COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: November 25, 2024 Effective Date: November 25, 2024

Expiration Date: November 24, 2029

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

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

TITLE V Permit No: 55-00026

Federal Tax Id - Plant Code: 47-1427528-1

Owner Information

Name: HUMMEL STA LLC
Mailing Address: PO BOX 518
SHAMOKIN DAM, PA 17876-0518

Plant Information

Plant: HUMMEL STA LLC/SUNBURY NAT GAS PLT
Location: 55 Snyder County 55915 Shamokin Dam Borough
SIC Code: 4911 Trans. & Utilities - Electric Services

Responsible Official

Name: KERRY ANN COLVILLE
Title: GENERAL MANAGER
Phone: (856) 628 - 3210 Email: kerry.colville@picgroupinc.com

Permit Contact Person

Name: STEVEN SMITH
Title: O&M MANAGER
Phone: (972) 955 - 3294 Email: Steven.Smith@picgroupinc.com

[Signature] _____

MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION

SECTION A. Table of Contents

Section A. Facility/Source Identification

Section B. General Title V Requirements

Section C. Site Level Title V Requirements

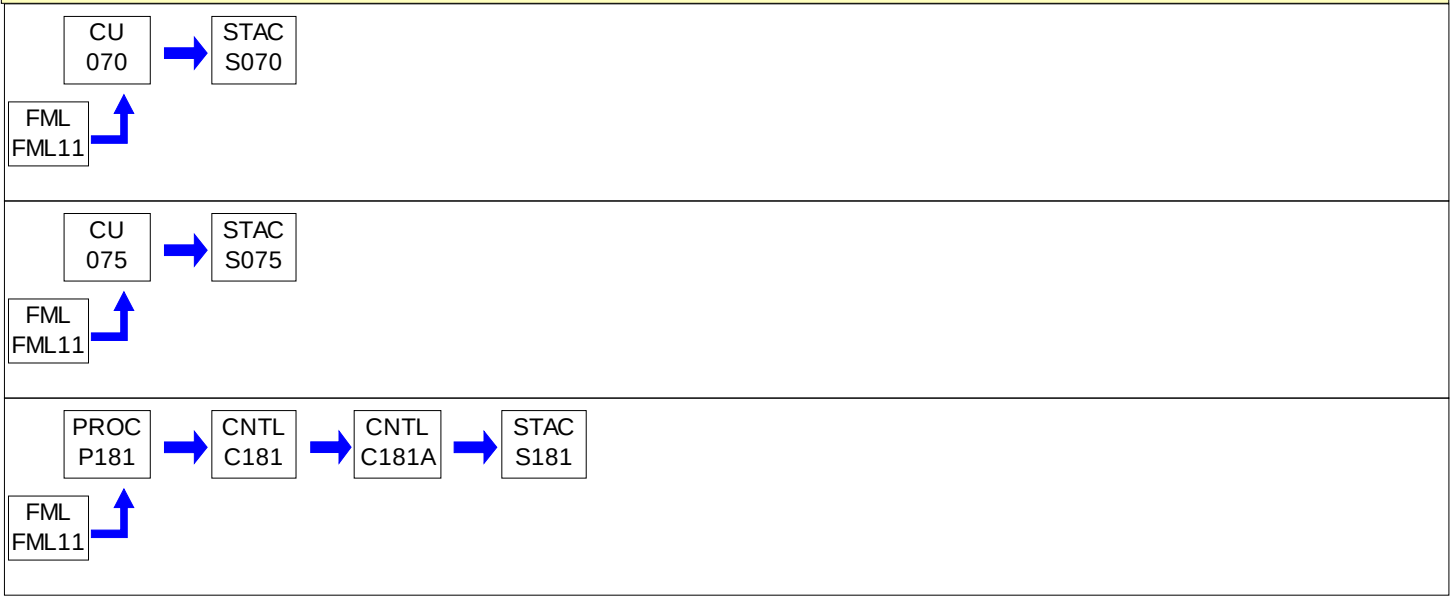
Section D. Source Level Title V Requirements

SECTION A. Table of Contents

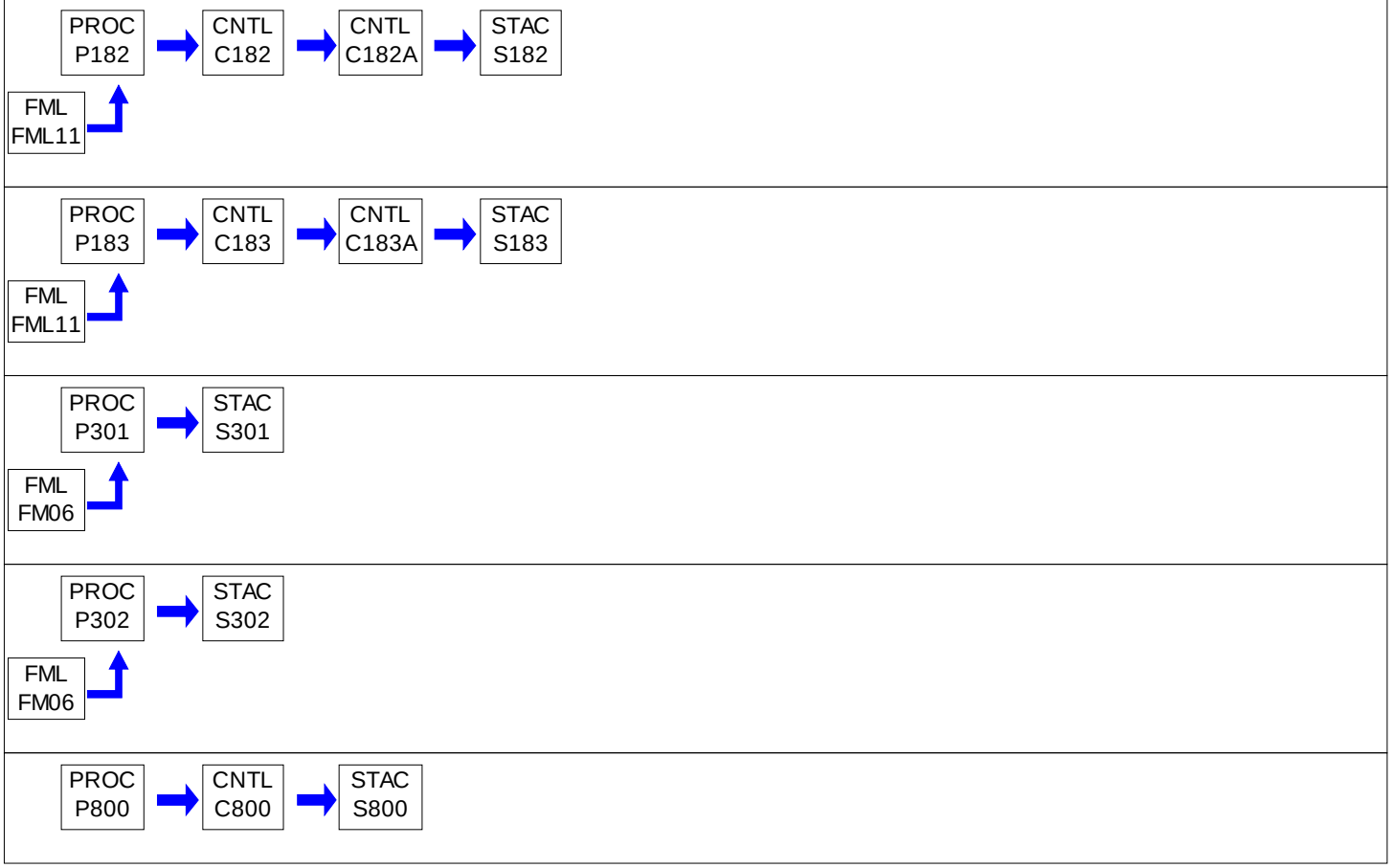
SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput		Fuel/Material
070	AUX BOILER	31.000	MMBTU/HR	
075	DEW POINT HEATER	15.000	MMBTU/HR	
P181	SIEMENS F5EE CCGT #1 AND DUCT BURNER	2,585.100	MMBTU/HR	
P182	SIEMENS F5EE CCGT #2 AND DUCT BURNER	2,585.100	MMBTU/HR	
P183	SIEMENS F5EE CCGT #3 AND DUCT BURNER	2,585.100	MMBTU/HR	
P301	DIESEL FIRE PUMP			
P302	EMERGENCY GENERATOR			
P800	COOLING TOWER			
C181	SCR FOR CCGT 1			
C181A	OXIDATION CATALYST FOR CCGT 1			
C182	SCR FOR CCGT 2			
C182A	OXIDATION CATALYST FOR CCGT 2			
C183	SCR FOR CCGT 3			
C183A	OXIDATION CATALYST FOR CCGT 3			
C800	DRIFT ELIMINATOR			
FM06	FUEL OIL STORAGE			
FML11	NAT GAS LINE			
S070	AUX BOILER STACK			
S075	DEW POINT HEATER STACK			
S181	CCGT #1 STACK			
S182	CCGT #2 STACK			
S183	CCGT #3 STACK			
S301	FIRE PUMP STACK			
S302	EMERGENCY GENERATOR STACK			
S800	COOLING TOWER STACK			

PERMIT MAPS



PERMIT MAPS


PROC P182
CNTL C182
CNTL C182A
STAC S182
FML FML11
PROC P183
CNTL C183
CNTL C183A
STAC S183
FML FML11
PROC P301
STAC S301
FML FM06
PROC P302
STAC S302
FML FM06
PROC P800
CNTL C800
STAC S800

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

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

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

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

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

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

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

SECTION B. General Title V Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Reactivation of Sources

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

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

#021 [25 Pa. Code §§ 121.9 & 127.216]

Circumvention

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

SECTION B. General Title V Requirements

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

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

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

Submissions

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

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

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

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

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

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

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

Sampling, Testing and Monitoring Procedures

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

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

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

Recordkeeping Requirements

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

(1) The date, place (as defined in the permit) and time of sampling or measurements.

(2) The dates the analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

SECTION B. General Title V Requirements

(5) The results of the analyses.

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

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

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

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

Reporting Requirements

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

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

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

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

#026 [25 Pa. Code § 127.513]

Compliance Certification

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

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

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

SECTION B. General Title V Requirements

#027 [25 Pa. Code § 127.3]

Operational Flexibility

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

(1) Section 127.14 (relating to exemptions)

(2) Section 127.447 (relating to alternative operating scenarios)

(3) Section 127.448 (relating to emissions trading at facilities with federally enforceable emissions caps)

(4) Section 127.449 (relating to de minimis emission increases)

(5) Section 127.450 (relating to administrative operating permit amendments)

(6) Section 127.462 (relating to minor operating permit amendments)

(7) Subchapter H (relating to general plan approvals and operating permits)

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

Risk Management

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

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

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

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

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

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

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

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

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

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

SECTION B. General Title V Requirements

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

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

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

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

#029 [25 Pa. Code § 127.512(e)]

Approved Economic Incentives and Emission Trading Programs

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

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

Permit Shield

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

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

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

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

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

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

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

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

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

#031 [25 Pa. Code §135.3]

Reporting

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

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

#032 [25 Pa. Code §135.4]

Report Format

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

SECTION C. Site Level Requirements

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

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

(1) Construction or demolition of buildings or structures.

(2) Grading, paving and maintenance of roads and streets.

(3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.

(4) Clearing of land.

(5) Stockpiling of materials.

(6) Open burning operations.

(7) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.

(8) Sources and classes of sources other than those identified above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

(a) the emissions are of minor significance with respect to causing air pollution; and

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

 # 002 [25 Pa. Code §123.2]

Fugitive particulate matter

The permittee shall not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in (1) through (8) in condition #001 if the emissions are visible at the point the emissions pass outside the permittee's property.

 # 003 [25 Pa. Code §123.41]

Limitations

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

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

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

 # 004 [25 Pa. Code §123.42]

Exceptions

The emission limitations in condition #003 shall not apply when:

(1) The presence of uncombined water is the only reason for failure of the emission to meet the limitations;

(2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions;

(3) The emission results from sources specified in condition #001 (1) through (8).

 # 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5520]

Subpart TTTT - Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units

What CO2 emission standard must I meet?

SECTION C. Site Level Requirements

The CO2 emissions from this facility shall not exceed 1,400 lb CO2/MWh on a gross energy output standard.

II. TESTING REQUIREMENTS.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Pursuant to 25 Pa. Code § 139.3, at least 90 calendar days prior to commencing a EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. Electronic copies shall be sent to the Northcentral Regional Office Air Quality Program Manager and the PSIMS Administrator in Central Office. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

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

(c) If applicable, pursuant to 40 CFR § 60.8(a), 40 CFR § 61.13(f) and 40 CFR § 63.7(g), complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an EPA reference method test program.

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

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

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

3. Summary of results with respect to each applicable permit condition.

4. Statement of compliance or non-compliance with each applicable permit condition.

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

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

(g) Pursuant to 25 Pa. Code § § 139.53(a)(1) and 139.53(a)(3), electronic copies of all submittals, besides notifications, shall be sent to the Northcentral Regional Office Air Quality Program Manager, with deadlines verified. In addition, an electronic copy shall be sent to the PSIMS Administrator in Central Office. Email addresses are provided on the PA DEP website.

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

 # 007 [25 Pa. Code §139.1]

Sampling facilities.

SECTION C. Site Level Requirements

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on a 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.

 # 008 [25 Pa. Code §139.11]

General requirements.

(1) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the respective source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(2) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, at a minimum all of the following:

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

(b) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature, and other conditions which may affect emissions from the process.

(c) The location of the sampling ports.

(d) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO2, O2 and N2), static and barometric pressures.

(e) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.

(f) Laboratory procedures and results.

(g) Calculated results.

III. MONITORING REQUIREMENTS.

 # 009 [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.

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The circuit breakers at the facility shall be state-of-the-art sealed enclosed-pressure circuit breakers equipped with low-pressure alarms and a low-pressure lockout where the alarms are triggered when 10% of the sulfur hexafluoride (SF6) (by weight) has escaped. When the alarms are triggered, The permittee shall take corrective action as soon as practicable and fix the circuit breaker units to a like new state in order to prevent the emission of sulfur hexafluoride (SF6) to the maximum extent practicable.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall conduct a daily inspection of the facility during daylight hours while the facility is operating to detect visible emissions, visible fugitive emissions, and malodors. Daily inspections are necessary to determine:

SECTION C. Site Level Requirements

(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 have the potential to exceed applicable limits shall be reported to the manager of the facility.

 # 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5535]

Subpart TTTT - Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units

How do I monitor and collect data to demonstrate compliance?

The permittee shall comply with all applicable monitoring requirements specified in 40 CFR Part 60 Subpart TTTT, Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units, Section 60.5535.

IV. RECORDKEEPING REQUIREMENTS.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

(a) The permittee shall keep a comprehensive and accurate logbook of the daily facility inspections performed. The logbook shall include records of instances of visible emissions, visible fugitive emissions and malodorous air emissions, the name of the company representative monitoring these instances, the date and time of each occurrence, and the wind direction during each instance.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

 # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep accurate and comprehensive records of the following to demonstrate compliance with the requirement for the sources to utilize pipeline quality natural gas as their fuel:

(1) The gas quality characteristics in a current, valid purchase contract, tariff sheet, transportation contract for the fuel or other data compiled by the gas pipeline company, specifying the maximum total sulfur content of the fuel and verifying that the fuel is pipeline quality natural gas.

OR

(2) Representative fuel sampling data showing the sulfur content of the fuel and verifying that the fuel is pipeline quality natural gas.

(a) The records of the fuel sampling performed shall include the following:

(i) The date, place, and time of sampling;
(ii) The date(s) analyses were performed;
(iii) The company or entity that performed the analyses;
(iv) The analytical techniques or methods used;
(v) The results of such analyses; and,
(vi) The operating conditions at the time of sampling or measurement.

(b) All information to satisfy this recordkeeping requirement shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

 # 015 [25 Pa. Code §135.5]

Recordkeeping

SECTION C. Site Level Requirements

The permittee shall maintain and make available upon request of the Department such records, including computerized records that may be necessary to comply with 25 Pa. Code Section 135.3. 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.

All records generated pursuant to this condition shall be retained for a minimum of five years and be made available to the Department upon request.

 # 016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5560]

Subpart TTTT - Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units

What records must I maintain?

(a) You must maintain records of the information you used to demonstrate compliance with this subpart as specified in §60.7(b) and (f).

(b)(1) For affected EGUs subject to the Acid Rain Program, you must follow the applicable recordkeeping requirements and maintain records as required under subpart F of part 75 of this chapter.

(2) For affected EGUs that are not subject to the Acid Rain Program, you must also follow the recordkeeping requirements and maintain records as required under subpart F of part 75 of this chapter, to the extent that those records provide applicable data for the compliance determinations required under this subpart. Regardless of the prior sentence, at a minimum, the following records must be kept, as applicable to the types of continuous monitoring systems used to demonstrate compliance under this subpart:

(i) Monitoring plan records under §75.53(g) and (h) of this chapter;

(ii) Operating parameter records under §75.57(b)(1) through (4) of this chapter;

(iii) The records under §75.57(c)(2) of this chapter, for stack gas volumetric flow rate;

(iv) The records under §75.57(c)(3) of this chapter for continuous moisture monitoring systems;

(v) The records under §75.57(e)(1) of this chapter, except for paragraph (e)(1)(x), for CO2 concentration monitoring systems or O2 monitors used to calculate CO2 concentration;

(vi) The records under §75.58(c)(1) of this chapter, specifically paragraphs (c)(1)(i), (ii), and (viii) through (xiv), for oil flow meters;

(vii) The records under §75.58(c)(4) of this chapter, specifically paragraphs (c)(4)(i), (ii), (iv), (v), and (vii) through (xi), for gas flow meters;

(viii) The quality-assurance records under §75.59(a) of this chapter, specifically paragraphs (a)(1) through (12) and (15), for CEMS;

(ix) The quality-assurance records under §75.59(a) of this chapter, specifically paragraphs (b)(1) through (4), for fuel flow meters; and

(x) Records of data acquisition and handling system (DAHS) verification under §75.59(e) of this chapter.

(c) You must keep records of the calculations you performed to determine the hourly and total CO2 mass emissions (tons) for:

(1) Each operating month (for all affected EGUs); and

(2) Each compliance period, including, each 12-operating-month compliance period.

(d) Consistent with §60.5520, you must keep records of the applicable data recorded and calculations performed that you

SECTION C. Site Level Requirements

used to determine your affected EGU's gross or net energy output for each operating month.

(e) You must keep records of the calculations you performed to determine the percentage of valid CO2 mass emission rates in each compliance period.

(f) You must keep records of the calculations you performed to assess compliance with each applicable CO2 mass emissions standard in Table 1 or 2 of this subpart.

(g) You must keep records of the calculations you performed to determine any site-specific carbon-based F-factors you used in the emissions calculations (if applicable).

V. REPORTING REQUIREMENTS.

 # 017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

(b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.

(c) The report shall describe the following:

1. name, permit or authorization number, and location of the facility,
2. nature and cause of the malfunction, emergency or incident,
3. date and time when the malfunction, emergency or incident was first observed,
4. expected duration of excess emissions,
5. estimated rate of emissions,
6. corrective actions or preventative measures taken.

(d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.

(e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.

(f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.

(g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

 # 018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit all requested reports in accordance with the Department's suggested format.

SECTION C. Site Level Requirements

 # 019 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]

Subpart A - General Provisions

Address.

The submission of all requests, reports, applications, submittals and other communications required by the Standards of Performance must be made to both the Department of Environmental Protection and the Environmental Protection Agency.The Environmental Protection Agency copies may be sent to:

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

and

The Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701-6448

 # 020 [40 CFR Part 98 Mandatory Greenhouse Gas Reporting §40 CFR 98.1]

Subpart A - General Provision

Purpose and scope.

The permittee shall comply with the applicable Mandatory GHG Reporting requirements of 40 CFR Part 98.

(a) The facility shall comply with the requirements in 40 CFR Part 98 Subpart D, (40 CFR §§ 98.40 through 98.48).

VI. WORK PRACTICE REQUIREMENTS.

 # 021 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne from any source specified in (1) through (8) in condition #001 herein. These actions shall include, but not be limited to, the following:

(1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.

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

(3) Paving and maintenance of roadways.

(4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

VII. ADDITIONAL REQUIREMENTS.

 # 022 [25 Pa. Code §121.7]

Prohibition of air pollution.

The permittee shall not permit air pollution as that term is defined in the Pennsylvania Air Pollution Control Act (35 P.S. §§ 4001-4015).

 # 023 [25 Pa. Code §123.31]

Limitations

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

SECTION C. Site Level Requirements

 # 024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

All air-contaminant sources and control devices shall be maintained and operated in accordance with all applicable and appropriate manufacturer's recommended maintenance and operation parameters.

 # 025 [25 Pa. Code §129.14]

Open burning operations

The permittee shall not permit the open burning of material at this facility unless in accordance with 25 Pa. Code Section 129.14.

 # 026 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5509]

Subpart TTTT - Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units

Am I subject to this subpart?

Hummel Station LLC is subject to 40 CFR Part 60 Subpart TTTT, Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units, Sections 60.5508 - 60.5580. The permittee shall comply with all applicable requirements of this subpart.

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: 070 Source Name: AUX BOILER

Source Capacity/Throughput: 31.000 MMBTU/HR

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authoirty for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The nitrogen oxides emissions from Source ID 070 shall not exceed 0.036 lbs/MMBTU and 4.89 tons in any 12 consecutive month period.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authoirty for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The carbon monoxide (CO) emissions from Source ID 070 shall not exceed 0.074 lbs/MMBTU and 10.04 tons in any 12 consecutive month period.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authoirty for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The volatile organic compounds (VOC) emissions from Source ID 070 shall not exceed 0.005 lbs/MMBTU and 0.68 tons in any 12 consecutive month period.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Compliance with this streamlined plan approval condition also assures compliance with the provisions of 25 Pa. Code Section 123.22][Additional authoirty for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The sulfur oxides (SOx) emissions from Source ID 070 shall not exceed 0.003 lbs/MMBTU and 0.41 tons in any 12 consecutive month period.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Compliance with this streamlined plan approval condition also assures compliance with the provisions of 25 Pa. Code Section 123.11][Additional authoirty for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The total particulate matter emissions, including PM10 and PM2.5 from Source ID 070 shall not exceed 0.008 lbs/MMBTU and 1.08 tons in any 12 consecutive month period.

SECTION D. Source Level Requirements

Fuel Restriction(s).

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authoirty for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID 070 shall only be fired on pipeline quality natural gas.

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.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following:

(a) the supporting calculations on a monthly basis for the NOx emissions from Source ID 070 to verify compliance with the NOx emissions limitations of pounds per million Btu, pounds and tons in any 12 consecutive month period.

(b) the supporting calculations on a monthly basis for the CO emissions from Source ID 070 to verify compliance with the CO emissions limitations of pounds per million Btu and tons in any 12 consecutive month period.

(c) the supporting calculations on a monthly basis for the SOx emissions from Source ID 070 to verify compliance with the SOx emissions limitations of pounds per million Btu and tons in any 12 consecutive month period.

(d) the supporting calculations on a monthly basis for the total PM and PM10 emissions from Source ID 070 to verify compliance with the total PM and PM10 emissions limitations of pounds per million Btu and tons in any 12 consecutive month period.

(e) the supporting calculations on a monthly basis for the VOC emissions from Source ID 070 to verify compliance with the VOC emissions limitations of pounds per million Btu and tons in any 12 consecutive month period.

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

 # 008 [25 Pa. Code §129.115]

Written notification, compliance demonstration and recordkeeping and reporting requirements

The owner or operator of a combustion unit or process heater subject to § 129.112(b) shall record each adjustment conducted under the procedures in § 129.112(b). This record must contain, at a minimum:

(1) The date of the tuning procedure.

(2) The name of the service company and the technician performing the procedure.

(3) The final operating rate or load.

(4) The final NOx and CO emission rates.

(5) The final excess oxygen rate.

SECTION D. Source Level Requirements

(6) Other information required by the applicable operating permit.

The records shall be retained by the owner or operator for 5 years and made available to the Department or appropriate approved local air pollution control agency upon receipt of a written request from the Department or appropriate approved local air pollution control agency.

 # 009 [25 Pa. Code §129.115]

Written notification, compliance demonstration and recordkeeping and reporting requirements

Beginning with the compliance date specified in § 129.112(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable VOC emission rate threshold specified in § 129.114(c) and the requirements of § 129.112 based on the air contamination source's potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.

 # 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units

Reporting and recordkeeping requirements.

The permittee shall keep records of the amount of natural gas combusted in Source ID 070 on a daily basis.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

 # 011 [25 Pa. Code §129.112]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule

Source ID 070 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.

VII. ADDITIONAL REQUIREMENTS.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 070 is an 31 MMBTU/hr English Boiler and Tube, Inc model DS natural gas fired auxilliary boiler.

SECTION D. Source Level Requirements

 # 013 [25 Pa. Code §129.111]

Applicability

Sections 129.112—129.114 do not apply to the owner and operator of a VOC air contamination source that has the potential to emit less than 1 TPY of VOC located at a major VOC emitting facility subject to subsection (a) or (b). The owner or operator shall identify and list these sources in the written notification required under § 129.115(a).

 # 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.40c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units

Applicability and delegation of authority.

Source ID 070 is subject to the New Source Performance Standards, 40 CFR Part 60, Subpart Dc and shall comply with all applicable requirements as specified in 40 CFR Sections 60.40c through 60.48c.

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

SECTION D. Source Level Requirements

Source ID: 075 Source Name: DEW POINT HEATER

Source Capacity/Throughput: 15.000 MMBTU/HR

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authoirty for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The nitrogen oxides emissions from Source ID 075 shall not exceed 0.085 lbs/MMBTU and 5.58 tons in any 12 consecutive month period.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authoirty for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The carbon monoxide (CO) emissions from Source ID 075 shall not exceed 0.037 lbs/MMBTU and 2.43 tons in any 12 consecutive month period.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authoirty for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The volatile organic compounds (VOC) emissions from Source ID 075 shall not exceed 0.006 lbs/MMBTU and 0.39 tons in any 12 consecutive month period.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Compliance with this streamlined operating permit condition assures compliance with the provisions of 25 Pa. Code Section
123.22][Additional authoirty for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The sulfur oxides (SOx) emissions from Source ID 075 shall not exceed 0.003 lbs/MMBTU and 0.19 tons in any 12 consecutive month period.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Compliance with this streamlined operating permit condition assures compliance with the provisions of 25 Pa. Code Section
123.11][Additional authoirty for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The total particulate matter emissions, including PM10 and PM2.5 from Source ID 075 shall not exceed 0.008 lbs/MMBTU and 0.52 tons in any 12 consecutive month period.

SECTION D. Source Level Requirements

Fuel Restriction(s).

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authoirty for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID 075 shall only be fired on pipeline quality natural gas.

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.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following
:
(a) the supporting calculations on a monthly basis for the NOx emissions from Source ID 075 to verify compliance with the NOx emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(b) the supporting calculations on a monthly basis for the CO emissions from Source ID 075 to verify compliance with the CO emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(c) the supporting calculations on a monthly basis for the SOx emissions from Source ID 075 to verify compliance with the SOx emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(d) the supporting calculations on a monthly basis for the total particulate matter (PM) emissions from Source ID 075 to verify compliance with the total PM emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(e) the supporting calculations on a monthly basis for the VOC emissions from Source ID 075 to verify compliance with the VOC emissions limitations of pounds per million Btu, pounds per hour, and tons in any 12 consecutive month period.

(f) the number of hours each month and the cooresponding 12 consecutive month totals Source ID 075 has been operated.

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

 # 008 [25 Pa. Code §129.115]

Written notification, compliance demonstration and recordkeeping and reporting requirements

Beginning with the compliance date specified in § 129.112(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable VOC emission rate threshold specified in § 129.114(c) and the requirements of § 129.112 based on the air contamination source's potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.

The records shall be retained by the owner or operator for 5 years and made available to the Department or appropriate approved local air pollution control agency upon receipt of a written request from the Department or appropriate approved local air pollution control agency.

SECTION D. Source Level Requirements

 # 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units

Reporting and recordkeeping requirements.

The permittee shall keep records of the amount of natural gas combusted in Source ID 075 on a daily basis.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

 # 010 [25 Pa. Code §129.112]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule

Source ID 075 shall be maintained and operated in accordance with the manufacturer's specifications and with good operating practices.

VII. ADDITIONAL REQUIREMENTS.

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 075 is a 15.0 MMBTU/hr Sigma Thermal model WB-10.6-246-4.0-80 natural gas fired fuel pre-heater.

 # 012 [25 Pa. Code §129.111]

Applicability

Sections 129.112—129.114 do not apply to the owner and operator a VOC air contamination source that has the potential to emit less than 1 TPY of VOC located at a major VOC emitting facility subject to subsection (a) or (b). The owner or operator shall identify and list these sources in the written notification required under § 129.115(a).

 # 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.40c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units

Applicability and delegation of authority.

Source ID 075 is subject to the New Source Performance Standards, 40 CFR Part 60, Subpart Dc and shall comply with all applicable requirements as specified in 40 CFR Sections 60.40c through 60.48c.

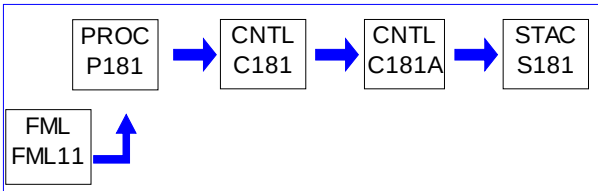
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: P181 Source Name: SIEMENS F5EE CCGT #1 AND DUCT BURNER

Source Capacity/Throughput: 2,585.100 MMBTU/HR

Conditions for this source occur in the following groups: TURBINES



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The carbon monoxiden emissions (CO) from Source ID P181 shall not exceed 1.9 ppm corrected to 15% oxygen. Additionally, the CO emissions shall not exceed 10.1 lbs/hr from the turbine when the duct burners are not operating and 10.9 lbs/hr when the duct burners are operating.These limits do not apply during periods of startup and shutdown.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12]

The volatile organic compound (VOC) emissions from Source ID P181 shall not exceed the following rates when the duct burners are not in operation: 1.0 ppm corrected to 15% oxygen and 3.0 lbs/hr. Additionally the VOC emissions from Source ID P181/P182/P183 shall not exceed 1.6 ppmvd corrected to 15% oxygen and 5.01 lbs/hr. These limits do not apply during periods of startup and shutdown.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with this plan approval condition assures compliance with the provisions specified in 25 Pa. Code Section 123.13]

(a) the total particulate matter (PM) emissions shall not exceed 0.0064 lbs/MMBTU at all times.

(b) the PM10 emissions shall not exceed 0.0064 lbs/MMBTU at all times.

(c) the PM2.5 emissions shall not exceed 0.0064 lbs/MMBTU at all times.

(d) These limits do not apply during periods of startup and shutdown.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The ammonia slip from the SCR associated with Source ID P181 shall not exceed 5 ppmv and 74.02 tons in any 12 consecutive month period.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

SECTION D. Source Level Requirements

The formaldehyde emissions from Source ID P181 shall not exceed 0.325 lbs/hr and 1.39 tons in any 12 CMP.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and the RACT III requirement129.114(d)][Compliance with this operating permit condition assures compliance with the provisions specified in 40 CFR Part 60 Subpart KKKK Section 60.4320]

The nitrogen oxides emissions (NOx) from Source ID P181 shall not exceed 2 ppm corrected to 15% oxygen at all times. Additionally, the NOx emissions shall not exceed 17.4 lbs/hr from Source ID P181 when the duct burners are not operating and 18.4 lbs/hr when the duct burners are operating. These limits do not apply during periods of startup and shutdown.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Compliance with this streamlined operating permit condition assures compliance with the requirements of 25 Pa. Code Section 123.41][Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of visible air contaminants into the outdoor atmosphere in such a manner that the opacity of the emission from the exhaust of Source ID P181 shall not exceed either of the following:

(1) Equal to or greater than 10% for a period or periods aggregating more than six minutes in any 1 hour.

(2) Equal to or greater than 20% at any time.

 # 008 [25 Pa. Code §129.112]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule

The VOC emissions from Source ID P181 shall not exceed 2.0 ppmvd (as propane) 15% O2 at all times of operation, including periods of startup, shutdown and malfunction.

 # 009 [25 Pa. Code §129.114]

Alternative RACT proposal and petition for alternative compliance schedule

The NOx emissions from Source ID P181 shall not exceed 6.1 ppmvd 15% O2, on a rolling 30-day average, at all times of operation, including periods of startup, shutdown and malfunction.

Fuel Restriction(s).

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Compliance with this opearting permit condition assures compliance with the provisions specified in 40 CFR Part 60 Subpart KKKK Section 60.4330][Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID P183 shall only be fired on pipeline quality natural gas.

Operation Hours Restriction(s).

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The duct burners associated with Source ID P181 shall not be operated in excess of 5,000 hours in any 12 consecutive month period (CMP).

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.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall continuously monitor the inlet temperature and the pressure differential across the selective catalytic reduction catalyst associated with Source ID P181.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

An oxygen monitor shall be located in the stack of Source ID P181 to monitor oxygen levels and utilized to ensure maximum combustion efficiency.

 # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The pressure differential across the oxidation catalyst as well as the catalyst inlet and outlet temperatures associated with Source ID P181 shall be monitored and recorded on a continuous basis (1-hour average). Visual and audible alarms shall be utilized to indicate improper operation. The pressure differential and temperature ranges will be established based upon the recorded data and the stack testing. In addition to these operating parameters, the CO emissions from the CEMS will be used as an indicator for VOC emission compliance based upon the recorded data and the stack testing.

IV. RECORDKEEPING REQUIREMENTS.

 # 015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is derived from 25 Pa. Code Section 129.115]

(a) The permittee shall keep accurate and comprehensive records of the following information:

(1) A copy of the stack test reports for any testing performed on Source ID P181 .

(b) The permittee shall keep accurate and comprehensive records of the following information on a monthly basis for Source ID P181:

(1) The calculations of air contaminant emissions (including emission calculations during start-up, and shut-down) from Source ID P181 to verify compliance with nitrogen oxides, carbon monoxide, sulfur oxides, volatile organic compounds, formaldehyde, carbon dioxide equivalent, sulfuric acid, total HAPs, and particulate matter including total particulate matter including particulate matter having a nominal aerodynamic diameter less than 10 microns, particulate matter having a nominal aerodynamic diameter less than 2.5 microns, and condensable particulate matter (PM/PM10/PM2.5/condensable) emissions limitations in any 12 consecutive month period.

(2) The amount of fuel used in Source ID P181.

(3) The number of start-ups and shut-downs performed on Source ID P181 and the dates each occurs.

(4) The type of each start-up (i.e. cold, warm, or hot).

SECTION D. Source Level Requirements

(5) The length of time of each start-up and shut-down (in minutes).

(6) Hours of operation.

(7) Actual heat input (in million Btu).

(8) Actual power output (in megawatts).

(c) The permittee shall keep accurate and comprehensive records on a continuous basis of the following information:

(1) The inlet temperature and the pressure differential across the selective catalytic reduction (SCR) catalyst (ID C181).

(2) The inlet temperature and the pressure differential across the oxidation catalyst (ID C181A).

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

V. REPORTING REQUIREMENTS.

 # 016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit the monthly records of emissions and hours of operation for Source ID P181 on a semi-annual basis to demonstrate compliance with any 12 consecutive month period of emissions and hours of operations limitations for Source ID P181. The semi-annual records shall contain the above information in any 12 consecutive month period. The semi-annual reports shall be submitted no later than March1 and September 1 of every year for the previous 12 consecutive month period.

VI. WORK PRACTICE REQUIREMENTS.

 # 017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

High efficiency inlet air filters shall be used in the air inlet section of Source ID P181.

VII. ADDITIONAL REQUIREMENTS.

 # 018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P181 is a Siemens 5000F5ee DLN natural-gas-fired CTs with STs equipped with natural-gas-fired DBs and HRSGs. The maximum heat input rating of each CT is 2381 MMBtu/hr (HHV) and 2145 MMBtu/hr (LHV). Each DB will have a maximum heat input rating of 204.1 MMBtu/hr (HHV).

 # 019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12 and 129.114]

Source ID P181 shall be equipped with dry lo-NOx combustors.

 # 020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and and the RACT III requirement of 129.114]

The air contaminant emissions from Source ID P181 shall be controlled by a selective catalytic reduction (SCR) unit and an oxidation catalyst.

SECTION D. Source Level Requirements

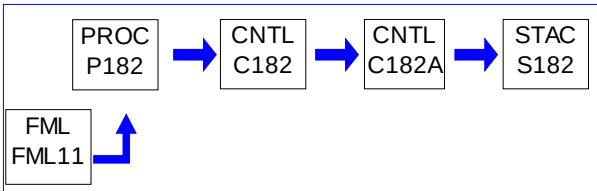
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: P182 Source Name: SIEMENS F5EE CCGT #2 AND DUCT BURNER

Source Capacity/Throughput: 2,585.100 MMBTU/HR

Conditions for this source occur in the following groups: TURBINES



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The carbon monoxiden emissions (CO) from Source ID P182 shall not exceed 1.9 ppm corrected to 15% oxygen. Additionally, the CO emissions shall not exceed 10.1 lbs/hr from the turbine when the duct burners are not operating and 10.9 lbs/hr when the duct burners are operating.These limits do not apply during periods of startup and shutdown.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12]

The volatile organic compound (VOC) emissions from Source ID P182 shall not exceed the following rates when the duct burners are not in operation: 1.0 ppm corrected to 15% oxygen and 3.0 lbs/hr. Additionally the VOC emissions from Source ID P181/P182/P183 shall not exceed 1.6 ppmvd corrected to 15% oxygen and 5.01 lbs/hr. These limits do not apply during periods of startup and shutdown.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with this plan approval condition assures compliance with the provisions specified in 25 Pa. Code Section 123.13]

(a) the total particulate matter (PM) emissions shall not exceed 0.0064 lbs/MMBTU at all times.

(b) the PM10 emissions shall not exceed 0.0064 lbs/MMBTU at all times.

(c) the PM2.5 emissions shall not exceed 0.0064 lbs/MMBTU at all times.

(d) These limits do not apply during periods of startup and shutdown.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The ammonia slip from the SCR associated with Source ID P182 shall not exceed 5 ppmv and 74.02 tons in any 12 consecutive month period.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

SECTION D. Source Level Requirements

The formaldehyde emissions from Source ID P182 shall not exceed 0.325 lbs/hr and 1.39 tons in any 12 CMP.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and the RACT III requirement129.114(d)][Compliance with this operating permit condition assures compliance with the provisions specified in 40 CFR Part 60 Subpart KKKK Section 60.4320]

The nitrogen oxides emissions (NOx) from Source ID P182 shall not exceed 2 ppm corrected to 15% oxygen at all times. Additionally, the NOx emissions shall not exceed 17.4 lbs/hr from Source ID P181 when the duct burners are not operating and 18.4 lbs/hr when the duct burners are operating. These limits do not apply during periods of startup and shutdown.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Compliance with this streamlined operating permit condition assures compliance with the requirements of 25 Pa. Code Section 123.41][Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of visible air contaminants into the outdoor atmosphere in such a manner that the opacity of the emission from the exhaust of Source ID P182 shall not exceed either of the following:

(1) Equal to or greater than 10% for a period or periods aggregating more than six minutes in any 1 hour.

(2) Equal to or greater than 20% at any time.

 # 008 [25 Pa. Code §129.112]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule

The VOC emissions from Source ID P182 shall not exceed 2.0 ppmvd (as propane) 15% O2 at all times of operation, including periods of startup, shutdown and malfunction.

 # 009 [25 Pa. Code §129.114]

Alternative RACT proposal and petition for alternative compliance schedule

The NOx emissions from Source ID P182 shall not exceed 6.1 ppmvd 15% O2, on a rolling 30-day average, at all times of operation, including periods of startup, shutdown and malfunction.

Fuel Restriction(s).

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Compliance with this opearting permit condition assures compliance with the provisions specified in 40 CFR Part 60 Subpart KKKK Section 60.4330][Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID P182 shall only be fired on pipeline quality natural gas.

Operation Hours Restriction(s).

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The duct burners associated with Source ID P182 shall not be operated in excess of 5,000 hours in any 12 consecutive month period (CMP).

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.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall continuously monitor the inlet temperature and the pressure differential across the selective catalytic reduction catalyst associated with Source ID P182.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

An oxygen monitor shall be located in the stack of Source ID P182 to monitor oxygen levels and utilized to ensure maximum combustion efficiency.

 # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The pressure differential across the oxidation catalyst as well as the catalyst inlet and outlet temperatures associated with Source ID P182 shall be monitored and recorded on a continuous basis (1-hour average). Visual and audible alarms shall be utilized to indicate improper operation. The pressure differential and temperature ranges will be established based upon the recorded data and the stack testing. In addition to these operating parameters, the CO emissions from the CEMS will be used as an indicator for VOC emission compliance based upon the recorded data and the stack testing.

IV. RECORDKEEPING REQUIREMENTS.

 # 015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is derived from 25 Pa. Code Section 129.115]

(a) The permittee shall keep accurate and comprehensive records of the following information:

(1) A copy of the stack test reports for any testing performed on Source ID P183 .

(b) The permittee shall keep accurate and comprehensive records of the following information on a monthly basis for Source ID P182:

(1) The calculations of air contaminant emissions (including emission calculations during start-up, and shut-down) from Source ID P182 to verify compliance with nitrogen oxides, carbon monoxide, sulfur oxides, volatile organic compounds, formaldehyde, carbon dioxide equivalent, sulfuric acid, total HAPs, and particulate matter including total particulate matter including particulate matter having a nominal aerodynamic diameter less than 10 microns, particulate matter having a nominal aerodynamic diameter less than 2.5 microns, and condensable particulate matter (PM/PM10/PM2.5/condensable) emissions limitations in any 12 consecutive month period.

(2) The amount of fuel used in Source ID P182.

(3) The number of start-ups and shut-downs performed on Source ID P182 and the dates each occurs.

(4) The type of each start-up (i.e. cold, warm, or hot).

SECTION D. Source Level Requirements

(5) The length of time of each start-up and shut-down (in minutes).

(6) Hours of operation.

(7) Actual heat input (in million Btu).

(8) Actual power output (in megawatts).

(c) The permittee shall keep accurate and comprehensive records on a continuous basis of the following information:

(1) The inlet temperature and the pressure differential across the selective catalytic reduction (SCR) catalyst (ID C182).

(2) The inlet temperature and the pressure differential across the oxidation catalyst (ID C182A).

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

V. REPORTING REQUIREMENTS.

 # 016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit the monthly records of emissions and hours of operation for Source ID P182 on a semi-annual basis to demonstrate compliance with any 12 consecutive month period of emissions and hours of operations limitations for Source ID P182. The semi-annual records shall contain the above information in any 12 consecutive month period. The semi-annual reports shall be submitted no later than March1 and September 1 of every year for the previous 12 consecutive month period.

VI. WORK PRACTICE REQUIREMENTS.

 # 017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

High efficiency inlet air filters shall be used in the air inlet section of Source ID P182.

VII. ADDITIONAL REQUIREMENTS.

 # 018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P182 is a Siemens 5000F5ee DLN natural-gas-fired CTs with STs equipped with natural-gas-fired DBs and HRSGs. The maximum heat input rating of each CT is 2381 MMBtu/hr (HHV) and 2145 MMBtu/hr (LHV). Each DB will have a maximum heat input rating of 204.1 MMBtu/hr (HHV).

 # 019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.114]

Source ID P182 shall be equipped with dry lo-NOx combustors.

 # 020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and and the RACT III requirement of 129.114]

The air contaminant emissions from Source ID P182 shall be controlled by a selective catalytic reduction (SCR) unit and an oxidation catalyst.

SECTION D. Source Level Requirements

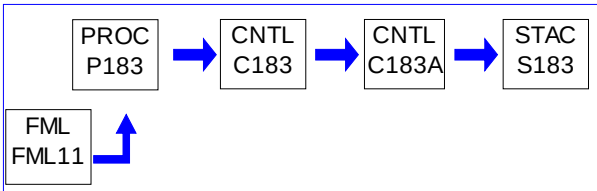
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: P183 Source Name: SIEMENS F5EE CCGT #3 AND DUCT BURNER

Source Capacity/Throughput: 2,585.100 MMBTU/HR

Conditions for this source occur in the following groups: TURBINES



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The carbon monoxide emissions (CO) from Source ID P183 shall not exceed 1.9 ppm corrected to 15% oxygen. Additionally, the CO emissions shall not exceed 10.1 lbs/hr from the turbine when the duct burners are not operating and 10.9 lbs/hr when the duct burners are operating.These limits do not apply during periods of startup and shutdown.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12]

The volatile organic compound (VOC) emissions from Source ID P183 shall not exceed the following rates when the duct burners are not in operation: 1.0 ppm corrected to 15% oxygen and 3.0 lbs/hr. Additionally the VOC emissions from Source ID P181/P182/P183 shall not exceed 1.6 ppmvd corrected to 15% oxygen and 5.01 lbs/hr. These limits do not apply during periods of startup and shutdown.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with this plan approval condition assures compliance with the provisions specified in 25 Pa. Code Section 123.13]

a) the total particulate matter (PM) emissions shall not exceed 0.0064 lbs/MMBTU at all times.

(b) the PM10 emissions shall not exceed 0.0064 lbs/MMBTU at all times.

(c) the PM2.5 emissions shall not exceed 0.0064 lbs/MMBTU at all times.

(d) These limits do not apply during periods of startup and shutdown.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The ammonia slip from the SCR associated with Source ID P183 shall not exceed 5 ppmv and 74.02 tons in any 12 consecutive month period.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

SECTION D. Source Level Requirements

The formaldehyde emissions from Source ID P183 shall not exceed 0.325 lbs/hr and 1.39 tons in any 12 CMP.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and the RACT III requirement129.114(d)][Compliance with this operating permit condition assures compliance with the provisions specified in 40 CFR Part 60 Subpart KKKK Section 60.4320]

The nitrogen oxides emissions (NOx) from Source ID P183 shall not exceed 2 ppm corrected to 15% oxygen at all times. Additionally, the NOx emissions shall not exceed 17.4 lbs/hr from Source ID P181 when the duct burners are not operating and 18.4 lbs/hr when the duct burners are operating. These limits do not apply during periods of startup and shutdown.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Compliance with this streamlined operating permit condition assures compliance with the requirements of 25 Pa. Code Section 123.41][Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of visible air contaminants into the outdoor atmosphere in such a manner that the opacity of the emission from the exhaust of Source ID P183 shall not exceed either of the following:

(1) Equal to or greater than 10% for a period or periods aggregating more than six minutes in any 1 hour.

(2) Equal to or greater than 20% at any time.

 # 008 [25 Pa. Code §129.112]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule

The VOC emissions from Source ID P183 shall not exceed 2.0 ppmvd (as propane) 15% O2 at all times of operation, including periods of startup, shutdown and malfunction.

 # 009 [25 Pa. Code §129.114]

Alternative RACT proposal and petition for alternative compliance schedule

The NOx emissions from Source ID P183 shall not exceed 6.1 ppmvd 15% O2, on a rolling 30-day average, at all times of operation, including periods of startup, shutdown and malfunction.

Fuel Restriction(s).

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Compliance with this opearting permit condition assures compliance with the provisions specified in 40 CFR Part 60 Subpart KKKK Section 60.4330][Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID P183 shall only be fired on pipeline quality natural gas.

Operation Hours Restriction(s).

 # 011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The duct burners associated with Source ID P183 shall not be operated in excess of 5,000 hours in any 12 consecutive month period (CMP).

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.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall continuously monitor the inlet temperature and the pressure differential across the selective catalytic reduction catalyst associated with Source ID P183.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

An oxygen monitor shall be located in the stack of Source ID P183 to monitor oxygen levels and utilized to ensure maximum combustion efficiency.

 # 014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The pressure differential across the oxidation catalyst as well as the catalyst inlet and outlet temperatures associated with Source ID P183 shall be monitored and recorded on a continuous basis (1-hour average). Visual and audible alarms shall be utilized to indicate improper operation. The pressure differential and temperature ranges will be established based upon the recorded data and the stack testing. In addition to these operating parameters, the CO emissions from the CEMS will be used as an indicator for VOC emission compliance based upon the recorded data and the stack testing.

IV. RECORDKEEPING REQUIREMENTS.

 # 015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additiional authority for this opearting permit condition is also derived from 25 Pa. Code Section 129.115]

(a) The permittee shall keep accurate and comprehensive records of the following information:

(1) A copy of the stack test reports for any testing performed on Source ID P183 .

(b) The permittee shall keep accurate and comprehensive records of the following information on a monthly basis for Source ID P183:

(1) The calculations of air contaminant emissions (including emission calculations during start-up, and shut-down) from Source ID P183 to verify compliance with nitrogen oxides, carbon monoxide, sulfur oxides, volatile organic compounds, formaldehyde, carbon dioxide equivalent, sulfuric acid, total HAPs, and particulate matter including total particulate matter including particulate matter having a nominal aerodynamic diameter less than 10 microns, particulate matter having a nominal aerodynamic diameter less than 2.5 microns, and condensable particulate matter (PM/PM10/PM2.5/condensable) emissions limitations in any 12 consecutive month period.

(2) The amount of fuel used in Source ID P183.

(3) The number of start-ups and shut-downs performed on Source ID P183 and the dates each occurs.

(4) The type of each start-up (i.e. cold, warm, or hot).

SECTION D. Source Level Requirements

(5) The length of time of each start-up and shut-down (in minutes).

(6) Hours of operation.

(7) Actual heat input (in million Btu).

(8) Actual power output (in megawatts).

(c) The permittee shall keep accurate and comprehensive records on a continuous basis of the following information:

(1) The inlet temperature and the pressure differential across the selective catalytic reduction (SCR) catalyst (ID C183).

(2) The inlet temperature and the pressure differential across the oxidation catalyst (ID C183A).

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

V. REPORTING REQUIREMENTS.

 # 016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit the monthly records of emissions and hours of operation for Source ID P183 on a semi-annual basis to demonstrate compliance with any 12 consecutive month period of emissions and hours of operations limitations for Source ID P183. The semi-annual records shall contain the above information in any 12 consecutive month period. The semi-annual reports shall be submitted no later than March1 and September 1 of every year for the previous 12 consecutive month period.

VI. WORK PRACTICE REQUIREMENTS.

 # 017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

High efficiency inlet air filters shall be used in the air inlet section of Source ID P181.

VII. ADDITIONAL REQUIREMENTS.

 # 018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P183 is a Siemens 5000F5ee DLN natural-gas-fired CTs with STs equipped with natural-gas-fired DBs and HRSGs. The maximum heat input rating of each CT is 2381 MMBtu/hr (HHV) and 2145 MMBtu/hr (LHV). Each DB will have a maximum heat input rating of 204.1 MMBtu/hr (HHV).

 # 019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and 129.114]

Source ID P183 shall be equipped with dry lo-NOx combustors.

 # 020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12 and and the RACT III requirement of 129.114]

The air contaminant emissions from Source ID P183 shall be controlled by a selective catalytic reduction (SCR) unit and an oxidation catalyst.

SECTION D. Source Level Requirements

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

SECTION D. Source Level Requirements

Source ID: P301 Source Name: DIESEL FIRE PUMP

Source Capacity/Throughput:

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Compliance with this streamlined operating permit requirement assures compliance with the provisions of 25 Pa. Code Section 123.13 and 40 CFR Part 60 Section 60.4205(c)][Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID P301 shall not have emissions in excess of the following rates:

NOx - 2.20 grams/bhp-hr and 0.40 tons in any 12 consecutive month period.
NOx + NMHC - 4.0 grams/kW-hr
CO - 1.42 grams/bhp-hr and 0.26 tons in any 12 consecutive month period.
VOC - 0.12 grams/bhp-hr and 0.02 tons in any 12 consecutive month period.
PM/PM10/PM2.5 - 0.12 grams/bhp-hr and 0.02 tons in any 12 consecutive month period.

Fuel Restriction(s).

 # 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4207]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject t

[Compliance with this operating pemrit requirement assures compliance with the provisions of 40 CFR Part 80 Section 80.510(c) and 25 Pa. Code Section 123.21]

All diesel fuel fired in this source is subject to the following per-gallon standards:

(1) Sulfur content. 15 ppm maximum.

(2) Cetane index or aromatic content, as follows:

(i) A minimum cetane index of 40; or

(ii) A maximum aromatic content of 35 volume percent.

Operation Hours Restriction(s).

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID P301 shall not be operated in excess of 500 hours in any 12 consecutive month period.

 # 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

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

Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company

SECTION D. Source Level Requirements

associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting standards under §60.4205 but not §60.4204, any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited.

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.

 # 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?

This source shall be equipped with a non-resettable hour meter to track hours of operation of Source ID P301.

IV. RECORDKEEPING REQUIREMENTS.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following:

(a) The amount of hours Source ID P301 is operated each month and the corresponding 12 consecutive month period totals to assure compliance with the operating hour restriction.

(b) Calculations that assure compliance with the emission limits for this source.

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

 # 007 [25 Pa. Code §129.115]

Written notification, compliance demonstration and recordkeeping and reporting requirements

Beginning with the compliance date specified in § 129.112(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable VOC emission rate threshold specified in § 129.114(c) and the requirements of § 129.112 based on the air contamination source's potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.

The records shall be retained by the owner or operator for 5 years and made available to the Department or appropriate approved local air pollution control agency upon receipt of a written request from the Department or appropriate approved local air pollution control agency.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P301 is a Cummins model CFP9EW-F10 diesel fired fire pump engine rated at 251 bhp.

 # 009 [25 Pa. Code §129.111]

Applicability

Sections 129.112—129.114 do not apply to the owner and operator of a NOx air contamination source that has the potential to emit less than 1 TPY of NOx located at a major NOx emitting facility subject to subsection (a) or (b) or a VOC air contamination source that has the potential to emit less than 1 TPY of VOC located at a major VOC emitting facility subject to subsection (a) or (b). The owner or operator shall identify and list these sources in the written notification required under § 129.115(a).

 # 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4200]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Am I subject to this subpart?

Source ID P301 is subject to the requirements of 40 CFR Part 60 Subpart IIII Sections 60.4200 - 60.4219. The permittee shall comply with all applicable requirements of this subpart.

 # 011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6590]

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

What parts of my plant does this subpart cover?

Source ID P301 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 - 63.6675. Pursuant to 40 CFR Part 63 Section 63.6590(c)(1) Compliance with Subpart ZZZZ is demonstrated through compliance with 40 CFR Part 60 Subpart IIII. No additional Subpart ZZZZ requirements apply.

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

SECTION D. Source Level Requirements

Source ID: P302 Source Name: EMERGENCY GENERATOR

Source Capacity/Throughput:

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit requirement is also derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with this streamlined operating permit requirement assures compliance with the provisions of 25 Pa. Code Section 123.13 and 40 CFR Part 60 Section 60.4202(a)(2)]

NOx - 5.45 grams/bhp-hr and 8.05 tons in any 12 consecutive month period.
CO - 0.30 grams/bhp-hr and 0.44 tons in any 12 consecutive month period.
VOC - 0.11 grams/bhp-hr and 0.16 tons in any 12 consecutive month period.
PM/PM10/PM2.5 - 0.03 grams/bhp-hr and 0.01 tons in any 12 consecutive month period.

 # 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal co

[Compliance with this operating requirement assures compliance with the provisions of 40 CFR Part 89 Section 89.113 and 25 Pa Code Section 123.41]

(a) Exhaust opacity from compression-ignition nonroad engines for which this subpart is applicable must not exceed:

(1) 20 percent during the acceleration mode;

(2) 15 percent during the lugging mode; and

(3) 50 percent during the peaks in either the acceleration or lugging modes.

(b) Opacity levels are to be measured and calculated as set forth in 40 CFR part 86, subpart I. Notwithstanding the provisions of 40 CFR part 86, subpart I, two-cylinder nonroad engines may be tested using an exhaust muffler that is representative of exhaust mufflers used with the engines in use.

(c) The following engines are exempt from the requirements of this section:

(1) Single-cylinder engines;

(2) Propulsion marine diesel engines; and

(3) Constant-speed engines.

Fuel Restriction(s).

 # 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4207]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject t

[Compliance with this operating pemrit requirement assures compliance with the provisions of 40 CFR Part 80 Section 80.510(c) and 25 Pa. Code Section 123.21]

SECTION D. Source Level Requirements

All diesel fuel fired in this source is subject to the following per-gallon standards:

(1) Sulfur content. 15 ppm maximum.

(2) Cetane index or aromatic content, as follows:

(i) A minimum cetane index of 40; or

(ii) A maximum aromatic content of 35 volume percent.

Operation Hours Restriction(s).

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit requirement is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID P302 shall not be operated in excess of 500 hours in any 12 consecutive month period.

 # 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

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

Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting standards under §60.4205 but not §60.4204, any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited.

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.

 # 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?

Source ID P302 shall be equipped with a non-resettable hour meter.

IV. RECORDKEEPING REQUIREMENTS.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following:

(a) The amount of hours Source ID P302 is operated each month and the corresponding 12 consecutive month period totals to assure compliance with the operating hour restriction.

(b) Calculations that assure compliance with the emission limits for this source.

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

SECTION D. Source Level Requirements

 # 008 [25 Pa. Code §129.115]

Written notification, compliance demonstration and recordkeeping and reporting requirements

Beginning with the compliance date specified in § 129.112(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable VOC emission rate threshold specified in § 129.114(c) and the requirements of § 129.112 based on the air contamination source's potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.

The records shall be retained by the owner or operator for 5 years and made available to the Department or appropriate approved local air pollution control agency upon receipt of a written request from the Department or appropriate approved local air pollution control agency.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

 # 009 [25 Pa. Code §129.112]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule

Source ID P302 shall be installed, maintained and operated in accordance with the manufacturer's specifications and with good operating practices.

VII. ADDITIONAL REQUIREMENTS.

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P302 is a CAT model 3512C 1500 bhp diesel fired emergency generator.

 # 011 [25 Pa. Code §129.111]

Applicability

Sections 129.112—129.114 do not apply to the owner and operator of a VOC air contamination source that has the potential to emit less than 1 TPY of VOC located at a major VOC emitting facility.

 # 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4200]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Am I subject to this subpart?

This source is subject to the requirements of 40 CFR Part 60 Subpart IIII Sections 60.4200 - 60.4219. The permittee shall comply with all applicable requirements of this subpart.

 # 013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6590]

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

What parts of my plant does this subpart cover?

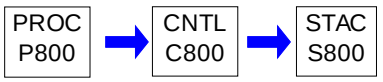
This source is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 - 63.6675. Pursuant to 40 CFR Part 63 Section 63.6590(c)(1) Compliance with Subpart ZZZZ is demonstrated through compliance with 40 CFR Part 60 Subpart IIII. No additional Subpart ZZZZ requirements apply.

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

SECTION D. Source Level Requirements

Source ID: P800 Source Name: COOLING TOWER

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Section 127.1 and 127.12][Compliance with the requirement specified in this streamlined condition assures compliance with the provisions in 25 Pa.Code Section 123.13]

The total particulate matter (including PM10 and PM2.5) emitted from Source ID P800 shall not exceed 2.82 pounds per hour and 12.3 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall take a grab sample of the cooling tower circulating water and analyze it on a weekly basis to determine the total solids content of the cooling tower circulating water.

III. MONITORING REQUIREMENTS.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall continuously monitor the circulating water flow rate in units of gallons per minute and the circulating water's total dissolved solids content via conductivity of Source ID P800. The circulating water flow rate shall be recorded and stored on a computerized system.

IV. RECORDKEEPING REQUIREMENTS.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the weekly grab sample results of the circulating water's total solids content as well as the results of any additional grab samples of the circulating water contained in Source ID P800.

(b) The permittee shall keep records of the supporting calculations to verify compliance with the total particulate matter emission limitations in pounds per hour on a weekly and monthly basis and tons in any 12 consecutive month period. These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations used to verify compliance with total particulate matter emission limitation in any 12 consecutive month period. The semi-annual reports shall be submitted to the Department no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the current year).

SECTION D. Source Level Requirements

VI. WORK PRACTICE REQUIREMENTS.

 # 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Section 127.1 and 127.12]

(a) The circulating water flow rate of Source ID P800 shall not exceed 225,000 gallons per minute at any time.

(b) The total solids concentration of the circulating water in Source ID P800 shall not exceed 5,000 ppm at any time.

(c) These operating parameter requirements may be revised based upon newly available data and manufacturers recommendations for Source ID P800.

VII. ADDITIONAL REQUIREMENTS.

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Section 127.1 and 127.12]

Source ID P800 shall be equipped with a drift eliminator (ID C800).

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Section 127.1 and 127.12]

Control device ID C800 shall achieve a maximum drift rate of 0.0005%.

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P800 is a mechanical-draft 14 cell cooling tower. Additionally, no chromium based water treatment chemicals shall be used in Source ID P800.

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

SECTION E. Source Group Restrictions.

Group Name: TURBINES

Group Description: P181, P182 and P183

Sources included in this group

ID	Name
P181	SIEMENS F5EE CCGT #1 AND DUCT BURNER
P182	SIEMENS F5EE CCGT #2 AND DUCT BURNER
P183	SIEMENS F5EE CCGT #3 AND DUCT BURNER

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The total HAP emissions from Source IDs P181, P182 and P183 combined shall not exceed 5.6 tons in any 12 CMP.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The CO2e emissions from Source IDs P181, P182 and P183 combined shall not exceed 307,810 lb/hr without duct burner operation and 334,677 lb/hr with duct burner operation.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The total emissions from the combined cycle gas turbines combined (Source IDs P181, P182 and P183) shall not exceed the following totals:

- Nitrogen Oxides – 239.89 tons/12 consecutive month period (CMP)
- Carbon Monoxide – 385.54 tons/12 CMP
- Volatile Organic Compounds – 75.79 tons/12 CMP
- Sulfur Oxides – 56.12 tons/12 CMP
- Total Particulate Matter (including PM10 and PM2.5) – 206.41 tons/12 CMP
- Sulfuric Acid Mist – 27.78 tons/12 CMP
- Ammonia – 225.05 tons/12 CMP
- Carbon Dioxide Equivalent – 4,246,126 tons/12 consecutive month period (CMP)

These emissions limits also include emissions encountered during startup and shut down events.

 # 004 [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.

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

SECTION E. Source Group Restrictions.

(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. (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.

SECTION E. Source Group Restrictions.

(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 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 (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.

 # 005 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.506]

Subpart BBBBB - CSAPR NOX Ozone Season Group 1 Trading Program
Standard requirements.

NOX emissions requirements—(1) CSAPR NOX Ozone Season Group 1 emissions limitation. (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NOX Ozone Season Group 1 source and each CSAPR NOX Ozone Season Group 1 unit at the source shall hold, in the source's compliance account, CSAPR NOX Ozone Season Group 1 allowances available for deduction for such control period under §97.524(a) in an amount not less than the tons of total NOX emissions for such control period from all CSAPR NOX Ozone Season Group 1 units at the source.

(ii) If total NOX emissions during a control period in a given year from the CSAPR NOX Ozone Season Group 1 units at a CSAPR NOX Ozone Season Group 1 source are in excess of the CSAPR NOX Ozone Season 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 NOX Ozone Season Group 1 unit at the source shall hold the CSAPR NOX Ozone Season Group 1 allowances required for deduction under §97.524(d); and

(B) The owners and operators of the source and each CSAPR NOX Ozone Season 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 NOX Ozone Season Group 1 assurance provisions. (i) If total NOX emissions during a control period in a given year from all CSAPR NOX Ozone Season Group 1 units at CSAPR NOX Ozone Season 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 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 1 allowances available for deduction for such control period under §97.525(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with §97.525(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

SECTION E. Source Group Restrictions.

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

(B) The amount by which total NOX emissions from all CSAPR NOX Ozone Season Group 1 units at CSAPR NOX Ozone Season 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 NOX Ozone Season Group 1 allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period.

(iii) Total NOX emissions from all CSAPR NOX Ozone Season Group 1 units at CSAPR NOX Ozone Season 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 NOX emissions exceed the sum, for such control period, of the State NOX Ozone Season Group 1 trading budget under §97.510(a) and the State's variability limit under §97.510(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 Ozone Season Group 1 units at CSAPR NOX Ozone Season 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 NOX emissions from the CSAPR NOX Ozone Season Group 1 units at CSAPR NOX Ozone Season 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 NOX Ozone Season 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 NOX Ozone Season 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 NOX Ozone Season 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 May 1, 2015 or the deadline for meeting the unit's monitor certification requirements under §97.530(b) and for each control period thereafter.

(ii) A CSAPR NOX Ozone Season 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 May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under §97.530(b) and for each control period thereafter.

(4) Vintage of CSAPR NOX Ozone Season Group 1 allowances held for compliance. (i) A CSAPR NOX Ozone Season 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 NOX Ozone Season Group 1 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 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) of this section for a control period in a given year must be a CSAPR NOX Ozone Season 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 NOX Ozone Season 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 NOX Ozone Season Group 1 allowance is a limited authorization to emit one ton of NOX during the control period in one year. Such authorization is limited in its use and duration as follows:

SECTION E. Source Group Restrictions.

(i) Such authorization shall only be used in accordance with the CSAPR NOX Ozone Season Group 1 Trading Program; and

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

(7) Property right. A CSAPR NOX Ozone Season Group 1 allowance does not constitute a property right.

 # 006 [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.

SO2 emissions requirements—(1) CSAPR SO2 Group 1 emissions limitation. (i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each 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, 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

SECTION E. Source Group Restrictions.

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 (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

(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.

Operation Hours Restriction(s).

 # 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Additional authority for this operating permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The durations of startups and shutdowns shall be minimized to the extent practicable. Startup and shutdowns shall be defined as follows:

Cold start is identified as a restart occurring 72 hours or more after shutdown and shall not exceed 90 minutes in duration.

Warm start is identified as a restart occurring between 12 hours to 72 hours after shutdown and shall not exceed 75

SECTION E. Source Group Restrictions.

minutes in duration.

Hot start is identified as a restart occurring less than 12 hours after shutdown and shall not exceed 66 minutes duration.

Shut down is the period of time during the reduction in load of the CT for the purposes of shutting down the source and shall not exceed 60 minutes duration.

II. TESTING REQUIREMENTS.

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this operating permit condition is also derived from 25 Pa. Code Section 129.115]

(a) EPA reference method stack testing for volatile organic compounds, sulfur oxides (SO2), sulfuric acid mist, total PM, total PM10, total PM2.5 and formaldehyde shall be conducted every five (5) years from the date of the previous tests.

(b) The permittee shall follow the testing and notification requirements specified in Section C, Site Level Requirements, of this Title V operating permit.

 # 009 [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?

The permittee shall 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.

 # 010 [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 ?

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

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

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

"Equation 5"

(Formula omitted...refer to regulation for exact formula notation).

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

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

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

"Equation 5"

(Formula omitted...refer to regulation for exact formula notation).

SECTION E. Source Group Restrictions.

Where:
E = NOX emission rate, in lb/MWh
1.194 x 10-7 = conversion constant, in lb/dscf-ppm
(NOX)c = average NOX concentration for the run, in ppm
Qstd = stack gas volumetric flow rate, in dscf/hr
P = gross electrical and mechanical energy output of the combustion turbine, in MW (for simple-cycle operation), for combined-cycle operation, the sum of all electrical and mechanical output from the combustion and steam turbines, or, for combined heat and power operation, the sum of all electrical and mechanical output from the combustion and steam turbines plus all useful recovered thermal output not used for additional electric or mechanical generation, in MW, calculated according to §60.4350(f)(2); or

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

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

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

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

(A) [Reserved], or

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

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

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

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

(C) For turbines with a NOX standard less than or equal to 15 ppm @ 15% O2, you may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid if each of the individual traverse point NOX concentrations is within ±2.5 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ±1ppm or ±0.15 percent CO2 (or O2) from the mean for all traverse points.

(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) If the stationary combustion turbine combusts both oil and gas as primary or backup fuels, separate performance testing is required for each fuel.

SECTION E. Source Group Restrictions.

(2) For a combined cycle and CHP turbine systems with supplemental heat (duct burner), you must measure the total NOX emissions after the duct burner rather than directly after the turbine. The duct burner must be in operation during the performance test.

(3) If water or steam injection is used to control NOX with no additional post-combustion NOX control and you choose to monitor the steam or water to fuel ratio in accordance with §60.4335, then that monitoring system must be operated concurrently with each EPA Method 20 or EPA Method 7E run and must be used to determine the fuel consumption and the steam or water to fuel ratio necessary to comply with the applicable §60.4320 NOXemission limit.

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

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

Where:
E = NOX emission rate, in lb/MWh
1.194 x 10-7 = conversion constant, in lb/dscf-ppm
(NOX)c = average NOX concentration for the run, in ppm
Qstd = stack gas volumetric flow rate, in dscf/hr
P = gross electrical and mechanical energy output of the combustion turbine, in MW (for simple-cycle operation), for combined-cycle operation, the sum of all electrical and mechanical output from the combustion and steam turbines, or, for combined heat and power operation, the sum of all electrical and mechanical output from the combustion and steam turbines plus all useful recovered thermal output not used for additional electric or mechanical generation, in MW, calculated according to §60.4350(f)(2); or

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

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

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

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

(A) [Reserved], or

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

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

(A) If each of the individual traverse point NOX concentrations is within ±10 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ±5ppm or ±0.5 percent CO2 (or O2) from the mean for all traverse points, then you may use three points (located either 16.7, 50.0 and 83.3 percent of the way across the stack or duct, or, for circular stacks or ducts greater than 2.4 meters (7.8 feet) in diameter, at 0.4, 1.2, and

SECTION E. Source Group Restrictions.

2.0 meters from the wall). The three points must be located along the measurement line that exhibited the highest average NOX concentration during the stratification test; or

(B) Not Applicable

(C) For turbines with a NOX standard less than or equal to 15 ppm @ 15% O2, you may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid if each of the individual traverse point NOX concentrations is within ±2.5 percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than ±1ppm or ±0.15 percent CO2 (or O2) from the mean for all traverse points.

(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) Not Applicable

(2) For a combined cycle and CHP turbine systems with supplemental heat (duct burner), you must measure the total NOX emissions after the duct burner rather than directly after the turbine. The duct burner must be in operation during the performance test.

(3) Not Applicable

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

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

 # 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4415]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

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

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

(1) If you choose to periodically determine the sulfur content of the fuel combusted in the turbine, a representative fuel sample would be collected following ASTM D5287 (incorporated by reference, see §60.17) for natural gas or ASTM D4177 (incorporated by reference, see §60.17) for oil. Alternatively, for oil, you may follow the procedures for manual pipeline sampling in section 14 of ASTM D4057 (incorporated by reference, see §60.17). The fuel analyses of this section may be performed either by you, a service contractor retained by you, the fuel vendor, or any other qualified agency. Analyze the samples for the total sulfur content of the fuel using:

(i) Not Applicable

(ii) For gaseous fuels, ASTM D1072, or alternatively D3246, D4084, D4468, D4810, D6228, D6667, or Gas Processors Association Standard 2377 (all of which are incorporated by reference, see §60.17).

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

SECTION E. Source Group Restrictions.

"Equation 6"

(Formula omitted...refer to regulation for exact notation).

Where:
E = SO2 emission rate, in lb/MWh
1.664 x 10-7 = conversion constant, in lb/dscf-ppm
(SO2)c = average SO2 concentration for the run, in ppm
Qstd = stack gas volumetric flow rate, in dscf/hr
P = gross electrical and mechanical energy output of the combustion turbine, in MW (for simple-cycle operation), for combined-cycle operation, the sum of all electrical and mechanical output from the combustion and steam turbines, or, for combined heat and power operation, the sum of all electrical and mechanical output from the combustion and steam turbines plus all useful recovered thermal output not used for additional electric or mechanical generation, in MW, calculated according to §60.4350(f)(2); or

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

(b) [Reserved]

III. MONITORING REQUIREMENTS.

 # 012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Compliance with the provisions specified in this streamlined operating permit condition assures compliance with the monitoring requirements specified in 40 CFR Subpart KKKK Section 60.4335, 40 CFR Subpart KKKK Section 60.4345 and 25 Pa. Code Sections 127.1 and 127.12 and 129.115]

(a) The permittee shall certify, maintain and operate continuous emission monitoring systems (CEMS) for nitrogen oxides, carbon monoxide, carbon dioxide, and ammonia emissions on the exhaust of Source IDs P181, P182 and P183 in accordance with all applicable requirements specified in 25 Pa. Code Chapter 139 and the Department's "Continuous Source Monitoring Manual."

(b) The permittee shall implement a carbon dioxide mass emission monitoring system in accordance with the requirements in 40 CFR Section 98.43 and 40 CFR Section 75.13.

 # 013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Compliance with the provisions specified in this streamlined operating permit condition assures compliance with the monitoring requirements specified in 40 CFR Subpart KKKK, Section 60.4335, 40 CFR Subpart KKKK, Section 60.4345 and 25 Pa Code Sections 127.1 and 127.12 and 129.115]

The continuous emission monitoring systems for nitrogen oxides (NOx), ammonia (NH3), carbon monoxide (CO), carbon dioxide (CO2) and oxygen continuous emission monitoring system associated with the turbines (Source IDs P181, P182 and P183) shall be operatiare operated in accordance with with all applicable requirements specified in 25 Pa. Code Chapter 139, as well as with the Department's Continuous Source Monitoring Manual.

 # 014 [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?

The permittee shall Install, certify, maintain, and operate a continuous emission monitoring system (CEMS) consisting of a NOX monitor and a diluent gas (oxygen (O2) or carbon dioxide (CO2)) monitor, to determine the hourly NOX emission rate in parts per million (ppm) or pounds per million British thermal units (lb/MMBtu).

SECTION E. Source Group Restrictions.

 # 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4345]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

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

If the option to use a NOX CEMS is chosen:

(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 75of this chapter.

 # 016 [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?

For purposes of identifying 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 NOX and diluent monitors, the data acquisition and handling system must calculate and record the hourly NOX emission rate in units of ppm or lb/MMBtu, using the appropriate equation from method 19 in appendix A of 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 NOX concentrations to 15 percent O2 is not allowed.

(d) If you have installed and certified a NOX 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 NOX 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:

SECTION E. Source Group Restrictions.

(1) Not Applicable

(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:

"Equation 2"

(Formula omitted...refer to regulation for exact formula notation).

Where:

P = gross energy output of the stationary combustion turbine system in MW.
(Pe)t = electrical or mechanical energy output of the combustion turbine in MW,
(Pe)c = electrical or mechanical energy output (if any) of the steam turbine in MW, and

"Equation 3"

(Formula omitted...refer to regulation for exact formula notation).

Where:

Ps = 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 x 106 = conversion from Btu/h to MW.
Po = other useful heat recovery, measured relative to ISO conditions, not used for steam generation or performance enhancement of the combustion turbine.

(3) Not Applicable

(g) Not Applicable

(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).

 # 017 [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?

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

(a) Not Applicable

(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.

SECTION E. Source Group Restrictions.

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

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

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

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

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

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

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

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

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

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

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

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

(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.

 # 018 [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.

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.

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

SECTION E. Source Group Restrictions.

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.

 # 019 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.506]

Subpart BBBBB - CSAPR NOX Ozone Season Group 1 Trading Program

Standard requirements.

Emissions monitoring, reporting, and recordkeeping requirements. (1) The owners and operators, and the designated representative, of each CSAPR NOX Ozone Season Group 1 source and each CSAPR NOX Ozone Season Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.530 through 97.535.

The emissions data determined in accordance with §§97.530 through 97.535 shall be used to calculate allocations of CSAPR NOX Ozone Season Group 1 allowances under §§97.511(a)(2) and (b) and 97.512 and to determine compliance with the CSAPR NOX Ozone Season 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 §§97.530 through 97.535 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

 # 020 [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.

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.

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.

IV. RECORDKEEPING REQUIREMENTS.

 # 021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the type (cold/warm/hot) and duration of each start-up and shut down for each turbine. The permittee shall also explain the reason for the startup/shutdown event. Additionally, the permittee shall perform and keep records of emissions calculations including the total emissions for each pollutant from each instance of startup and shutdown. These records shall be retained for a minimum of five years and shall be presented to the Department upon request.

 # 022 [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.

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.

SECTION E. Source Group Restrictions.

(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 Annual Trading Program.

 # 023 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.506]

Subpart BBBBB - CSAPR NOX Ozone Season Group 1 Trading Program

Standard requirements.

Additional recordkeeping and reporting requirements. (1) Unless otherwise provided, the owners and operators of each CSAPR NOX Ozone Season Group 1 source and each CSAPR NOX Ozone Season 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 §97.516 for the designated representative for the source and each CSAPR NOX Ozone Season 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 §97.516 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 1 Trading Program.

 # 024 [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.

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.

V. REPORTING REQUIREMENTS.

 # 025 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4375]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What reports must I submit?

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

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

SECTION E. Source Group Restrictions.

of the performance test.

 # 026 [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 ?

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) Not Applicable

(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) Not Applicable

 # 027 [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?

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

 # 028 [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.

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.

 # 029 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.506]

Subpart BBBBB - CSAPR NOX Ozone Season Group 1 Trading Program

Standard requirements.

The designated representative of a CSAPR NOX Ozone Season Group 1 source and each CSAPR NOX Ozone Season Group 1 unit at the source shall make all submissions required under the CSAPR NOX Ozone Season Group 1 Trading Program, except as provided in §97.518. 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.

SECTION E. Source Group Restrictions.

 # 030 [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.

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.

VI. WORK PRACTICE REQUIREMENTS.

 # 031 [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?

The permittee shall comply with the work practicce standards of 40 CFR Part 60 Section 60.4333.

VII. ADDITIONAL REQUIREMENTS.

 # 032 [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?

Source IDs P181, P182 and P183 are subject to the requirements of 40 CFR Part 60 Subpart KKKK Sections 60.4300 - 4420, Standards of Performance for Stationary Combustion Turbines, . The permittee shall comply with all applicable requirements of this subpart.

 # 033 [40 CFR Part 72 Regulations on Permits §40 CFR 72.1]
Subpart A--Acid Rain Program General Provisions
Purpose and scope.

The permittee shall comply with the Title IV Acid Rain Program 40 CFR Parts 72-78.

 # 034 [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.

(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.

 # 035 [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.

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.

 # 036 [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.

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

SECTION E. Source Group Restrictions.

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.

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.

 # 037 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.506]
Subpart BBBBB - CSAPR NOX Ozone Season Group 1 Trading Program
Standard requirements.

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 §§97.513 through 97.518.

 # 038 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.506]
Subpart BBBBB - CSAPR NOX Ozone Season Group 1 Trading Program
Standard requirements.

Liability

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

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

Effect on other authorities

No provision of the CSAPR NOX Ozone Season Group 1 Trading Program or exemption under §97.505 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NOX Ozone Season Group 1 source or CSAPR NOX Ozone Season 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.

 # 039 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.506]
Subpart BBBBB - CSAPR NOX Ozone Season Group 1 Trading Program
Standard requirements.

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 1 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 §§97.530 through 97.535 may be added to, or changed in, a Title V permit using minor permit modification procedures in accordance with §§70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter.

SECTION E. Source Group Restrictions.

 # 040 [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.

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.

 # 041 [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.

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.

 # 042 [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.

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.

Effect on other authorities

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.

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

SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.

SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.

SECTION H. Miscellaneous.

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