
400 Waterfront Drive
Pittsburgh, PA 15222-4745

Associated Director
Office of Air Enforcement and Compliance Assistance (3AP20)
U.S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

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

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

[Plan Approval 26-00535B E.V.016]

021 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4375]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What reports must I submit?**

What reports must I submit?

- a) For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content under this subpart, you must submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction.
- b) For each affected unit that performs annual performance tests in accordance with §60.4340(a), you must submit a written report of the results of each performance test before the close of business on the 60th day following the completion of the performance test.

[Plan Approval 26-00535B E.V.017]

022 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4395]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****When must I submit my reports?**

When must I submit my reports?

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

[Plan Approval 26-00535B E.V.018]

VI. WORK PRACTICE REQUIREMENTS.**# 023 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Turbines CGT1 and CGT2 shall be equipped with dry low NOx combustors and turbine exhaust gases shall be treated with selective catalytic reduction (SCR) for NOx control, and oxidation catalyst (OC) for VOC and CO control.

024 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4333]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What are my general requirements for complying with this subpart?**

**SECTION E. Source Group Restrictions.**

What are my general requirements for complying with this subpart?

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

b) N/A

[Plan Approval 26-00535B E.VI.019]

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

[Authority for this condition is also derived from 40 CFR 64, Compliance Assurance Monitoring (CAM)]

Combustion Gas Turbine Nos. 1 and 2 Compliance Assurance Monitoring Plan.

As part of their compliance assurance monitoring (CAM) plan, the permittee will conduct a performance test to demonstrate compliance with emission and operational limitations to control CO, VOC, and formaldehyde emissions. The owner/operator is proposing that the parameter monitoring, reporting and recordkeeping requirements.

a) Monitoring Requirements

(1) The permittee shall install and maintain temperature monitoring devices to monitor the temperature of combustion gases at the inlet, and outlet of the oxidation catalyst bed.

(2) The combustion gas temperature at the inlet of the oxidation catalyst bed shall be maintained between 500 and 850 degrees Fahrenheit, as a 3-hour rolling average, during steady state operation. The combustion gas temperature at the outlet of the oxidation catalyst bed shall be maintained between 500 and 850 degrees Fahrenheit, as a 3-hour rolling average, during steady state operation. Periods of startup and shutdown shall not be included in any 3-hour rolling average.

(3) The permittee shall conduct a visual inspection of the oxidation catalyst bed annually. This inspection shall be conducted in order to determine the presence and extent of any catalyst bed damage or fouling.

b) Recordkeeping Requirements

(1) The permittee shall maintain hourly records of the combustion gas temperature at the inlet of the oxidation catalyst bed. These hourly records shall be reduced to 3-hour, rolling averages in order to verify steady state operation within the indicator range of 500 to 650 degrees Fahrenheit.

(2) The permittee shall maintain hourly records of the combustion gas temperature at the outlet of the oxidation catalyst bed. These hourly records shall be reduced to 3-hour, rolling averages in order to verify steady state operation within the indicator range of 500 to 850 degrees Fahrenheit.

(3) The permittee shall maintain records of the annual visual inspection of the oxidation catalyst bed. These records shall indicate the presence of any damage or fouling, the extent of any damage or fouling, and the corrective action taken (if any) in response to any observed conditions.

(4) The permittee shall maintain all records, in a manner suitable for inspection, for a period of five years.

c) Reporting Requirements

(1) The permittee shall report any 3-hour, rolling average of the combustion gas temperature at the inlet of the oxidation catalyst that occurs outside of the 500 to 850 degree Fahrenheit indicator range, the probable cause of the excursion, and any corrective action taken.

(2) The permittee shall report any 3-hour, rolling average of the combustion gas temperature at the outlet of the oxidation

**SECTION E. Source Group Restrictions.**

catalyst that occurs outside of the 500 to 850 degree Fahrenheit indicator range, the probable cause of the excursion, and any corrective action taken.

[The following is from 40 CFR § 64.4(e)]

If the monitoring submitted by the owner or operator requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of this part, the owner or operator shall include an implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring. The implementation plan and schedule shall provide for use of the monitoring as expeditiously as practicable after approval of the monitoring in the part 70 or 71 permit pursuant to § 64.6, but in no case shall the schedule for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. (Activities that are part of the implementation plan can occur before issuance of the permit, subject to prior approval of the Department.)

026 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4305]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

Does this subpart apply to my stationary combustion turbine?

Does this subpart apply to my stationary combustion turbine?

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

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

[Plan Approval 26-00535B E.VII.021]

027 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4305]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

Does this subpart apply to my stationary combustion turbine?

The two CGTs with heat recovery steam generators and duct burners are subject to the requirements of 40 CFR Part 60 Subpart KKKK – Standards of Performance for Stationary Combustion Turbines.

[Plan Approval 26-00535B E.VII.020]

028 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4420]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What definitions apply to this subpart?

All terms used in 40 CFR Part 60 Subpart KKKK shall have the meaning given in 40 CFR §60.4420 or else in the Clean Air Act and 40 CFR Part 60 Subpart A.

[Plan Approval 26-00535B E.VII.022]

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

**SECTION E. Source Group Restrictions.**

Group Name: G02

Group Description: Emergency Diesel Firewater and Generator Engines

Sources included in this group

ID	Name
104	DIESEL EMERGENCY FIREWATER PUMP ENGINE(265 BHP)
105	DIESEL EMERGENCY GENERATOR ENGINE (489 BHP)

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6665]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What parts of the General Provisions apply to me?**

Table 8 to this subpart shows which parts of the General Provisions in §§ 63.1 through 63.15 apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with any of the requirements of the General Provisions specified in Table 8: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing stationary RICE that combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an existing emergency stationary RICE, or an existing limited use stationary RICE. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in the General Provisions specified in Table 8 except for the initial notification requirements: A new stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new emergency stationary RICE, or a new limited use stationary RICE.

[75 FR 9678, Mar. 3, 2010]

Operation Hours Restriction(s).**# 002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

(a) You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in § 63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.

(c) N/A

(d) N/A

(e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an existing 4SLB

**SECTION E. Source Group Restrictions.**

stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.

(f) If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary RICE in emergency situations.

(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

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

(ii) Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

(iii) Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

(3) Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) N/A

(ii) N/A

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3,

**SECTION E. Source Group Restrictions.**

2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6704, Jan. 30, 2013]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.**# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

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

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations as required in § 63.10(b)(2)(viii).

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(b) N/A

(c) N/A

(d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.

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

(1) N/A

(2) An existing stationary emergency RICE.

(3) N/A

(f) If you own or operate any of the stationary RICE in paragraphs (f)(1) through (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must

**SECTION E. Source Group Restrictions.**

document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in § 63.6640(f)(2)(ii) or (iii) or § 63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

(1) An existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines.

(2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines.

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

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6660]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****In what form and how long must I keep my records?**

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

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

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

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

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.**# 005 [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?**

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 2b to this subpart that apply to you.

(b) N/A

(c) N/A

(d) N/A

(e) N/A

(f) N/A

Table 2d: Beginning May 3, 2013, the permittee shall:

**SECTION E. Source Group Restrictions.**

- 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;
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [from Table 2d of 40 CFR Part 63, Subpart ZZZZ]

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

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

(a) N/A

(b) N/A

(c) N/A

(d) N/A

(e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:

(1) N/A

(2) N/A

(3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;

(4) N/A

(5) N/A

(6) N/A

(7) N/A

(8) N/A

(9) N/A

(10) N/A

(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.

(g) N/A

(h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

**SECTION E. Source Group Restrictions.**

(i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

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

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

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

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

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

The permittee shall:

- i. Operate and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
- ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[from Table 6 of 40 CFR Part 63, Subpart ZZZZ]

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: G03

Group Description: Cross State Air Pollution Rule (CSAPR)

Sources included in this group

ID	Name
101	CGT TRAIN 1 COMBINED CYCLE TURBINE
102	CGT TRAIN 2 COMBINED CYCLE TURBINE

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

The requirements of 25 Pa. Code §§ 123.102 to 123.111 and 123.113, which pertained to the NOx Budget Rule, were replaced by the CAIR requirements and subsequently by the CSAPR requirements and have been removed from this permit. The requirements of 25 Pa. Code §§ 145.204, 145.205, 145.212, 145.213, 145.221, 145.222, 145.223 and the requirements of § 40 CFR 97.106, 97.206, and 97.306, which pertained to the CAIR requirements, were replaced by the CSAPR requirements and have been removed from this permit.

002 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.404]**Subpart AAAAA - CSAPR NOx Annual Trading Program****Applicability.**

(a) CTG-1 (Source ID 101) and CTG-2 (Source ID 102) are subject to the applicable requirements of 40 CFR Part 97, Subpart AAAAA - CSAPR NOx Annual Trading Program. As determined by 97.410 and adjusted on an annual basis by EPA, CTG-1 (Source ID 101) and CTG-2 (Source ID 102) are allocated the following CSAPR NOx Annual allowances for the years 2021 through 2024:

Year NOx Annual Allocation (tons)

CTG-1	CTG-2
(Source ID 101)	(Source ID 102)

**SECTION E. Source Group Restrictions.**

2021	34	37
2022	34	37
2023	34	37
2024	34	37

[Data allowances are available at EPA's Air Markets Program Data (<https://ampd.epa.gov/ampd/>).]

(b) In accordance with 40 CFR § § 97.421, EPA will announce in a notice of data availability and record in the CTG-1 and CTG-2 Annual NOx Compliance Account, the allowance allocations for control periods beyond the year 2024.

(c) The allowances in subsection (a) of this condition are subject to change. Any changes will be promulgated by US EPA in a notice of data availability. Upon promulgation, the new allowances replace the amounts in subsection (a) by rule.

**# 003 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.406]
Subpart AAAAA - CSAPR NOx Annual Trading Program
Standard requirements.**

(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 CSAPR NOx Annual source and each CSAPR NOx 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 CSAPR NOx Annual allowances under §§97.411(a)(2) and (b) and 97.412 and to determine compliance with the CSAPR NOx 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) NOx EMISSIONS REQUIREMENTS.

(1) CSAPR NOx ANNUAL EMISSIONS LIMITATION.

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

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

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

(B) The owners and operators of the source and each CSAPR NOx 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) CSAPR NOx ANNUAL ASSURANCE PROVISIONS.

**SECTION E. Source Group Restrictions.**

(i) If total NOX emissions during a control period in a given year from all CSAPR NOX Annual units at CSAPR NOX 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 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 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 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 Annual units at CSAPR 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 CSAPR 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 the year of such control period.

(iii) Total NOX emissions from all CSAPR NOX Annual units at CSAPR 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 CSAPR NOX Annual units at CSAPR 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 CSAPR NOX Annual units at CSAPR 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 CSAPR 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 CSAPR 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 CSAPR 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 CSAPR 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 CSAPR NOX ANNUAL ALLOWANCES HELD FOR COMPLIANCE.

(i) A CSAPR NOX Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a

**SECTION E. Source Group Restrictions.**

control period in a given year must be a CSAPR NOX Annual allowance that was allocated or auctioned for such control period or a control period in a prior year.

(ii) A CSAPR NOX Annual 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 Annual 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 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 CSAPR 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:

(i) Such authorization shall only be used in accordance with the CSAPR NOX 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 CSAPR NOX 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 CSAPR NOX Annual 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 §§97.430 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 CSAPR NOX Annual source and each CSAPR NOX 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 CSAPR NOX 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.

**SECTION E. Source Group Restrictions.**

(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 Annual Trading Program.

(2) The designated representative of a CSAPR NOX Annual source and each CSAPR NOX Annual unit at the source shall make all submissions required under the CSAPR NOX 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 CSAPR NOX Annual Trading Program that applies to a CSAPR NOX Annual source or the designated representative of a CSAPR NOX Annual source shall also apply to the owners and operators of such source and of the CSAPR NOX Annual units at the source.

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

(g) EFFECT ON OTHER AUTHORITIES.

No provision of the CSAPR NOX 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 CSAPR NOX Annual source or CSAPR NOX Annual unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

[76 FR 48379, Aug. 8, 2011, as amended at 77 FR 10334, Feb. 21, 2012; 79 FR 71672, Dec. 3, 2014; 81 FR 74606, Oct. 26, 2016]

004 [40 CFR Part 97 NOX Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.430]
Subpart AAAAA - CSAPR NOX Annual Trading Program
General monitoring, recordkeeping, and reporting requirements.

The owners and operators, and to the extent applicable, the designated representative, of a CSAPR NOX Annual unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in this subpart and subpart H of part 75 of this chapter. For purposes of applying such requirements, the definitions in §97.402 and in §72.2 of this chapter shall apply, the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in part 75 of this chapter shall be deemed to refer to the terms "CSAPR NOX Annual unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") respectively as defined in §97.402, and the term "newly affected unit" shall be deemed to mean "newly affected CSAPR NOX Annual unit". The owner or operator of a unit that is not a CSAPR NOX Annual unit but that is monitored under §75.72(b)(2)(ii) of this chapter shall comply with the same monitoring, recordkeeping, and reporting requirements as a CSAPR NOX Annual unit.

(a) REQUIREMENTS FOR INSTALLATION, CERTIFICATION, AND DATA ACCOUNTING.

The owner or operator of each CSAPR NOX Annual unit shall:

(1) Install all monitoring systems required under this subpart for monitoring NOX mass emissions and individual unit heat input (including all systems required to monitor NOX emission rate, NOX concentration, stack gas moisture content, stack gas flow rate, CO₂ or O₂ concentration, and fuel flow rate, as applicable, in accordance with §§75.71 and 75.72 of this chapter);

(2) Successfully complete all certification tests required under §97.431 and meet all other requirements of this subpart and part 75 of this chapter applicable to the monitoring systems under paragraph (a)(1) of this section; and

(3) Record, report, and quality-assure the data from the monitoring systems under paragraph (a)(1) of this section.

(b) COMPLIANCE DEADLINES. Except as provided in paragraph (e) of this section, the owner or operator of a CSAPR NOX Annual unit shall meet the monitoring system certification and other requirements of paragraphs (a)(1) and (2) of this section on or before the later of the following dates and shall record, report, and quality-assure the data from the monitoring

**SECTION E. Source Group Restrictions.**

systems under paragraph (a)(1) of this section on and after the later of the following dates:

- (1) January 1, 2015; or
- (2) 180 calendar days after the date on which the unit commences commercial operation.
- (3) The owner or operator of a CSAPR NOX Annual unit for which construction of a new stack or flue or installation of add-on NOX emission controls is completed after the applicable deadline under paragraph (b)(1) or (2) of this section shall meet the requirements of §75.4(e)(1) through (4) of this chapter, except that:
 - (i) Such requirements shall apply to the monitoring systems required under §97.430 through §97.435, rather than the monitoring systems required under part 75 of this chapter;
 - (ii) NOX emission rate, NOX concentration, stack gas moisture content, stack gas volumetric flow rate, and O₂ or CO₂ concentration data shall be determined and reported, rather than the data listed in §75.4(e)(2) of this chapter; and
 - (iii) Any petition for another procedure under §75.4(e)(2) of this chapter shall be submitted under §97.435, rather than §75.66 of this chapter.

(c) REPORTING DATA.

The owner or operator of a CSAPR NOX Annual unit that does not meet the applicable compliance date set forth in paragraph (b) of this section for any monitoring system under paragraph (a)(1) of this section shall, for each such monitoring system, determine, record, and report maximum potential (or, as appropriate, minimum potential) values for NOX concentration, NOX emission rate, stack gas flow rate, stack gas moisture content, fuel flow rate, and any other parameters required to determine NOX mass emissions and heat input in accordance with §75.31(b)(2) or (c)(3) of this chapter, section 2.4 of appendix D to part 75 of this chapter, or section 2.5 of appendix E to part 75 of this chapter, as applicable.

(d) PROHIBITIONS.

- (1) No owner or operator of a CSAPR NOX Annual unit shall use any alternative monitoring system, alternative reference method, or any other alternative to any requirement of this subpart without having obtained prior written approval in accordance with §97.435.
- (2) No owner or operator of a CSAPR NOX Annual unit shall operate the unit so as to discharge, or allow to be discharged, NOX to the atmosphere without accounting for all such NOX in accordance with the applicable provisions of this subpart and part 75 of this chapter.
- (3) No owner or operator of a CSAPR NOX Annual unit shall disrupt the continuous emission monitoring system, any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording NOX mass discharged into the atmosphere or heat input, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the applicable provisions of this subpart and part 75 of this chapter.
- (4) No owner or operator of a CSAPR NOX Annual unit shall retire or permanently discontinue use of the continuous emission monitoring system, any component thereof, or any other approved monitoring system under this subpart, except under any one of the following circumstances:
 - (i) During the period that the unit is covered by an exemption under §97.405 that is in effect;
 - (ii) The owner or operator is monitoring emissions from the unit with another certified monitoring system approved, in accordance with the applicable provisions of this subpart and part 75 of this chapter, by the Administrator for use at that unit that provides emission data for the same pollutant or parameter as the retired or discontinued monitoring system; or
 - (iii) The designated representative submits notification of the date of certification testing of a replacement monitoring system for the retired or discontinued monitoring system in accordance with §97.431(d)(3)(i).

**SECTION E. Source Group Restrictions.**

(e) LONG-TERM COLD STORAGE. The owner or operator of a CSAPR NOX Annual unit is subject to the applicable provisions of §75.4(d) of this chapter concerning units in long-term cold storage.

[76 FR 48379, Aug. 8, 2011, as amended at 79 FR 71672, Dec. 3, 2014; 81 FR 74607, Oct. 26, 2016]

**# 005 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.434]
Subpart AAAAA - CSAPR NOX Annual Trading Program
Recordkeeping and reporting.**

Recordkeeping and reporting.

(a) GENERAL PROVISIONS.

The designated representative shall comply with all recordkeeping and reporting requirements in paragraphs (b) through (e) of this section, the applicable recordkeeping and reporting requirements under §75.73 of this chapter, and the requirements of §97.414(a).

(b) MONITORING PLANS.

The owner or operator of a CSAPR NOX Annual unit shall comply with the requirements of §75.73(c) and (e) of this chapter.

(c) CERTIFICATION APPLICATIONS.

The designated representative shall submit an application to the Administrator within 45 days after completing all initial certification or recertification tests required under §97.431, including the information required under §75.63 of this chapter.

(d) QUARTERLY REPORTS.

The designated representative shall submit quarterly reports, as follows:

(1) The designated representative shall report the NOX mass emissions data and heat input data for a CSAPR NOX Annual unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with the later of:

(i) The calendar quarter covering January 1, 2015 through March 31, 2015; or

(ii) The calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under §97.430(b).

(2) The designated representative shall submit each quarterly report to the Administrator within 30 days after the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in §75.73(f) of this chapter.

(3) For CSAPR NOX Annual units that are also subject to the Acid Rain Program, CSAPR NOX Ozone Season Group 1 Trading Program, CSAPR NOX Ozone Season Group 2 Trading Program, CSAPR NOX Ozone Season Group 3 Trading Program, CSAPR SO2 Group 1 Trading Program, or CSAPR SO2 Group 2 Trading Program, quarterly reports shall include the applicable data and information required by subparts F through H of part 75 of this chapter as applicable, in addition to the NOX mass emission data, heat input data, and other information required by this subpart.

(4) The Administrator may review and conduct independent audits of any quarterly report in order to determine whether the quarterly report meets the requirements of this subpart and part 75 of this chapter, including the requirement to use substitute data.

(i) The Administrator will notify the designated representative of any determination that the quarterly report fails to meet any such requirements and specify in such notification any corrections that the Administrator believes are necessary to make through resubmission of the quarterly report and a reasonable time period within which the designated representative must respond. Upon request by the designated representative, the Administrator may specify reasonable extensions of such time period. Within the time period (including any such extensions) specified by the Administrator, the designated representative

**SECTION E. Source Group Restrictions.**

shall resubmit the quarterly report with the corrections specified by the Administrator, except to the extent the designated representative provides information demonstrating that a specified correction is not necessary because the quarterly report already meets the requirements of this subpart and part 75 of this chapter that are relevant to the specified correction.

(ii) Any resubmission of a quarterly report shall meet the requirements applicable to the submission of a quarterly report under this subpart and part 75 of this chapter, except for the deadline set forth in paragraph (d)(2) of this section.

(e) COMPLIANCE CERTIFICATION.

The designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(1) The monitoring data submitted were recorded in accordance with the applicable requirements of this subpart and part 75 of this chapter, including the quality assurance procedures and specifications; and

(2) For a unit with add-on NOX emission controls and for all hours where NOX data are substituted in accordance with §75.34(a)(1) of this chapter, the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to part 75 of this chapter and the substitute data values do not systematically underestimate NOX emissions.

[76 FR 48379, Aug. 8, 2011, as amended at 79 FR 71672, Dec. 3, 2014; 81 FR 74607, Oct. 26, 2016]

**# 006 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.604]
Subpart CCCCC - CSAPR SO2 Group 1 Trading Program
Applicability.**

(a) CTG-1 (Source ID 101) and CTG-2 (Source ID 102) are subject to the applicable requirements of 40 CFR Part 97, Subpart CCCCC - CSAPR SO2 Group 1 Trading Program. As determined by 97.610 and adjusted on an annual basis by EPA, CTG-1 (Source ID 101) and CTG-2 (Source ID 102) are allocated the following CSAPR SO2 Group 1 allowances for the years 2021 through 2024:

Year SO2 Group 1 Annual Allocation (tons)

	CTG-1 (Source ID 101)	CTG-2 (Source ID 102)
2021	3	3
2022	3	3
2023	3	3
2024	3	3

[Data allowances are available at EPA's Air Markets Program Data (<https://ampd.epa.gov/ampd/>).]

(b) In accordance with 40 CFR § 97.621, EPA will announce in a notice of data availability and record in the #1 CFB Boiler and #2 CFB Boiler Annual SO2 Group 1 Compliance Account, the allowance allocations for control periods beyond the year 2024.

(c) The allowances in subsection (a) of this condition are subject to change. Any changes will be promulgated by US EPA in a notice of data availability. Upon promulgation, the new allowances replace the amounts in subsection (a) by rule.

**# 007 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.606]
Subpart CCCCC - CSAPR SO2 Group 1 Trading Program
Standard requirements.**

(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.

**SECTION E. Source Group Restrictions.****(b) EMISSIONS MONITORING, REPORTING, AND RECORDKEEPING REQUIREMENTS.**

(1) The owners and operators, and the designated representative, of each CSAPR SO₂ Group 1 source and each CSAPR 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 CSAPR SO₂ Group 1 allowances under §§97.611(a)(2) and (b) and 97.612 and to determine compliance with the CSAPR SO₂ Group 1 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 §§97.630 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) CSAPR SO₂ GROUP 1 EMISSION LIMITATION.**

(i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, CSAPR 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 CSAPR SO₂ Group 1 units at the source.

(ii) If total SO₂ emissions during a control period in a given year from the CSAPR SO₂ Group 1 units at a CSAPR SO₂ Group 1 source are in excess of the CSAPR 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 CSAPR SO₂ Group 1 unit at the source shall hold the CSAPR SO₂ Group 1 allowances required for deduction under §97.624(d); and

(B) The owners and operators of the source and each CSAPR 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) CSAPR SO₂ GROUP 1 ASSURANCE PROVISIONS.

(i) If total SO₂ emissions during a control period in a given year from all CSAPR SO₂ Group 1 units at CSAPR 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) CSAPR 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 CSAPR SO₂ Group 1 units at CSAPR 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 CSAPR SO₂ Group 1 allowances required under paragraph (c)(2)(i) of this

**SECTION E. Source Group Restrictions.**

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 SO₂ emissions from all CSAPR SO₂ Group 1 units at CSAPR 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 CSAPR SO₂ Group 1 units at CSAPR 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 CSAPR SO₂ Group 1 units at CSAPR 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 CSAPR 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 CSAPR 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 CSAPR 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 CSAPR 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 CSAPR SO₂ GROUP 1 ALLOWANCES HELD FOR COMPLIANCE.

(i) A CSAPR 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 CSAPR SO₂ Group 1 allowance that was allocated or auctioned for such control period or a control period in a prior year.

(ii) A CSAPR SO₂ Group 1 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 SO₂ Group 1 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 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 CSAPR 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 CSAPR SO₂ Group 1 Trading Program; and

**SECTION E. Source Group Restrictions.**

(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 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 CSAPR 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 B 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) 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 CSAPR SO₂ Group 1 source and each CSAPR 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 CSAPR 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 CSAPR SO₂ Group 1 Trading Program.

(2) The designated representative of a CSAPR SO₂ Group 1 source and each CSAPR SO₂ Group 1 unit at the source shall make all submissions required under the CSAPR 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 CSAPR SO₂ Group 1 Trading Program that applies to a CSAPR SO₂ Group 1 source or the designated representative of a CSAPR SO₂ Group 1 source shall also apply to the owners and operators of such source and of the CSAPR SO₂ Group 1 units at the source.

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

(g) EFFECT ON OTHER AUTHORITIES.

**SECTION E. Source Group Restrictions.**

No provision of the CSAPR 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 CSAPR SO₂ Group 1 source or CSAPR 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.

[76 FR 48432, Aug. 8, 2011, as amended at 77 FR 10338, Feb. 21, 2012; 79 FR 71672, Dec. 3, 2014; 81 FR 74616, Aug. 8, 2011;]

008 [40 CFR Part 97 NO_x Budget Trading Program and CAIR NO_x and SO₂ Trading Programs §40 CFR 97.630]
Subpart CCCCC - CSAPR SO₂ Group 1 Trading Program
General monitoring, recordkeeping, and reporting requirements.

Owners and operators, and to the extent applicable, the designated representative, of a CSAPR SO₂ Group 1 unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in this subpart and subparts F and G of part 75 of this chapter. For purposes of applying such requirements, the definitions in §97.602 and in §72.2 of this chapter shall apply, the terms “affected unit,” “designated representative,” and “continuous emission monitoring system” (or “CEMS”) in part 75 of this chapter shall be deemed to refer to the terms “CSAPR SO₂ Group 1 unit,” “designated representative,” and “continuous emission monitoring system” (or “CEMS”) respectively as defined in §97.602, and the term “newly affected unit” shall be deemed to mean “newly affected CSAPR SO₂ Group 1 unit”. The owner or operator of a unit that is not a CSAPR SO₂ Group 1 unit but that is monitored under §75.16(b)(2) of this chapter shall comply with the same monitoring, recordkeeping, and reporting requirements as a CSAPR SO₂ Group 1 unit.

(a) REQUIREMENTS FOR INSTALLATION, CERTIFICATION, AND DATA ACCOUNTING.

The owner or operator of each CSAPR SO₂ Group 1 unit shall:

- (1) Install all monitoring systems required under this subpart for monitoring SO₂ mass emissions and individual unit heat input (including all systems required to monitor SO₂ concentration, stack gas moisture content, stack gas flow rate, CO₂ or O₂ concentration, and fuel flow rate, as applicable, in accordance with §§75.11 and 75.16 of this chapter);
- (2) Successfully complete all certification tests required under §97.631 and meet all other requirements of this subpart and part 75 of this chapter applicable to the monitoring systems under paragraph (a)(1) of this section; and
- (3) Record, report, and quality-assure the data from the monitoring systems under paragraph (a)(1) of this section.

(b) COMPLIANCE DEADLINES.

Except as provided in paragraph (e) of this section, the owner or operator of a CSAPR SO₂ Group 1 unit shall meet the monitoring system certification and other requirements of paragraphs (a)(1) and (2) of this section on or before the later of the following dates and shall record, report, and quality-assure the data from the monitoring systems under paragraph (a)(1) of this section on and after the later of the following dates:

- (1) January 1, 2015; or
- (2) 180 calendar days after the date on which the unit commences commercial operation.
- (3) The owner or operator of a CSAPR SO₂ Group 1 unit for which construction of a new stack or flue or installation of add-on SO₂ emission controls is completed after the applicable deadline under paragraph (b)(1) or (2) of this section shall meet the requirements of §75.4(e)(1) through (4) of this chapter, except that:
 - (i) Such requirements shall apply to the monitoring systems required under §97.630 through §97.635, rather than the monitoring systems required under part 75 of this chapter;
 - (ii) SO₂ concentration, stack gas moisture content, stack gas volumetric flow rate, and O₂ or CO₂ concentration data shall be determined and reported, rather than the data listed in §75.4(e)(2) of this chapter; and
 - (iii) Any petition for another procedure under §75.4(e)(2) of this chapter shall be submitted under §97.635, rather than §75.66 of this chapter.

**SECTION E. Source Group Restrictions.****(c) REPORTING DATA.**

The owner or operator of a CSAPR SO₂ Group 1 unit that does not meet the applicable compliance date set forth in paragraph (b) of this section for any monitoring system under paragraph (a)(1) of this section shall, for each such monitoring system, determine, record, and report maximum potential (or, as appropriate, minimum potential) values for SO₂ concentration, stack gas flow rate, stack gas moisture content, fuel flow rate, and any other parameters required to determine SO₂ mass emissions and heat input in accordance with §75.31(b)(2) or (c)(3) of this chapter or section 2.4 of appendix D to part 75 of this chapter, as applicable.

(d) PROHIBITIONS.

(1) No owner or operator of a CSAPR SO₂ Group 1 unit shall use any alternative monitoring system, alternative reference method, or any other alternative to any requirement of this subpart without having obtained prior written approval in accordance with §97.635.

(2) No owner or operator of a CSAPR SO₂ Group 1 unit shall operate the unit so as to discharge, or allow to be discharged, SO₂ to the atmosphere without accounting for all such SO₂ in accordance with the applicable provisions of this subpart and part 75 of this chapter.

(3) No owner or operator of a CSAPR SO₂ Group 1 unit shall disrupt the continuous emission monitoring system, any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording SO₂ mass discharged into the atmosphere or heat input, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the applicable provisions of this subpart and part 75 of this chapter.

(4) No owner or operator of a CSAPR SO₂ Group 1 unit shall retire or permanently discontinue use of the continuous emission monitoring system, any component thereof, or any other approved monitoring system under this subpart, except under any one of the following circumstances:

(i) During the period that the unit is covered by an exemption under §97.605 that is in effect;

(ii) The owner or operator is monitoring emissions from the unit with another certified monitoring system approved, in accordance with the applicable provisions of this subpart and part 75 of this chapter, by the Administrator for use at that unit that provides emission data for the same pollutant or parameter as the retired or discontinued monitoring system; or

(iii) The designated representative submits notification of the date of certification testing of a replacement monitoring system for the retired or discontinued monitoring system in accordance with §97.631(d)(3)(i).

(e) LONG-TERM COLD STORAGE.

The owner or operator of a CSAPR SO₂ Group 1 unit is subject to the applicable provisions of §75.4(d) of this chapter concerning units in long-term cold storage.

[76 FR 48379, Aug. 8, 2011, as amended at 79 FR 71672, Dec. 3, 2014; 81 FR 74617, Oct. 26, 2016]

009 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO₂ Trading Programs §40 CFR 97.634]**Subpart CCCCC - CSAPR SO₂ Group 1 Trading Program****Recordkeeping and reporting.****(a) GENERAL PROVISIONS.**

The designated representative shall comply with all recordkeeping and reporting requirements in paragraphs (b) through (e) of this section, the applicable recordkeeping and reporting requirements in subparts F and G of part 75 of this chapter, and the requirements of §97.614(a).

(b) MONITORING PLANS.

The owner or operator of a CSAPR SO₂ Group 1 unit shall comply with the requirements of §75.62 of this chapter.

**SECTION E. Source Group Restrictions.****(c) CERTIFICATION APPLICATIONS.**

The designated representative shall submit an application to the Administrator within 45 days after completing all initial certification or recertification tests required under §97.631, including the information required under §75.63 of this chapter.

(d) QUARTERLY REPORTS. The designated representative shall submit quarterly reports, as follows:

(1) The designated representative shall report the SO₂ mass emissions data and heat input data for a CSAPR SO₂ Group 1 unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with the later of:

(i) The calendar quarter covering January 1, 2015 through March 31, 2015; or

(ii) The calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under §97.630(b).

(2) The designated representative shall submit each quarterly report to the Administrator within 30 days after the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in §75.64 of this chapter.

(3) For CSAPR SO₂ Group 1 units that are also subject to the Acid Rain Program, CSAPR NO_x Annual Trading Program, CSAPR NO_x Ozone Season Group 1 Trading Program, CSAPR NO_x Ozone Season Group 2 Trading Program, or CSAPR NO_x Ozone Season Group 3 Trading Program, quarterly reports shall include the applicable data and information required by subparts F through H of part 75 of this chapter as applicable, in addition to the SO₂ mass emission data, heat input data, and other information required by this subpart.

(4) The Administrator may review and conduct independent audits of any quarterly report in order to determine whether the quarterly report meets the requirements of this subpart and part 75 of this chapter, including the requirement to use substitute data.

(i) The Administrator will notify the designated representative of any determination that the quarterly report fails to meet any such requirements and specify in such notification any corrections that the Administrator believes are necessary to make through resubmission of the quarterly report and a reasonable time period within which the designated representative must respond. Upon request by the designated representative, the Administrator may specify reasonable extensions of such time period. Within the time period (including any such extensions) specified by the Administrator, the designated representative shall resubmit the quarterly report with the corrections specified by the Administrator, except to the extent the designated representative provides information demonstrating that a specified correction is not necessary because the quarterly report already meets the requirements of this subpart and part 75 of this chapter that are relevant to the specified correction.

(ii) Any resubmission of a quarterly report shall meet the requirements applicable to the submission of a quarterly report under this subpart and part 75 of this chapter, except for the deadline set forth in paragraph (d)(2) of this section.

(e) COMPLIANCE CERTIFICATION.

The designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(1) The monitoring data submitted were recorded in accordance with the applicable requirements of this subpart and part 75 of this chapter, including the quality assurance procedures and specifications; and

(2) For a unit with add-on SO₂ emission controls and for all hours where SO₂ data are substituted in accordance with §75.34(a)(1) of this chapter, the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to part 75 of this chapter and the substitute data values do not systematically underestimate SO₂ emissions.

**SECTION E. Source Group Restrictions.**

[76 FR 48379, Aug. 8, 2011, as amended at 79 FR 71672, Dec. 3, 2014; 81 FR 74618, Oct. 26, 2016]

010 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.804]**Subpart EEEEE - CSAPR NOx Ozone Season Group 2 Trading Program****Applicability.**

(a) CTG-1 (Source ID 101) and CTG-2 (Source ID 102) are subject to the applicable requirements of 40 CFR Part 97, Subpart EEEEE - CSAPR NOx Ozone Season Group 2 Trading Program. As determined by 97.810 and adjusted on an annual basis by EPA, CTG-1 (Source ID 101) and CTG-2 (Source ID 102) are allocated the following CSAPR NOx Ozone Season (May 1 through September 30) allowances for year 2020:

Year NOx Ozone Season Group 2 Annual Allocation (tons)

	CTG-1 (Source ID 101)	CTG-2 (Source ID 102)
--	--------------------------	--------------------------

2020	28	27
------	----	----

(b) The following sections of § 97 Subpart EEEEE are incorporated by reference. Compliance with equivalent sections of § 97 Subpart GGGGG also ensures compliance with these sections.

- (1) § 97.806 (Standard requirements).
- (2) § 97.830 (General monitoring, recordkeeping, & reporting).
- (3) § 97.834 (Recordkeeping & reporting).

[Effective June 29, 2021, § 97 Subpart GGGGG replaces § 97 Subpart EEEEE for Pennsylvania. The NOx ozone season allocations above will be used in calculating supplemental allowances for 2021 ozone season, specifically from May 1 through June 28, 2021 period.]

011 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR §97.1004]**Subpart GGGGG - CSAPR NOx Ozone Season Group 3 Trading Program****Applicability.**

(a) CTG-1 (Source ID 101) and CTG-2 (Source ID 102) are subject to the applicable requirements of 40 CFR Part 97, Subpart GGGGG - CSAPR NOx Ozone Season Group 3 Trading Program. As determined by 97.1010 and adjusted on an annual basis by EPA, CTG-1 (Source ID 101) and CTG-2 (Source ID 102) are allocated the following CSAPR NOx Ozone Season (May 1 through September 30) allowances for the years 2021 through 2024:

Year NOx Ozone Season Group 2 Annual Allocation (tons)

	CTG-1 (Source ID 101)	CTG-2 (Source ID 102)
--	--------------------------	--------------------------

2021	31	30
2022	31	30
2023	31	30
2024	31	30

(b) In accordance with 40 CFR § § 97.1021, EPA will announce in a notice of data availability and record in the CTG-1 and CTG-2 Annual NOx Ozone Season Group 3 Compliance Account, the allowance allocations for control periods beyond the year 2024.

(c) The allowances in subsection (a) of this condition are subject to change. Any changes will be promulgated by US EPA in a notice of data availability. Upon promulgation, the new allowances replace the amounts in subsection (a) by rule.

[Effective June 29, 2021, § 97 Subpart GGGGG replaces § 97 Subpart EEEEE for Pennsylvania.]

012 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR §97.1006]**Subpart GGGGG - CSAPR NOx Ozone Season Group 3 Trading Program****Standard requirements.**

(a) DESIGNATED REPRESENTATIVE REQUIREMENTS.

**SECTION E. Source Group Restrictions.**

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 NOX Ozone Season Group 3 source and each CSAPR NOX 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 data determined in accordance with §§ 97.1030 through 97.1035 shall be used to calculate allocations of CSAPR NOX Ozone Season Group 3 allowances under §§ 97.1011(a)(2) and (b) and 97.1012 and to determine compliance with the CSAPR NOX Ozone Season Group 3 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 §§ 97.1030 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) NOX EMISSIONS REQUIREMENTS.

(1) CSAPR NOX OZONE SEASON GROUP 3 EMISSIONS LIMITATION.

(i) As of the allowance transfer deadline for a control period in a given year, 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 hold, in the source's compliance account, CSAPR NOX Ozone Season Group 3 allowances available for deduction for such control period under § 97.1024(a) in an amount not less than the tons of total NOX emissions for such control period from all CSAPR NOX Ozone Season Group 3 units at the source.

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

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

(B) The owners and operators of the source and each CSAPR NOX 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.

(2) CSAPR NOX OZONE SEASON GROUP 3 ASSURANCE PROVISIONS.

(i) If total NOX emissions during a control period in a given year from all base CSAPR NOX Ozone Season Group 3 units at base 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

**SECTION E. Source Group Restrictions.**

(B) The amount by which total NOX emissions from all base CSAPR NOX Ozone Season Group 3 units at base 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 base CSAPR NOX Ozone Season Group 3 units at base 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(b), and, for the control period in 2021 only, the product (rounded to the nearest allowance) of 1.21 multiplied by the supplemental amount of CSAPR NOX Ozone Season Group 3 allowances determined for the State under § 97.1010(d).

(iv) It shall not be a violation of this subpart or of the Clean Air Act if total NOX emissions from all base CSAPR NOX Ozone Season Group 3 units at base 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 base CSAPR NOX Ozone Season Group 3 units at base 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 paragraph (c)(1) of this section for the control period starting on the later of May 1, 2021 or the deadline for meeting the unit's monitor certification requirements under § 97.1030(b) and for each control period thereafter.

(ii) A base CSAPR NOX Ozone Season Group 3 unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later of May 1, 2021 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.

**SECTION E. Source Group Restrictions.****(6) LIMITED AUTHORIZATION.**

A CSAPR NOX Ozone Season Group 3 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:

- (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.

(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

**SECTION E. Source Group Restrictions.**

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.

**# 013 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR §97.1030]
Subpart GGGGG - CSAPR NOX Ozone Season Group 3 Trading Program
General monitoring, recordkeeping, and reporting requirements.**

The owners and operators, and to the extent applicable, the designated representative, of a CSAPR NOX Ozone Season Group 3 unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in this subpart and subpart H of part 75 of this chapter. For purposes of applying such requirements, the definitions in § 97.1002 and in § 72.2 of this chapter shall apply, the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in part 75 of this chapter shall be deemed to refer to the terms "CSAPR NOX Ozone Season Group 3 unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") respectively as defined in §97.1002, and the term "newly affected unit" shall be deemed to mean "newly affected CSAPR NOX Ozone Season Group 3 unit". The owner or operator of a unit that is not a CSAPR NOX Ozone Season Group 3 unit but that is monitored under §75.72(b)(2)(ii) of this chapter shall comply with the same monitoring, recordkeeping, and reporting requirements as a CSAPR NOX Ozone Season Group 3 unit.

(a) REQUIREMENTS FOR INSTALLATION, CERTIFICATION, AND DATA ACCOUNTING.

The owner or operator of each CSAPR NOX Ozone Season Group 3 unit shall:

(1) Install all monitoring systems required under this subpart for monitoring NOX mass emissions and individual unit heat input (including all systems required to monitor NOX emission rate, NOX concentration, stack gas moisture content, stack gas flow rate, CO2 or O2 concentration, and fuel flow rate, as applicable, in accordance with §§75.71 and 75.72 of this chapter);

(2) Successfully complete all certification tests required under § 97.1031 and meet all other requirements of this subpart and part 75 of this chapter applicable to the monitoring systems under paragraph (a)(1) of this section; and

3) Record, report, and quality-assure the data from the monitoring systems under paragraph (a)(1) of this section.

(b) COMPLIANCE DEADLINES.

Except as provided in paragraph (e) of this section, the owner or operator of a CSAPR NOX Ozone Season Group 3 unit shall meet the monitoring system certification and other requirements of paragraphs (a)(1) and (2) of this section on or before the latest of the following dates and shall record, report, and quality-assure the data from the monitoring systems under paragraph (a)(1) of this section on and after the latest of the following dates:

(1) May 1, 2021;

(2) 180 calendar days after the date on which the unit commences commercial operation; or

(3) Where data for the unit are reported on a control period basis under § 97.1034(d)(1)(ii)(B), and where the compliance date under paragraph (b)(2) of this section is not in a month from May through September, May 1 immediately after the compliance date under paragraph (b)(2) of this section.

(4) The owner or operator of a CSAPR NOX Ozone Season Group 3 unit for which construction of a new stack or flue or

**SECTION E. Source Group Restrictions.**

installation of add-on NOX emission controls is completed after the applicable deadline under paragraph (b)(1), (2), or (3) of this section shall meet the requirements of §75.4(e)(1) through (4) of this chapter, except that:

- (i) Such requirements shall apply to the monitoring systems required under § 97.1030 through §97.1035, rather than the monitoring systems required under part 75 of this chapter;
- (ii) NOX emission rate, NOX concentration, stack gas moisture content, stack gas volumetric flow rate, and O2 or CO2 concentration data shall be determined and reported, rather than the data listed in §75.4(e)(2) of this chapter; and
- (iii) Any petition for another procedure under §75.4(e)(2) of this chapter shall be submitted under § 97.1035, rather than §75.66 of this chapter.

(c) REPORTING DATA.

The owner or operator of a CSAPR NOX Ozone Season Group 3 unit that does not meet the applicable compliance date set forth in paragraph (b) of this section for any monitoring system under paragraph (a)(1) of this section shall, for each such monitoring system, determine, record, and report maximum potential (or, as appropriate, minimum potential) values for NOX concentration, NOX emission rate, stack gas flow rate, stack gas moisture content, fuel flow rate, and any other parameters required to determine NOX mass emissions and heat input in accordance with §75.31(b)(2) or (c)(3) of this chapter, section 2.4 of appendix D to part 75 of this chapter, or section 2.5 of appendix E to part 75 of this chapter, as applicable.

(d) PROHIBITIONS.

- (1) No owner or operator of a CSAPR NOX Ozone Season Group 3 unit shall use any alternative monitoring system, alternative reference method, or any other alternative to any requirement of this subpart without having obtained prior written approval in accordance with § 97.1035.
- (2) No owner or operator of a CSAPR NOX Ozone Season Group 3 unit shall operate the unit so as to discharge, or allow to be discharged, NOX to the atmosphere without accounting for all such NOX in accordance with the applicable provisions of this subpart and part 75 of this chapter.
- (3) No owner or operator of a CSAPR NOX Ozone Season Group 3 unit shall disrupt the continuous emission monitoring system, any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording NOX mass discharged into the atmosphere or heat input, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the applicable provisions of this subpart and part 75 of this chapter.
- (4) No owner or operator of a CSAPR NOX Ozone Season Group 3 unit shall retire or permanently discontinue use of the continuous emission monitoring system, any component thereof, or any other approved monitoring system under this subpart, except under any one of the following circumstances:
 - (i) During the period that the unit is covered by an exemption under § 97.1005 that is in effect;
 - (ii) The owner or operator is monitoring emissions from the unit with another certified monitoring system approved, in accordance with the applicable provisions of this subpart and part 75 of this chapter, by the Administrator for use at that unit that provides emission data for the same pollutant or parameter as the retired or discontinued monitoring system; or
 - (iii) The designated representative submits notification of the date of certification testing of a replacement monitoring system for the retired or discontinued monitoring system in accordance with § 97.1031(d)(3)(i).

014 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR §97.1034] Subpart GGGGG - CSAPR NOX Ozone Season Group 3 Trading Program Recordkeeping and reporting.

(a) GENERAL PROVISIONS.

The designated representative shall comply with all recordkeeping and reporting requirements in paragraphs (b) through

**SECTION E. Source Group Restrictions.**

(e) of this section, the applicable recordkeeping and reporting requirements under §75.73 of this chapter, and the requirements of § 97.1014(a).

(b) MONITORING PLANS.

The owner or operator of a CSAPR NOX Ozone Season Group 3 unit shall comply with the requirements of §75.73(c) and (e) of this chapter.

(c) CERTIFICATION APPLICATIONS.

The designated representative shall submit an application to the Administrator within 45 days after completing all initial certification or recertification tests required under § 97.1031, including the information required under §75.63 of this chapter.

(d) QUARTERLY REPORTS. The designated representative shall submit quarterly reports, as follows:

(1)

(i) If a CSAPR NOX Ozone Season Group 3 unit is subject to the Acid Rain Program or the CSAPR NOX Annual Trading Program or if the owner or operator of such unit chooses to report on an annual basis under this subpart, then the designated representative shall meet the requirements of subpart H of part 75 of this chapter (concerning monitoring of NOX mass emissions) for such unit for the entire year and report the NOX mass emissions data and heat input data for such unit for the entire year.

(ii) If a CSAPR NOX Ozone Season Group 3 unit is not subject to the Acid Rain Program or the CSAPR NOX Annual Trading Program, then the designated representative shall either:

(A) Meet the requirements of subpart H of part 75 of this chapter for such unit for the entire year and report the NOX mass emissions data and heat input data for such unit for the entire year in accordance with paragraph (d)(1)(i) of this section; or

(B) Meet the requirements of subpart H of part 75 of this chapter (including the requirements in §75.74(c) of this chapter) for such unit for the control period and report the NOX mass emissions data and heat input data (including the data described in §75.74(c)(6) of this chapter) for such unit only for the control period of each year.

(2) The designated representative shall report the NOX mass emissions data and heat input data for a CSAPR NOX Ozone Season Group 3 unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter indicated under paragraph (d)(1) of this section beginning by the latest of:

(i) The calendar quarter covering May 1, 2021 through June 30, 2021;

(ii) The calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under § 97.1030(b); or

(iii) For a unit that reports on a control period basis under paragraph (d)(1)(ii)(B) of this section, if the calendar quarter under paragraph (d)(2)(ii) of this section does not include a month from May through September, the calendar quarter covering May 1 through June 30 immediately after the calendar quarter under paragraph (d)(2)(ii) of this section.

(3) The designated representative shall submit each quarterly report to the Administrator within 30 days after the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in §75.73(f) of this chapter.

(4) For CSAPR NOX Ozone Season Group 3 units that are also subject to the Acid Rain Program, CSAPR NOX Annual Trading Program, CSAPR SO₂ Group 1 Trading Program, or CSAPR SO₂ Group 2 Trading Program, quarterly reports shall include the applicable data and information required by subparts F through H of part 75 of this chapter as applicable, in addition to the NOX mass emission data, heat input data, and other information required by this subpart.

(5) The Administrator may review and conduct independent audits of any quarterly report in order to determine whether the quarterly report meets the requirements of this subpart and part 75 of this chapter, including the requirement to use substitute data.

**SECTION E. Source Group Restrictions.**

(i) The Administrator will notify the designated representative of any determination that the quarterly report fails to meet any such requirements and specify in such notification any corrections that the Administrator believes are necessary to make through resubmission of the quarterly report and a reasonable time period within which the designated representative must respond. Upon request by the designated representative, the Administrator may specify reasonable extensions of such time period. Within the time period (including any such extensions) specified by the Administrator, the designated representative shall resubmit the quarterly report with the corrections specified by the Administrator, except to the extent the designated representative provides information demonstrating that a specified correction is not necessary because the quarterly report already meets the requirements of this subpart and part 75 of this chapter that are relevant to the specified correction.

(ii) Any resubmission of a quarterly report shall meet the requirements applicable to the submission of a quarterly report under this subpart and part 75 of this chapter, except for the deadline set forth in paragraph (d)(3) of this section.

(e) COMPLIANCE CERTIFICATION.

The designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(1) The monitoring data submitted were recorded in accordance with the applicable requirements of this subpart and part 75 of this chapter, including the quality assurance procedures and specifications;

(2) For a unit with add-on NOX emission controls and for all hours where NOX data are substituted in accordance with §75.34(a)(1) of this chapter, the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to part 75 of this chapter and the substitute data values do not systematically underestimate NOX emissions; and

(3) For a unit that is reporting on a control period basis under paragraph (d)(1)(ii)(B) of this section, the NOX emission rate and NOX concentration values substituted for missing data under subpart D of part 75 of this chapter are calculated using only values from a control period and do not systematically underestimate NOX emissions.

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

**SECTION E. Source Group Restrictions.**

Group Name: G04

Group Description: Acid Rain Permit

Sources included in this group

ID	Name
101	CGT TRAIN 1 COMBINED CYCLE TURBINE
102	CGT TRAIN 2 COMBINED CYCLE TURBINE

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 §127.531]****Special conditions related to acid rain.**

1. Sources 101 and 102 are assigned zero sulfur dioxide allowances per year for the purposes of complying with 25 PA Code Section 127.531.

2. In accordance with 25 PA Code Section 127.531(f), this permit prohibits the following:

- a) Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide that the owner or operator or designated representative holds for the unit.
- b) Exceeding applicable emission rates or standards, including ambient air quality standards.
- c) The use of an allowance prior to the year for which it is allocated.
- d) Contravention of other provisions of the permit.

3. In accordance with 25 PA Code Section 127.531(g), this permit prohibits the emissions of sulfur dioxide which exceeds any allowances that the source lawfully holds under Title IV of the Clean Air Act or the regulations thereunder.

- a) A permit revision will not be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, if the increases do not require a permit revision under another applicable requirement.

**SECTION E. Source Group Restrictions.**

b) A limit will not be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with another applicable requirement.

c) An allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act.

4. The source shall comply with all of the requirements in the Phase II Acid Rain Application renewal included in the air quality permit renewal that was submitted to DEP.

002 [25 Pa. Code §127.531]**Special conditions related to acid rain.**

(a) This section describes the permit program for acid deposition control in accordance with Titles IV and V of the Clean Air Act (42 U.S.C.A. 7641 and 7642 and 7661--7661f). The provisions of this section shall be interpreted in a manner consistent with the Clean Air Act and the regulations thereunder.

(b) The owner or operator or the designated representative of each affected source under section 405 of the Clean Air Act (42 U.S.C.A. 7651d) shall submit a permit application and compliance plan for the affected source to the Department within 120 days from notice by the Department to submit an application but no later than January 1, 1996, for sulfur dioxide, and no later than January 1, 1998, for NO_x, that meets the requirements of this chapter, the Clean Air Act and the regulations thereunder.

(c) In the case of affected sources for which an application and plan are timely received, the permit application and the compliance plan, including amendments thereto, shall be binding on the owner or operator or the designated representative of the owner or operator and shall be enforceable as a permit for purposes of this section until a permit is issued by the Department.

(d) A permit issued under this section shall require the source to achieve compliance as soon as possible but no later than the date required by the Clean Air Act or the regulations thereunder for the source.

(e) At any time after the submission of a permit application and compliance plan, the applicant may submit a revised application and compliance plan. In considering a permit application and compliance plan under this section, the Department will coordinate with the Pennsylvania Public Utility Commission consistent with the requirements established by the EPA.

(f) In addition to the other requirements of this chapter, permits issued under this section shall prohibit the following:

(1) Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide that the owner or operator or designated representative holds for the unit.

(2) Exceeding applicable emission rates or standards, including ambient air quality standards.

(3) The use of an allowance prior to the year for which it is allocated.

(4) Contravention of other provisions of the permit.

(g) Each permit issued to a source under Title IV of the Clean Air Act shall contain a condition prohibiting emissions exceeding any allowances that the source lawfully holds under Title IV of the Clean Air Act or the regulations thereunder.

(1) A permit revision will not be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, if the increases do not require a permit revision under another applicable requirement.

(2) A limit will not be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with another applicable requirement.

(3) An allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act.



SECTION E. Source Group Restrictions.

***** 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 Descriptor		
031	AUXILIARY BOILER		
Emission Limit			Pollutant
3.300	Lbs/Hr		CO
14.600	Tons/Yr		CO
1.100	Lbs/Hr		NOX
4.700	Tons/Yr		NOX
0.310	Lbs/Hr		PM10
1.300	Tons/Yr		PM10
0.030	Lbs/Hr		SOX
0.130	Tons/Yr		SOX
0.490	Lbs/Hr		VOC
2.100	Tons/Yr		VOC
101	CGT TRAIN 1 COMBINED CYCLE TURBINE		
Emission Limit			Pollutant
5.900	PPMV	dgb @15%O2	Ammonia
18.900	Lbs/Hr		Ammonia
166.000	Tons/Yr	127.441	Ammonia
3.000	PPMV	dgb @15%O2	CO
15.700	Lbs/Hr		CO
562.300	Tons/Yr	127.441	Carbon Dioxide
1.100	Lbs/Hr		Formaldehyde
9.600	Tons/Yr	127.441	Formaldehyde
2.500	PPMV	dgb @15%O2	NOX
21.600	Lbs/Hr		NOX
286.700	Tons/Yr	127.441	NOX
34.800	Lbs/Hr		PM10
309.800	Tons/Yr	127.441	PM10_FILTER
1.200	PPMV	dgb @15%O2	SOX
14.500	Lbs/Hr		SOX
126.700	Tons/Yr	127.441	SOX
3.300	PPMV	dgb @15%O2	VOC
10.000	Lbs/Hr		VOC
87.300	Tons/Yr	127.441	VOC
102	CGT TRAIN 2 COMBINED CYCLE TURBINE		
Emission Limit			Pollutant
5.900	PPMV	dgb @15%O2	Ammonia
18.900	Lbs/Hr		Ammonia
166.000	Tons/Yr	127.441	Ammonia
3.000	PPMV	dgb @15%O2	CO
15.700	Lbs/Hr		CO
562.300	Tons/Yr	127.441	Carbon Dioxide
1.100	Lbs/Hr		Formaldehyde
9.600	Tons/Yr	127.441	Formaldehyde
2.500	PPMV	dgb @15%O2	NOX

**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor		
		21.600 Lbs/Hr	NOX
		286.700 Tons/Yr	127.441 NOX
		34.800 Lbs/Hr	PM10
		309.800 Tons/Yr	127.441 PM10_FILTER
		1.200 PPMV	dgb @15%O2 SOX
		14.500 Lbs/Hr	SOX
		126.700 Tons/Yr	127.441 SOX
		3.300 PPMV	dgb @15%O2 VOC
		10.000 Lbs/Hr	VOC
		87.300 Tons/Yr	127.441 VOC
104	DIESEL EMERGENCY FIREWATER PUMP ENGINE(265 BHP)		
		Emission Limit	Pollutant
		0.330 Tons/Yr	CO
		1.320 Lbs/Hr	CO
		1.550 Tons/Yr	NOX
		6.200 Lbs/Hr	NOX
		0.110 Tons/Yr	PM10
		0.440 Lbs/Hr	PM10
		0.100 Tons/Yr	SOX
		0.400 Lbs/Hr	SOX
		0.130 Tons/Yr	VOC
		0.520 Lbs/Hr	VOC
105	DIESEL EMERGENCY GENERATOR ENGINE (489 BHP)		
		Emission Limit	Pollutant
		3.800 Tons/Yr	CO
		15.200 Lbs/Hr	CO
		3.100 Tons/Yr	NOX
		12.400 Lbs/Hr	NOX
		0.180 Tons/Yr	PM10
		0.720 Lbs/Hr	PM10
		1.000 Tons/Yr	SOX
		4.000 Lbs/Hr	SOX
		0.440 Tons/Yr	VOC
		1.760 Lbs/Hr	VOC
106	CONDENSER COOLING TOWER		
		Emission Limit	Pollutant
		0.360 Lbs/Hr	PM10
		1.560 Tons/Yr	PM10

**SECTION G. Emission Restriction Summary.****Site Emission Restriction Summary**

Emission Limit		Pollutant
581.000 Tons/Yr	127.441	CO
128.000 Tons/Yr	127.441	SOX
296.100 Tons/Yr	127.441	NOX
90.000 Tons/Yr	127.441	VOC
313.000 Tons/Yr	127.441	PM10_PRI
9.600 Tons/Yr	127.441	Formaldehyde
166.000 Tons/Yr	127.441	Ammonia

**SECTION H. Miscellaneous.**

A. Section G in the proposed Operating Permit is designed to be a general summary of emission limitations for individual processes, or the entire facility. Neither the capacities/throughputs listed in Section A, nor emissions listed in Section G are enforceable conditions.

B. The following description of the emission processes at Fayette is for information purposes only:

This Operating Permit authorizes Fayette Power Company, LLC to operate an electrical generation facility known as the Fayette Energy Facility, located in German Township, Fayette County.

The main sources at this facility are two GE Model PG 7241 combustion gas turbines (CGT). Turbines are in combined cycle service, each equipped with duct burners and a heat recovery steam generator (HRSG). The HRSGs of both CGT systems supply steam to a single condensing reheat steam turbine generator (STG), and a surface condenser serving the STG. Both the CGTs and duct burners utilize natural gas as a fuel. Maximum heat input is 1,920 MMBtu/hour for each CGT, itself, and 589 MMBtu/hour for the associated duct burners, for a total heat input of 2,509 MMBtu/hour to each of turbine systems. The combustion gas turbines can also operate in a combined cycle mode, without firing the duct burners, resulting in a lower steam generation rate in the HRSG.

The turbines are equipped with dry, low NO_x combustors. Turbine exhaust gases are treated with selective catalytic reduction (SCR) for NO_x control, and an oxidation catalyst (OC) for VOC and CO control.

Supporting equipment at this site includes an auxiliary boiler, (rated at 30.6 MMBtu/hr and equipped with low NO_x burners) one cooling tower with drift eliminators, three chiller cooling towers with drift eliminators, diesel firewater pump engine, and a diesel emergency generator engine.

The following sources at this facility are insignificant emitters of air emissions: Bulk Tanks in main cooling tower tank farm and at river intake structure, Water and Chemical Storage Tanks, Diesel Fuel Oil and Kerosene Tanks, and a Parts Washer.

C. The potential to emit from this new facility was established under the plan approval at 296 tons of NO_x and 90 tons of VOC per year and in accordance with Pa. Code Title 25 § 127.210 was offset with Emission Reduction Credits (ERCs) at a ratio of 1.15:1.0.

D. As required by Pa. Code Title 25 § 127.210, the Owner/operator secured 341 tons of NO_x ERCs and 104 tons of VOC ERCs for the plan approval. These ERCs were properly generated, certified by the Department and processed through the registry in accordance with Pa. Code Title 25 § 127.206(d)(1). Upon procurement of the required ERCs, the owner/operator provided the Department with documentation clearly specifying the details of the ERC transaction. The Plan Approval was modified to indicate Departmental approval of the transfer and use of said ERCs in accordance with Pa. Code Title 25 § 127.208(2).

E. The construction was subject to Pa. Code Title 25 §§ 127.206(d)(1) and (2), and other applicable sections of Chapter 127, Subchapter E, for non-attainment New Source Review. In accordance with Pa. Code Title 25 § 127.205(3), each modification to a facility was offset in accordance with Pa. Code Title 25 §§ 127.201 and 127.211, the total of the net increase in potential to emit.

F. PADEP methodology for reduction of visual opacity data observed in accordance with EPA Method 9: This data reduction methodology differs from EPA Method 9 in that it does not require a single continuous time interval and does not average datum of individual observations. Visual observations in accordance with Method 9 take place every 15 seconds and are recorded for this time interval. Since the observations of 10%, or greater, can be during multiple intervals, the number of high opacity observation readings are merely counted. For an emission limitation of opacity not to exceed 10% for a period or periods aggregating more than three minutes in any 1 hour, a total of 13 observations of greater than 10% opacity would exceed this standard. Similarly, 7 observations of greater than 10% opacity, over a 30 minute period of observation would also exceed the standard.

G. On September 18, 2015, the name of the owner of this facility was changed to Dynegy Fayette II, LLC.

H. Plan Approval PA-26-00535B was incorporated into this Title V Operating Permit. This Plan Approval, issued on March 2, 2016, replaced components of the turbine section and to change combustion control logic to increase combustion air flow for each combustion gas turbine ("CGT") at the Fayette Energy Facility (formerly Fayette Energy Center) located in Masontown Borough, Fayette County. These upgrades have been collectively labeled as the Advanced Gas Path ("AGP") project.

I. On or about August 1, 2016, Fayette Power Company, LLC (FPC) submitted an Administrative Amendment letter to the Department requesting that PA-26-00535B conditions be incorporated into the Title V Operating Permit and also include their RACT II plan.

J. FPC is a major source for NO_x and VOC emissions and subject to RACT II requirements. The following sources are subject to RACT II:

**SECTION H. Miscellaneous.**

- Source 031- natural-gas-fired auxiliary boiler, 30.6 MMBtu/hr
- Source 101 – natural-gas-fired Combustion Turbine, 1,920 MMBtu/hr
- Source 102 – natural-gas-fired Combustion Turbine, 1,920 MMBtu/hr
- Source 104 - diesel-fired firewater pump engine, 265 hp
- Source 105 - diesel-fired emergency generator engine, 489 hp

FPC was in compliance with all applicable RACT II emission limits and compliance demonstration requirements by January 1, 2017.

K. On June 19, 2017, this Title V renewal application was submitted and identified a change in Responsible Official (RO) to Thomas Buelter, Director of Plant Operations and the presumptive RACT II.

L. Nine (9) Plan Approval temporary operation period extensions for Plan Approval PA-26-00535B were issued to allow for issuance of the Title V Permit renewal.

The 9th plan approval extension request received by the Department on July 23, 2021 was approved on August 2, 2021 identified a new Responsible Official, Ronald George, Plant Manager, and new company name, Fayette Power Company LLC (FPC), and other contact information.

M. This is a major Title V facility for NO_x, CO, PM₁₀, PM_{2.5}, VOC, and CO_{2e} and as such; actual emissions may equal or exceed the following in any consecutive 12-month period:

- 100.0 tons of NO_x (NITROGEN OXIDES)
- 100.0 tons of CO (CARBON MONOXIDE)
- 100.0 tons of PM-10 (PARTICULATE MATTER < 10 MICRONS)
- 100.0 tons of PM-2.5 (PARTICULATE MATTER < 2.5 MICRONS)
- 50.0 tons of VOC (VOLATILE ORGANIC COMPOUNDS)

N. This is a natural minor facility with respect to SO_x, any Single HAP, and Total HAP and as such, actual emissions can not equal or exceed the following in any consecutive 12-month period:

- 100.0 tons of SO_x (SULFUR OXIDES)
- 10.0 tons of ANY SINGLE HAP (HAZARDOUS AIR POLLUTANT)
- 25.0 tons of ALL HAP COMBINED (HAZARDOUS AIR POLLUTANT)

O. This TV renewal includes Group 03 with the updated Cross State Air Pollution Rule (CSAPR) and the 25 Pa Code §127.511 Title V CSAPR Trading Program and Group G04 with the 40 CFR 72 Acid Rain Permit.

P. This modification incorporates RACT III requirements.

Q. Insignificant / miscellaneous air contamination sources at this facility include:

Outside Chemical Tanks:

- Tank 001A - Sulfuric Acid 93% – 6,500 Gallon
- Tank 010A - Aluminum Sulfate 50% – 5,000 Gallon
- Tank 009A - Sodium Hypochlorite 12.5% - 5,000 Gallon
- Tank 008A - Sodium Hydroxide 50% - 6,500 Gallon
- Tank 005A – Ammonium Hydroxide 19.5% - 20,000 Gallon

Inside Chemical Tanks:

- Tank 006A - Sodium Hypochlorite 12.5% - 545 Gallon
- Depositrol BL6501 - 235 Gallon
- Inhibitor AZ8104 – 80 Gallon (1 Tank)
- Optisperse HP3100 – 60 Gallon (2 Tanks)
- Steamate NA1321 – 60 Gallon
- Tank 011A – Depositrol BL6501 – 1050 Gallon

Misc. Totes and Drums Inside – (all water treatment chemicals):

- Spectrus DT1404
- Polyfloc AE1125 Contains VOC's, VP < 0.35 psia
- Gengard GN8300
- Optisperse PO5070

**SECTION H. Miscellaneous.**

Fuel Tanks:

- Bulk Tank – Diesel 285 Gallon, (VOCs < 1 lb/yr), VP < 0.02 psia
- Emergency Generator – Diesel 700 Gallon (VOCs <1 lb/yr), VP < 0.02 psia
- Diesel Fire Pump – Diesel 350 Gallon (VOCs <1 lb/yr), VP < 0.02 psia
- Bulk Tank – Gasoline 285 Gallon

Parts washer - 15-gallon Smart Washer Model 23 that uses SW-4 Ozzy Juice Heavy Duty Degreasing Solution



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