



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: January 30, 2013 Effective Date: July 30, 2013
Revision Date: July 30, 2013 Expiration Date: January 30, 2018
Revision Type: Modification, Significant

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

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

TITLE V Permit No: 26-00535

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

Owner Information

Name: DUKE ENERGY FAYETTE II LLC
Mailing Address: PO BOX 511
100 ENERGY DR
MASONTOWN, PA 15461-0511

Plant Information

Plant: DUKE ENERGY FAYETTE II LLC/FAYETTE ENERGY CTR
Location: 26 Fayette County 26918 German Township
SIC Code: 4911 Trans. & Utilities - Electric Services

Responsible Official

Name: WILLIAM DAY
Title: PROD MGR
Phone: (724) 583 - 8003

Permit Contact Person

Name: WILLIAM DAY
Title: PROD MGR
Phone: (724) 583 - 8003

[Signature]
MARK A. WAYNER, SOUTHWEST REGION AIR PROGRAM MANAGER



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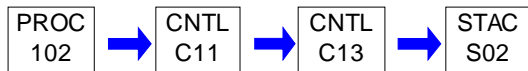
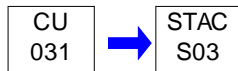
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Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	AUXILIARY BOILER	30.600	MMBTU/HR
101	CGT TRAIN 1 COMBINED CYCLE TURBINE	2,343.000	MMBTU/HR
102	CGT TRAIN 2 COMBINED CYCLE TURBINE	2,343.000	MMBTU/HR
104	DIESEL EMERGENCY FIREWATER PUMP ENGINE(265 BHP)		
105	DIESEL EMERGENCY GENERATOR ENGINE (489 BHP)		
106	CONDENSER COOLING TOWER		
C10	SCR UNIT 1		
C11	SCR UNIT 2		
C12	OXIDATION CATALYST UNIT 1		
C13	OXIDATION CATALYST UNIT 2		
S01	CGT STACK 1		
S02	CGT STACK 2		
S03	AUXILIARY BOILER STACK		

**PERMIT MAPS**

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

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

**#002 [25 Pa. Code § 127.512(c)(4)]****Property Rights**

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

**#003 [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.

**#004 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e) & 127.503]****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.

(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.

**#005 [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 the Department.

**SECTION B. General Title V Requirements**

(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.

**#006 [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.

**#007 [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.

**#008 [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****#009 [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.

**#010 [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.

**#011 [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.

**#012 [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.

**SECTION B. General Title V Requirements****#013 [25 Pa. Code §§ 121.1 & 127.462]****Minor Operating Permit Modifications**

- (a) The permittee may make minor operating permit modifications (as defined in 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.
- (b) 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 an operational flexibility change authorized by 25 Pa. Code § 127.462.

**#014 [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), according to procedures specified in § 127.450. Administrative amendments are not authorized for any amendment precluded by the Clean Air Act or the regulations thereunder from being processed as an administrative amendment.
- (b) Upon taking final action granting a request for an administrative permit amendment in accordance with § 127.450(c), the Department will allow coverage under 25 Pa. Code § 127.516 (relating to permit shield) for administrative permit amendments which meet the relevant requirements of 25 Pa. Code Article III, unless precluded by the Clean Air Act or the regulations thereunder.

**#015 [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.

**#016 [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).
- (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.
- (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 administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.
- (f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).



**SECTION B. General Title V Requirements****#017 [25 Pa. Code §§ 127.14(b) & 127.449]****Authorization for De Minimis Emission Increases**

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

- (1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.
- (2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

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

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

- (1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.
- (2) One ton of NO<sub>x</sub> from a single source during the term of the permit and 5 tons of NO<sub>x</sub> 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 PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> 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.
- (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

**SECTION B. General Title V Requirements**

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) applies to de minimis emission increases and the installation of minor sources made pursuant to this permit condition.

(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.

**#018 [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).

**#019 [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 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.

**SECTION B. General Title V Requirements****#020 [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:

Office of Air Enforcement and Compliance Assistance (3AP20)  
United States Environmental Protection Agency  
Region 3  
1650 Arch Street  
Philadelphia, PA 19103-2029

(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.

**#021 [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.

**#022 [25 Pa. Code §§ 127.511 & Chapter 135]****Recordkeeping Requirements**

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

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

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

**SECTION B. General Title V Requirements**

(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.

**#023 [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 #020(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.

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

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

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

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department and EPA in accordance with the submission requirements specified in condition #020 of this section.

**#025 [25 Pa. Code § 127.3]****Operational Flexibility**

(a) 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:

**SECTION B. General Title V Requirements**

- (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)

(b) Unless precluded by the Clean Air Act or the regulations adopted thereunder, the permit shield authorized under 25 Pa. Code § 127.516 shall extend to operational flexibility changes made at this Title V facility pursuant to this permit condition and other applicable operational flexibility terms and conditions of this permit.

**#026 [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.

(e) If the Title V facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation

**SECTION B. General Title V Requirements**

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 Condition #24 of Section B of this Title V 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).

**#027 [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.

**#028 [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 on minor or significant permit modifications, and operational flexibility changes shall be covered by the permit shield. Upon taking final action granting a request for an administrative permit amendment, the Department will allow coverage of the amendment by the permit shield in § 127.516 for administrative amendments which meet the relevant requirements of 25 Pa. Code Article III.

(d) The permit shield authorized under § 127.516 is in effect for the permit terms and conditions in this Title V permit, including administrative operating permit amendments and minor operating permit modifications.

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

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

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

In accordance with 25 Pa. Code, §§ 123.1-2, there shall be no fugitive emissions from this facility except those that arise from the use of roads. All reasonable actions shall be taken to minimize fugitive emissions that arise from use of roads. Reasonable actions shall include, but shall not be limited to paving, sweeping, and application of water or other dust suppressants. In no case shall fugitive emissions arising from the use of roads be permitted to cross the property line.

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

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

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

In accordance with 25 Pa. Code, § 123.31, owner/operator shall not permit the emission of any malodorous air contaminants from any source in such a manner that the malodors, as determined by the Department, are detectable outside the owner/operator's property.

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

Total emissions from the Fayette Energy Facility shall not exceed the following, in any consecutive 12-month period:

NO<sub>x</sub> - 296 tons, expressed as NO<sub>2</sub>  
 CO - 581 tons  
 SO<sub>x</sub> - 128 tons, expressed as SO<sub>2</sub>  
 VOC - 90 tons, expressed as methane  
 PM<sub>10</sub> - 313 tons  
 Formaldehyde - 9.6 tons  
 Ammonia - 166 tons

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

The opacity of the exhaust from all sources at this facility shall not exceed 10% for a period or periods aggregating more than three minutes in any 1 hour. If required, opacity shall be measured using EPA Reference Method 9, found at 40 CFR 60, Appendix A, with the exception that reduction of results of observations shall be performed in accordance with the methodology prescribed by the Department.

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

(a) In air basins. – Not Applicable.

(b) Outside of air basins. No person may permit the open burning of material in an area outside of air basins in a manner that:

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

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

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

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

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

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

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

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

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

(4) - (5) Not applicable.

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

(7) A fire set solely for cooking food.

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

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

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

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

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

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

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

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

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

(3) Not applicable.

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

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

**II. TESTING REQUIREMENTS.**

**# 008 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

If, at any time, the Department has cause to believe that air contaminant emissions from the facility covered by this



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operating permit are in excess of the limitations specified in, or established pursuant to, any applicable regulation, the Department shall require the permittee to conduct tests deemed necessary to demonstrate compliance. The permittee shall perform such testing in accordance with the applicable provisions of 25 Pa. Code Chapter 139 (relating to sampling and testing) and in accordance with any restrictions or limitations established by the Department at the time the permittee is notified in writing, of the testing requirement.

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

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

**# 010 [25 Pa. Code §139.3]****General requirements.**

(a) Pursuant to 25 Pa. Code § 139.3, at least 45 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval. Guidance pertaining to the material content of the test protocol can be found in 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 appropriate Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

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

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

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

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

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

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

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

(f) Pursuant to 25 Pa. Code § 139.3, all submittals shall conform with the most current version of the Department's Source Testing Manual.

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

(h) Pursuant to 25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3), all submittals, besides notifications, shall be accomplished through PSIMS\*Online available through <https://www.depgreenport.state.pa.us/ecomm/Login.jsp> when it becomes available. If internet submittal can not be accomplished, three copies of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, Bureau of Air Quality, Division of Source Testing and Monitoring, 400

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Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468 with deadlines verified through document postmarks.

(i) 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.

**III. MONITORING REQUIREMENTS.****# 011 [25 Pa. Code §123.51]****Monitoring requirements**

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

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

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

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

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

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

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

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

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

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

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

**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

**SECTION C. Site Level Requirements****# 014 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

## I. Monitoring Requirements

## A. Continuous Emission Monitoring Requirements

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

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

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

Both CEMSs will record monitoring data under the following criteria:

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

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

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

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

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

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

Additionally, a separate report called the CGT Startup/Shutdown Emission Monitoring Report shall be compiled and submitted to the Pa. DEP, SWRO, Air Quality Program on a quarterly basis. This report shall list emissions describing each startup and shutdown of each CGT.

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

Pollutant	Units	Moist.	% O2	Sub	Violation	Standard	Averaging Period	Variable
During Cold Startup								
NOx	lbs/hr as NO2	NA	NA	No	>	400 lbs/hour	Average over each startup	NO
During Warm Startup								
NOx	lbs/hr as NO2	NA	NA	No	>	164 lbs/hour	Average over each startup	NO

During Hot Startup

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NOx	lbs/hr as NO2	NA	NA	No	>	196 lbs/hour	Average over each startup	NO
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During Shutdown

NOx	lbs/hr as NO2	NA	NA	No	>	100 lbs/hour	Average over each startup	NO
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Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

**II. Work Practice Standards****1. Both CEMS #1 & CEMS #2****a. Data Availability Standard # 1**

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

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

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

or,

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

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

NOx (ppm), NOx (lbs/hr)

**III. Certification and Testing Requirements****A. Application for Modification of Monitoring Plan:**

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

**IV. Recordkeeping Requirements:**

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

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

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

**V. Reporting Requirements:**

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

The permittee shall submit quarterly reports of continuous emission monitoring to the Department in accordance with the

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requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), and, the "Record Keeping and Reporting" requirements as established in Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001. The permittee shall report emissions for all periods of unit operation, including startup, shutdown and malfunction.

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

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

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

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

#### VI. Quality Assurance Requirements

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

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

#### VII. General Requirements (Section B requirements)

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

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

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

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

#### # 015 [25 Pa. Code §135.4]

##### Report format

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

- 1) Information on the source and emissions in accordance with the appropriate reporting format approved by the Department.
- 2) The results of all performance test, audits and recalibrations conducted during the quarter. The report signed by the

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responsible official shall be submitted in duplicate to the Division of Source Testing and Monitoring, Continuous Monitoring Section at the following address, within thirty (30) days following the end of each quarter:

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

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

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

**# 016 [25 Pa. Code §139.101]****General requirements.**

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

**(A) MAINTENANCE:**

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

**(B) PERIODIC CALIBRATION:**

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

**# 017 [25 Pa. Code §139.101]****General requirements.**

- (a) At least once in every four calendar quarters in which the source operates for 168 hours or more, or within 720 source operating hours after the close of such four quarters, the permittee shall conduct a System Performance Audit in accordance with the relative accuracy test audit procedures listed in the Department's Continuous Source Monitoring Manual.
- (b) When eight consecutive calendar quarters elapse after the last System Performance Audit, a System Performance Audit must be conducted within 720 source-operating hours.
- (c) Notification of System Performance Audit testing must be provided to the Department's Source Testing and Monitoring,

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Continuous Emission Monitoring Section at least 21 days prior to testing.

(d) Departmental approval must be obtained prior to the testing.

(e) A periodic self-audit conducted for purposes of meeting the requirements of the Department's Continuous Source Monitoring Manual may not be conducted within 6 months of the previous successful periodic self-audit on the same existing, previously approved monitoring system to which no changes have been made.

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

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

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

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

The owner/operator shall keep monthly records of operational hours and fuel usage for each source at this facility. These records shall be used to calculate emissions for the sources at this facility, and shall be used to determine compliance with annual emission limitations. The records and calculations shall be kept on site for a period of 5 years and be made available to the Department upon request.

**# 020 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

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

- (1) Submittal of reports of required monitoring at least every 6 months. Instances of deviations from permit requirements

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shall be clearly identified in the reports. Required reports shall be certified by a responsible official.

(2) Reporting of deviations from permit requirements within the time required by the terms and conditions of the permit including those attributable to upset conditions as defined in the permit, the probable cause of the deviations and corrective actions or preventive measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source.

**# 021 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

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

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

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

**# 022 [25 Pa. Code §135.5]****Recordkeeping**

Source owners or operators shall maintain and make available upon request by the Department records including computerized records that may be necessary to comply with 135.21 (relating to reporting; and emission statements). These may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

**V. REPORTING REQUIREMENTS.****# 023 [25 Pa. Code §127.442]****Reporting requirements.**

(a) The owner or operator shall report each malfunction that occurs at this facility that poses an imminent and substantial danger to the public health and safety or the environment or which it should reasonably believe may result in citizen complaints to the Department. For purpose of this condition a malfunction is defined as any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment or source to operate in a normal or usual manner that may result in an increase in the emission of air contaminants. Examples of malfunctions that may result in citizen complaints include but are not limited to: large dust plumes, heavy smoke, a spill or release that results in a malodor that is detectable outside the property of the person on whose land the source is being operated.

(b) When the malfunction poses an imminent and substantial danger to the public health and safety or the environment, the notification shall be submitted to the Department no later than one hour after the incident. All other malfunctions that must be reported under subsection (a) shall be reported to the Department no later than the next business day.

(c) The report shall describe the:

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

(d) The owner or operator shall notify the Department immediately when corrective measures have been accomplished.

(e) Subsequent to the malfunction, the owner/operator shall submit a full written report to the Department including the items identified in (c) and corrective measures taken on the malfunction within 15 days, if requested.



**SECTION C. Site Level Requirements**

(f) The owner/operator shall submit reports on the operation and maintenance of the source to the Regional Air Program Manager at such intervals and in such form and detail as may be required by the Department. Information required in the reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and maintenance schedules.

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

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

**# 024 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

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

**# 025 [25 Pa. Code §127.513]****Compliance certification.**

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

**# 026 [25 Pa. Code §135.21]****Emission statements**

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

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

**# 027 [25 Pa. Code §135.3]****Reporting**

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

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

**# 028 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]****Subpart A - General Provisions  
Address.**

This facility is subject to 40 CFR Part 60, Subpart Da-Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978, 40 CFR 60, Subpart Dc - Standards of Performance for

**SECTION C. Site Level Requirements**

Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60, Subpart GG—Standards of Performance for Stationary Gas Turbines, and 40 CFR 63, Subpart JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources, and shall comply with all applicable requirements of Subpart. 40 CFR § 60.4 and 40 CFR § 63.13, which require submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department at the following addresses:

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

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

**VI. WORK PRACTICE REQUIREMENTS.****# 029 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

**# 030 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

**VII. ADDITIONAL REQUIREMENTS.****# 031 [25 Pa. Code §123.42]****Exceptions**

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

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

**# 032 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

- 40 CFR Part 75 Continuous Emission Monitoring
- 40 CFR Part 76 Nitrogen Oxides Emission Reduction Program

**SECTION C. Site Level Requirements****# 033 [25 Pa. Code §139.102]****References.**

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

(1) "Standards of Performance for New Stationary Sources," 40 CFR Chapter I, Subchapter C, Part 60, Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402-9328.

(2) "Minimum Emission Monitoring Requirements," 40 CFR Subchapter C, Part 51, Appendix P, Superintendent of Documents, U. S. Government Printing Office, Washington, D.C. 20402-9328.

(3) "Continuous Source Monitoring Manual," Commonwealth of Pennsylvania, Department of Environmental Resources, Bureau of Air Quality Control, Post Office Box 8468, Harrisburg, Pennsylvania 17105-8468.

**VIII. COMPLIANCE CERTIFICATION.**

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

**IX. COMPLIANCE SCHEDULE.**

No compliance milestones exist.

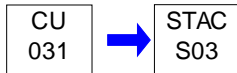
**\*\*\* Permit Shield In Effect \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: AUXILIARY BOILER

Source Capacity/Throughput: 30.600 MMBTU/HR

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

Total emissions from the Auxiliary Boiler (Source ID 031) shall not exceed 4.7 tons of NO<sub>x</sub>, expressed as NO<sub>2</sub>, 14.6 tons of CO, 2.1 tons of VOC, expressed as methane, 0.13 tons of oxides of sulfur, expressed as SO<sub>2</sub>, or 1.3 tons of PM<sub>10</sub>, during any consecutive 12-month period.

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

Emissions from the Auxiliary Boiler (Source ID 031) shall not exceed 1.1 pounds of NO<sub>x</sub>, expressed as NO<sub>2</sub>, 3.3 pounds of CO, 0.49 pounds of VOC, expressed as methane, 0.03 pounds of oxides of sulfur, expressed as SO<sub>2</sub>, or 0.31 pounds of PM<sub>10</sub>, during any hour.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

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

The Auxiliary boiler, for the purposes of 40 CFR Part 60, Subpart Dc, is a new, natural gas-fired steam generating unit with a

**SECTION D. Source Level Requirements**

maximum heat input greater than 30 MMBtu per hour and less than 100 MMBtu per hour.

**# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.41c]**

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

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

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

**# 005 [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.**

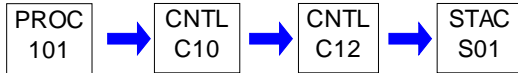
The owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO<sub>2</sub> standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

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

**SECTION D. Source Level Requirements**

Source ID: 101                      Source Name: CGT TRAIN 1 COMBINED CYCLE TURBINE  
 Source Capacity/Throughput:    2,343.000    MMBTU/HR

Conditions for this source occur in the following groups: G01

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

Emission rates from Combustion Gas Turbine System CGT1 (Source ID 101) shall be no greater than 400 pounds NO<sub>x</sub>, expressed as NO<sub>2</sub>, per hour, 1,700 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Cold Start.

Emission rates from CGT1 shall be no greater than 161 pounds NO<sub>x</sub>, expressed as NO<sub>2</sub>, per hour, 1,200 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Warm Start.

Emission rates from CGT1 shall be no greater than 190 pounds NO<sub>x</sub>, expressed as NO<sub>2</sub>, per hour, 1,200 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Hot Start.

Emission rates from CGT1 shall be no greater than 100 pounds NO<sub>x</sub>, expressed as NO<sub>2</sub>, per hour, 700 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Shutdown.

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

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

NO<sub>x</sub> - 2.5 ppmvd @15% O<sub>2</sub> and 21.6 pounds per hour, expressed as NO<sub>2</sub>  
 CO - 3.0 ppmvd @15% O<sub>2</sub> and 15.7 pounds per hour  
 SO<sub>x</sub> - 1.2 ppmvd @15% O<sub>2</sub> and 14.5 pounds per hour, expressed as SO<sub>2</sub>  
 VOC - 3.3 ppmvd @15% O<sub>2</sub> and 10.0 pounds per hour, expressed as methane  
 PM<sub>10</sub> - 34.8 pounds per hour  
 NH<sub>3</sub> - 5.9 ppmvd @15% O<sub>2</sub> and 18.9 pounds per hour  
 Formaldehyde - 1.1 pounds per hour

The hourly emission limits established in this Condition do not apply during periods of Startup, Shutdown, routine maintenance, and turbine tuning. For purposes of this condition, a Startup shall be considered either a Cold Start (turbine previously down for more than 72 hours, startup duration greater than 3.0 hours and not exceeding 4.2 hours), a Warm Start (turbine previously down between 8 and 72 hours, startup duration greater than 1.5 hours and not exceeding 3.0 hours), or a Hot Start. (turbine previously down less than 8 hours, startup duration greater than 0 hours and not exceeding 1.5 hour)

Turbine tuning is testing to modify operational parameter values to minimize emissions and combustion hardware stress levels during operation. Tuning is performed periodically and when combustion hardware components are changed.

**II. TESTING REQUIREMENTS.**

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



## SECTION D. Source Level Requirements

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

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

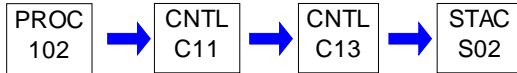
**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: CGT TRAIN 2 COMBINED CYCLE TURBINE

Source Capacity/Throughput: 2,343.000 MMBTU/HR

Conditions for this source occur in the following groups: G01

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

Emission rates from Combustion Gas Turbine System CGT2 (Source ID 102) shall be no greater than 400 pounds NO<sub>x</sub>, expressed as NO<sub>2</sub>, per hour, 1,700 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Cold Start.

Emission rates from CGT2 shall be no greater than 161 pounds NO<sub>x</sub>, expressed as NO<sub>2</sub>, per hour, 1,200 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Warm Start.

Emission rates from CGT2 shall be no greater than 190 pounds NO<sub>x</sub>, expressed as NO<sub>2</sub>, per hour, 1,200 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Hot Start.

Emission rates from CGT2 shall be no greater than 100 pounds NO<sub>x</sub>, expressed as NO<sub>2</sub>, per hour, 700 pounds CO per hour, and 30 pounds VOC, expressed as methane, per hour, during each Shutdown.

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

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

NO<sub>x</sub> - 2.5 ppmvd @15% O<sub>2</sub> and 21.6 pounds per hour, expressed as NO<sub>2</sub>  
 CO - 3.0 ppmvd @15% O<sub>2</sub> and 15.7 pounds per hour  
 SO<sub>x</sub> - 1.2 ppmvd @15% O<sub>2</sub> and 14.5 pounds per hour, expressed as SO<sub>2</sub>  
 VOC - 3.3 ppmvd @15% O<sub>2</sub> and 10.0 pounds per hour, expressed as methane  
 PM<sub>10</sub> - 34.8 pounds per hour  
 NH<sub>3</sub> - 5.9 ppmvd @15% O<sub>2</sub> and 18.9 pounds per hour  
 Formaldehyde - 1.1 pounds per hour

The hourly emission limits established in this Condition do not apply during periods of Startup, Shutdown, routine maintenance, and turbine tuning. For purposes of this condition, a Startup shall be considered either a Cold Start (turbine previously down for more than 72 hours, startup duration greater than 3.0 hours and not exceeding 4.2 hours), a Warm Start (turbine previously down between 8 and 72 hours, startup duration greater than 1.5 hours and not exceeding 3.0 hours), or a Hot Start. (turbine previously down less than 8 hours, startup duration greater than 0 hours and not exceeding 1.5 hour)

Turbine tuning is testing to modify operational parameter values to minimize emissions and combustion hardware stress levels during operation. Tuning is performed periodically and when combustion hardware components are changed.

**II. TESTING REQUIREMENTS.**

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





## SECTION D. Source Level Requirements

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION D. Source Level Requirements**

Source ID: 104

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

Source Capacity/Throughput:

Conditions for this source occur in the following groups: G02

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

Total emissions from the Fire Pump Engine (Source ID 104) shall not exceed 1.55 tons of NO<sub>x</sub>, expressed as NO<sub>2</sub>, 0.33 tons of CO, 0.13 tons of VOC, expressed as methane, 0.10 tons of oxides of sulfur, expressed as SO<sub>2</sub>, or 0.11 tons of PM<sub>10</sub>, during any consecutive 12-month period.

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

Total emissions from the Fire Pump Engine (Source ID 104) shall not exceed 6.20 pounds of NO<sub>x</sub>, expressed as NO<sub>2</sub>, 1.32 pounds of CO, 0.52 pounds of VOC, expressed as methane, 0.40 pounds of oxides of sulfur, expressed as SO<sub>2</sub>, or 0.44 pounds of PM<sub>10</sub>, during any hour.

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

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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



## SECTION D. Source Level Requirements

### VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION D. Source Level Requirements**

Source ID: 105

Source Name: DIESEL EMERGENCY GENERATOR ENGINE (489 BHP)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: G02

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

Total emissions from the Diesel Generator Engine (Source ID 105) shall not exceed 3.1 tons of NO<sub>x</sub>, expressed as NO<sub>2</sub>, 3.8 tons of CO, 0.44 tons of VOC, expressed as methane, 1.0 tons of oxides of sulfur, expressed as SO<sub>2</sub>, or 0.18 tons of PM<sub>10</sub>, during any consecutive 12-month period.

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

Total emissions from the Diesel Generator Engine (Source ID 105) shall not exceed 12.40 pounds of NO<sub>x</sub>, expressed as NO<sub>2</sub>, 15.2 pounds of CO, 1.76 pounds of VOC, expressed as methane, 4.00 pounds of oxides of sulfur, expressed as SO<sub>2</sub>, or 0.72 pounds of PM<sub>10</sub>, during any hour.

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

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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



## SECTION D. Source Level Requirements

### VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION D. Source Level Requirements**

Source ID: 106

Source Name: CONDENSER COOLING TOWER

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

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

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

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

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

**SECTION E. Source Group Restrictions.**

Group Name: G01

Group Description: Combustion Gas Turbine Systems CGT1 &amp; CGT2

Sources included in this group

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

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

Total emissions from the sum of Combustion Gas Turbine 1 (Source ID 101) and Combustion Gas Turbine 2 (Source ID 102) shall not exceed 286.7 tons of NOx, expressed as NO2, 562.3 tons of CO, 87.3 tons of VOC, expressed as methane, 126.7 tons of oxides of sulfur, expressed as SO2, 309.8 tons of PM10, 9.6 tons of formaldehyde, or 166 tons of ammonia, during any consecutive 12-month period.

**II. TESTING REQUIREMENTS.****# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Compliance with the turbine emission limitations for CO, VOC, PM10, NH3, and formaldehyde shall be demonstrated through performance stack testing on each turbine. Performance testing shall also be conducted to demonstrate compliance with the turbine emission limitations for NOx and SO2. The continuous emission monitoring systems shall be used during performance testing for NOx. Fuel analysis for sulfur may be used to determine compliance with the turbine emission limitation of SO2.

A. All stack testing shall be performed in accordance with 40 CFR §§ 60.8 and 60.335, Title 25 Pa. Code Chapter 139 regulations, and the most recent version of the Department's current Source Testing Manual. Stack testing for PM10 shall be conducted by EPA Test Method 201A for the filterable portion and EPA Test Method 202 for condensable particulate matter or Agency approved equivalents. Since almost all of the filterable particulate from the gas turbines is expected to have a diameter smaller than 2.5 micrometers, EPA Test Method 5 may be used in lieu of EPA Test Method 201A. Stack testing for carbon monoxide shall be conducted by EPA Test Method 10 or Agency approved equivalent. Stack testing for NOx shall be conducted by EPA Test Method 7E or Agency approved equivalent.

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

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

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

**# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.335]****Subpart GG - Standards of Performance for Stationary Gas Turbines****Test methods and procedures.**

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

(1) EPA Method 20,

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

(3) EPA Method 7E and either EPA Method 3 or 3A in appendix A to this part, to determine NOx and diluent concentration.

(4) Sampling traverse points are to be selected following Method 20 or Method 1, (non-particulate procedures) and sampled for equal time intervals. The sampling shall be performed with a traversing single-hole probe or, if feasible, with a

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stationary multi-hole probe that samples each of the points sequentially. Alternatively, a multi-hole probe designed and documented to sample equal volumes from each hole may be used to sample simultaneously at the required points.

(5) Notwithstanding paragraph (a)(4) of this section, the owner or operator may test at fewer points than are specified in Method 1 or Method 20 if the following conditions are met:

(i) You may perform a stratification test for NO<sub>x</sub> and diluent pursuant to

(A) [Reserved]

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

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

(A) If each of the individual traverse point NO<sub>x</sub> concentrations, normalized to 15 percent O<sub>2</sub>, is within ±10 percent of the mean normalized concentration for all traverse points, then you may use 3 points (located either 16.7, 50.0, and 83.3 percent of the way across the stack or duct, or, for circular stacks or ducts greater than 2.4 meters (7.8 feet) in diameter, at 0.4, 1.2, and 2.0 meters from the wall). The 3 points shall be located along the measurement line that exhibited the highest average normalized NO<sub>x</sub> concentration during the stratification test; or

(B) If each of the individual traverse point NO<sub>x</sub> concentrations, normalized to 15 percent O<sub>2</sub>, is within ±5 percent of the mean normalized concentration for all traverse points, then you may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid.

(6) Other acceptable alternative reference methods and procedures are given in paragraph (c) of this section.

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

(1) For each run of the performance test, the mean nitrogen oxides emission concentration (NO<sub>xo</sub>) corrected to 15 percent O<sub>2</sub> shall be corrected to ISO standard conditions using the following equation. Notwithstanding this requirement, use of the ISO correction equation is optional for: Lean premix stationary combustion turbines; units used in association with heat recovery steam generators (HRSG) equipped with duct burners; and units equipped with add-on emission control devices:

$$NO_x = (NO_{xo}) * ((Pr/Po)^{0.5}) * (e^{19}) * (Ho - 0.00633) * ((288^\circ K / Ta)^{1.53})$$

Where:

NO<sub>x</sub> = emission concentration of NO<sub>x</sub> at 15 percent O<sub>2</sub> and ISO standard ambient conditions, ppm by volume, dry basis,

NO<sub>xo</sub> = mean observed NO<sub>x</sub> concentration, ppm by volume, dry basis, at 15 percent O<sub>2</sub>,

Pr = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg,

Po = observed combustor inlet absolute pressure at test, mm Hg,

Ho = observed humidity of ambient air, g H<sub>2</sub>O/g air,

e = transcendental constant, 2.718, and

Ta = ambient temperature, °K.

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



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

(3) For a combined cycle turbine system with supplemental heat (duct burner), the owner or operator may elect to measure the turbine NO<sub>x</sub> emissions after the duct burner rather than directly after the turbine. If the owner or operator elects to use this alternative sampling location, the applicable NO<sub>x</sub> emission limit in §60.332 for the combustion turbine must still be met.

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

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

(6) If the owner or operator elects to install a CEMS, the performance evaluation of the CEMS may either be conducted separately (as described in paragraph (b)(7) of this section) or as part of the initial performance test of the affected unit.

(7) If the owner or operator elects to install and certify a NO<sub>x</sub> CEMS under §60.334(e), then the initial performance test required under §60.8 may be done in the following alternative manner:

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

(ii) Use the test data both to demonstrate compliance with the applicable NO<sub>x</sub> emission limit under §60.332 and to provide the required reference method data for the RATA of the CEMS described under §60.334(b).

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

(8) If the owner or operator elects under §60.334(f) to monitor combustion parameters or parameters indicative of proper operation of NO<sub>x</sub> emission controls, the appropriate parameters shall be continuously monitored and recorded during each run of the initial performance test, to establish acceptable operating ranges, for purposes of the parameter monitoring plan for the affected unit, as specified in §60.334(g).

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

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

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

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

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

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

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(with verification of the dilution ratio) may be used, subject to the prior approval of the Administrator.

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

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

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

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

(a) The permittee shall verify compliance with the SO<sub>2</sub> limitations of this Operating Permit through one of the following:

(1) Annual fuel sampling and analysis, or

(2) FERC tariff sheets or purchase contracts which show that the fuel is composed of at least 70 percent methane by volume or has a gross calorific value between 950 and 1100 Btu per standard cubic foot.

(b) Data and information required to determine compliance with this section shall be maintained for five years.

(c) Alternative methods for demonstration of compliance under subsection (a) must have prior written approval.

**# 005 [25 Pa. Code §139.1]****Sampling facilities.**

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

Nitrogen Oxide emissions (as NO<sub>2</sub>)  
% Oxygen or Carbon Dioxide  
Fuel Flow Monitor

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

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

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Turbines CGT1 and CGT2 shall be equipped with dry low NO<sub>x</sub> combustors and turbine exhaust gases shall be treated with selective catalytic reduction (SCR) for NO<sub>x</sub> control, and oxidation catalyst (OC) for VOC and CO control.

**VII. ADDITIONAL REQUIREMENTS.****# 008 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

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

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

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

a) Monitoring Requirements

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

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

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

b) Recordkeeping Requirements

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

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

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

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

c) Reporting Requirements

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

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

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

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

**SECTION E. Source Group Restrictions.****# 009 [25 Pa. Code §145.204.]****Incorporation of Federal regulations by reference.**

- (a) Except as otherwise specified in this subchapter, the provisions of the CAIR NOx Annual Trading Program, found in 40 CFR Part 96 (relating to NOx budget trading program and CAIR NOx and SO2 trading programs for State implementation plans), including all appendices, future amendments and supplements thereto, are incorporated by reference.
- (b) Except as otherwise specified in this subchapter, the provisions of the CAIR SO2 Trading Program, found in 40 CFR Part 96, including all appendices, future amendments and supplements thereto, are incorporated by reference.
- (c) Except as otherwise specified in this subchapter, the provisions of the CAIR NOx Ozone Season Trading Program, found in 40 CFR Part 96, including all appendices, future amendments and supplements thereto, are incorporated by reference.
- (d) In the event of a conflict between Federal regulatory provisions incorporated by reference in this subchapter and Pennsylvania regulatory provisions, the provision expressly set out in this subchapter shall be followed unless the Federal provision is more stringent. Federal regulations that are cited in this subchapter or that are cross-referenced in the Federal regulations incorporated by reference include any Pennsylvania modifications made to those Federal regulations.

**# 010 [25 Pa. Code §145.205.]****Emission reduction credit provisions.**

The following conditions shall be satisfied in order for the Department to issue a permit or plan approval to the owner or operator of a unit not subject to this subchapter that is relying on emission reduction credits (ERCs) or creditable emission reductions in an applicability determination under Chapter 127, Subchapter E (relating to new source review), or is seeking to enter into an emissions trade authorized under Chapter 127 (relating to construction, modification, reactivation and operation of sources), if the ERCs or creditable emission reductions were, or will be, generated by a unit subject to this subchapter.

(1) Prior to issuing the permit or plan approval, the Department will permanently reduce the Commonwealth's CAIR NOx trading budget or CAIR NOx Ozone Season trading budget, or both, as applicable, beginning with the sixth control period following the date the plan approval or permit to commence operations or increase emissions is issued. The Department will permanently reduce the applicable CAIR NOx budgets by an amount of allowances equal to the ERCs or creditable emission reductions relied upon in the applicability determination for the non-CAIR unit subject to Chapter 127, Subchapter E or in the amount equal to the emissions trade authorized under Chapter 127, as if these emissions had already been emitted.

(2) The permit or plan approval must prohibit the owner or operator from commencing operation or increasing emissions until the owner or operator of the CAIR unit generating the ERC or creditable emission reduction surrenders to the Department an amount of allowances equal to the ERCs or emission reduction credits relied upon in the applicability determination for the non-CAIR unit under Chapter 127, Subchapter E or the amount equal to the ERC trade authorized under Chapter 127, for each of the five consecutive control periods following the date the non-CAIR unit commences operation or increases emissions. The allowances surrendered must be of present or past vintage years.

**# 011 [25 Pa. Code §145.212.]****CAIR NOx allowance allocations.**

- (a) Provisions not incorporated by reference. The requirements of 40 CFR 96.142 (relating to CAIR NOx allowance allocations) are not incorporated by reference. Instead of 40 CFR 96.142, the requirements set forth in this section apply.
- (b) Baseline heat input. Baseline heat input for each CAIR NOx unit will be converted as follows:
- (1) A unit's control period heat input and a unit's status as coal-fired or oil-fired for a calendar year under this paragraph will be determined in one of the following two ways:
- (i) In accordance with 40 CFR Part 75 (relating to continuous emission monitoring), to the extent that the unit was otherwise subject to 40 CFR Part 75 for the year.
- (ii) Based on the best available data reported to the Department for the unit, to the extent the unit was not otherwise subject to the requirements of 40 CFR Part 75 for the year.
- (2) Except as provided in subparagraphs (iv) and (v), a unit's converted control period heat input for a calendar year shall

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be determined as follows:

- (i) The control period gross electrical output of the generators served by the unit multiplied by 7,900 Btu/kWh if the unit is coal-fired for the year, and divided by 1,000,000 Btu/mmBtu.
  - (ii) The control period gross electrical output of the generators served by the unit multiplied by 6,675 Btu/kWh if the unit is not coal-fired for the year, and divided by 1,000,000 Btu/mmBtu.
  - (iii) If a generator is served by two or more units, the gross electrical output of the generator will be attributed to each unit in proportion to the share of the total control period heat input from each of the units for the year.
  - (iv) For a unit that is a boiler and has equipment used to produce electricity and useful thermal energy for industrial, commercial, heating or cooling purposes through the sequential use of energy, the total heat energy (in Btus) of the steam produced by the boiler during the annual control period, divided by 0.8 and by 1,000,000 Btu/mmBtu.
  - (v) For a unit that is a combustion turbine and has equipment used to produce electricity and useful thermal energy for industrial, commercial, heating or cooling purposes through the sequential use of energy, the annual control period gross electrical output of the enclosed device comprising the compressor, combustor and turbine multiplied by 3,413 Btu/kWh, plus the total heat energy (in Btu) of the steam produced by any associated heat recovery steam generator during the annual control period divided by 0.8, and with the sum divided by 1,000,000 Btu/mmBtu.
  - (vi) Calculations will be based on the best output data available on or before January 31 of the year the allocations are published. If unit level electrical or steam output data are not available from EIA, or submitted by this date by the owner or operator of the CAIR NOx unit, then heat input data for the period multiplied by 0.25 and converted to MWh will be used to determine total output.
- (c) Existing unit, new unit and subsection (f)(1) qualifying resource allocation baseline. For each control period beginning with January 1, 2010, and each year thereafter, the Department will allocate to qualifying resources and CAIR NOx units, including CAIR NOx units issued allowances under subsection (e), a total amount of CAIR NOx allowances equal to the number of CAIR NOx allowances remaining in the Commonwealth's CAIR NOx trading budget under 40 CFR 96.140 (relating to State trading budgets) for those control periods using summed baseline heat input data as determined under subsections (b) and (f)(1) from a baseline year that is 6 calendar years before the control period.
- (d) Proration of allowance allocations. The Department will allocate CAIR NOx allowances to each existing CAIR NOx unit and qualifying resource in an amount determined by multiplying the amount of CAIR NOx allowances in the Commonwealth's CAIR NOx trading budget available for allocation under subsection (c) by the ratio of the baseline heat input of the existing CAIR NOx unit or qualifying resource to the sum of the baseline heat input of existing CAIR NOx units and of the qualifying resources, rounding to the nearest whole allowance as appropriate.
- (e) Allocations to new CAIR NOx units. By March 31, 2011, and March 31 each year thereafter, the Department will allocate CAIR NOx allowances under § 145.211(c) (relating to timing requirements for CAIR NOx allowance allocations) to CAIR NOx units equal to the previous year's emissions at each unit, unless the unit has been issued allowances of the previous year's vintage in a regular allocation under § 145.211(b). The Department will allocate CAIR NOx allowances under this subsection of a vintage year that is 5 years later than the year in which the emissions were generated. The number of CAIR NOx allowances allocated may not exceed the actual emission of the year preceding the year in which the Department makes the allocation. The allocation of these allowances to the new unit will not reduce the number of allowances the unit is entitled to receive under another provision of this subchapter.
- (f) Allocations to qualifying resources and units exempted by Section 405(g)(6)(a) of the Clean Air Act. For each control period beginning with 2010 and thereafter, the Department will allocate CAIR NOx allowances to qualifying resources under paragraph (1) in this Commonwealth that are not also allocated CAIR NOx allowances under another provision of this subchapter and to existing units under paragraph (2) that were exempted at any time under Section 405(g)(6)(a) of the Clean Air Act (42 U.S.C.A. § 7651d(g)(6)(A)), regarding phase II SO<sub>2</sub> requirements, and that commenced operation prior to January 1, 2000, but did not receive an allocation of SO<sub>2</sub> allowances under the EPA's Acid Rain Program, as follows:
- (1) The Department will allocate CAIR NOx allowances to a renewable energy qualifying resource or demand side management energy efficiency qualifying resource in accordance with subsections (c) and (d) upon receipt by the

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Department of an application, in writing, on or before June 30 of the year following the control period, except for vintage year 2011 and 2012 NOx allowance allocations whose application deadline will be prescribed by the Department, meeting the requirements of this paragraph. The number of allowances allocated to the qualifying resource will be determined by converting the certified quantity of electric energy production, useful thermal energy, and energy equivalent value of the measures approved under the Pennsylvania Alternative Energy Portfolio Standard to equivalent thermal energy. Equivalent thermal energy is a unit's baseline heat input for allocation purposes. The conversion rate for converting electrical energy to equivalent thermal energy is 3,413 Btu/kWh. To receive allowances under this subsection, the qualifying resource must have commenced operation after January 1, 2005, must be located in this Commonwealth and may not be a CAIR NOx unit. The following procedures apply:

(i) The owner of a qualifying renewable energy resource shall appoint a CAIR-authorized account representative and file a certificate of representation with the EPA and the Department.

(ii) The Department will transfer the allowances into an account designated by the owner's CAIR-authorized account representative of the qualifying resource, or into an account designated by an aggregator approved by the Pennsylvania Public Utility Commission or its designee.

(iii) The applicant shall provide the Department with the corresponding renewable energy certificate serial numbers.

(iv) At least one whole allowance must be generated per owner, operator or aggregator for an allowance to be issued.

(2) The Department will allocate CAIR NOx allowances to the owner or operator of a CAIR SO2 unit that commenced operation prior to January 1, 2000, that has not received an SO2 allocation for that compliance period, as follows:

(i) By January 31, 2011, and each year thereafter, the owner or operator of a unit may apply, in writing, to the Department under this subsection to receive extra CAIR NOx allowances.

(ii) The owner or operator may request under this subparagraph one CAIR NOx allowance for every 8 tons of SO2 emitted from a qualifying unit during the preceding control period. An owner or operator of a unit covered under this subparagraph that has opted into the Acid Rain Program may request one CAIR NOx allowance for every 8 tons of SO2 emissions that have not been covered by the SO2 allowances received as a result of opting into the Acid Rain Program.

(iii) If the original CAIR NOx allowance allocation for the unit for the control period exceeded the unit's actual emissions of NOx for the control period, the owner or operator shall also deduct the excess CAIR NOx allowances from the unit's request under subparagraph (ii). This amount is the unit's adjusted allocation and will be allocated unless the proration described in subparagraph (iv) applies.

(iv) The Department will make any necessary corrections and then sum the requests. If the total number of NOx allowances requested by all qualified units under this paragraph, as adjusted by subparagraph (iii), is less than 1.3% of the Commonwealth's CAIR NOx Trading Budget, the Department will allocate the corrected amounts. If the total number of NOx allowances requested by all qualified units under this paragraph exceeds 1.3% of the Commonwealth's CAIR NOx Trading Budget, the Department will prorate the allocations based upon the following equation:

$$AA = [EA * X (0.013 * BNA)] / TRA$$

where,

AA is the unit's prorated allocation,

EA is the adjusted allocation the unit may request under subparagraph (iii),

BNA is the total number of CAIR NOx allowances in the Commonwealth's CAIR NOx trading budget,

TRA is the total number of CAIR NOx allowances requested by all units requesting allowances under this paragraph.

(3) The Department will review each CAIR NOx allowance allocation request under this subsection and will allocate CAIR NOx allowances for each control period under a request as follows:

(i) The Department will accept an allowance allocation request only if the request meets, or is adjusted by the Department as necessary to meet, the requirements of this section.

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(ii) On or after January 1 of the year of allocation, the Department will determine the sum of the CAIR NOx allowances requested.

(4) Up to 1.3% of the Commonwealth's CAIR NOx trading budget is available for allocation in each allocation cycle from 2011-2016 to allocate 2010-2015 allowances for the purpose of offsetting SO2 emissions from units described in paragraph (2). Beginning January 1, 2017, and for each allocation cycle thereafter, the units will no longer be allocated CAIR NOx allowances under paragraph (2). Any allowances remaining after this allocation will be allocated to units under subsection (c) during the next allocation cycle.

(5) Notwithstanding the provisions of paragraphs (2)-(4), the Department may extend, terminate or otherwise modify the allocation of NOx allowances made available under this subsection for units exempted under section 405(g)(6)(a) of the Clean Air Act after providing notice in the Pennsylvania Bulletin and at least a 30-day public comment period.

(g) The Department will correct any errors in allocations made by the Department and discovered after final allocations are made but before the next allocation cycle, in the subsequent allocation cycle using future allowances that have not yet been allocated.

**# 012 [25 Pa. Code §145.213.]****Supplemental monitoring, recordkeeping and reporting requirements for gross electrical output and useful thermal energy for units subject to 40 CFR 96.170--96.175.**

(a) By January 1, 2009, or by the date of commencing commercial operation, whichever is later, the owner or operator of the CAIR NOx unit shall install, calibrate, maintain and operate a wattmeter, measure gross electrical output in megawatt-hours on a continuous basis and record the output of the wattmeter. If a generator is served by two or more units, the information to determine the heat input of each unit for that control period shall also be recorded, so as to allow each unit's share of the gross electrical output to be determined. If heat input data are used, the owner or operator shall comply with the applicable provisions of 40 CFR Part 75 (relating to continuous emission monitoring).

(b) By September 1, 2008, for a CAIR NOx unit that is a cogeneration unit, and for a CAIR NOx unit with cogeneration capabilities, the owner or operator shall install, calibrate, maintain and operate meters for steam flow in lbs/hr, temperature in degrees Fahrenheit, and pressure in PSI, to measure and record the useful thermal energy that is produced, in mmBtu/hr, on a continuous basis. The owner or operator of a CAIR NOx unit that produces useful thermal energy but uses an energy transfer medium other than steam, such as hot water or glycol, shall install, calibrate, maintain and operate the necessary meters to measure and record the data necessary to express the useful thermal energy produced, in mmBtu/hr, on a continuous basis. If the unit ceases to produce useful thermal energy, the owner or operator may cease operation of the meters, but operation of the meters shall be resumed if the unit resumes production of useful thermal energy.

(c) Beginning with 2009, the designated representative of the unit shall submit to the Department an annual report showing monthly gross electrical output and monthly useful thermal energy from the unit. The report is due by January 31 for the preceding calendar year.

(d) The owner or operator of a CAIR NOx unit shall maintain onsite the monitoring plan detailing the monitoring system and maintenance of the monitoring system, including quality assurance activities. The owner or operator of a CAIR NOx unit shall retain the monitoring plan for at least 5 years from the date that it is replaced by a new or revised monitoring plan. The owner or operator of a CAIR NOx unit shall provide the Department with a written copy of the monitoring plan by January 1, 2009, and thereafter within 3 calendar months of making updates to the plan.

(e) The owner or operator of a CAIR NOx unit shall retain records for at least 5 years from the date the record is created or the data collected as required by subsections (a) and (b), and the reports submitted to the Department and the EPA in accordance with subsections (c) and (d).

**# 013 [25 Pa. Code §145.222.]****CAIR NOx Ozone Season allowance allocations.**

(a) Provisions not incorporated by reference. The requirements of 40 CFR 96.342 (relating to CAIR NOx Ozone Season allowance allocations) are not incorporated by reference. Instead of 40 CFR 96.342, the requirements in this section apply.

(b) Baseline heat input. Baseline heat input for each CAIR NOx Ozone Season unit will be converted as follows:

(1) A unit's control period heat input and a unit's status as coal-fired or oil-fired for the ozone season portion of a calendar

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year under this paragraph will be determined in one of the following two ways:

(i) In accordance with 40 CFR Part 75 (relating to continuous emission monitoring), to the extent that the unit was otherwise subject to the requirements of 40 CFR Part 75 for the control period.

(ii) Based on the best available data reported to the Department for the unit, to the extent the unit was not otherwise subject to the requirements of 40 CFR Part 75 for the year.

(2) Except as provided in subparagraphs (iv) and (v), a unit's converted control period heat input for the ozone season portion of a calendar year shall be determined as follows:

(i) The control period gross electrical output of the generators served by the unit multiplied by 7,900 Btu/kWh if the unit is coal-fired for the ozone season control period, and divided by 1,000,000 Btu/mmBtu.

(ii) The control period gross electrical output of the generators served by the unit multiplied by 6,675 Btu/kWh if the unit is not coal-fired for the ozone season control period, and divided by 1,000,000 Btu/mmBtu.

(iii) If a generator is served by 2 or more units, the gross electrical output of the generator will be attributed to each unit in proportion to the share of the total control period heat input from each of the units for the ozone season control period.

(iv) For a unit that is a boiler and has equipment used to produce electricity and useful thermal energy for industrial, commercial, heating or cooling purposes through the sequential use of energy, the total heat energy (in Btus) of the steam produced by the boiler during the ozone season control period, divided by 0.8 and by 1,000,000 Btu/mmBtu.

(v) For a unit that is a combustion turbine and has equipment used to produce electricity and useful thermal energy for industrial, commercial, heating or cooling purposes through the sequential use of energy, the control period gross electrical output of the enclosed device comprising the compressor, combustor and turbine multiplied by 3,413 Btu/kWh, plus the total heat energy (in Btu) of the steam produced by any associated heat recovery steam generator during the ozone season control period divided by 0.8, and with the sum divided by 1,000,000 Btu/mmBtu.

(vi) Calculations will be based on the best output data available on or before January 31 of the year the allocations are published. If unit level electrical or steam output data are not available from EIA, or submitted by this date by the owner or operator of the CAIR NOx Ozone Season unit, then heat input data for the period multiplied by 0.25 and converted to MWh will be used to determine total output.

(c) Existing unit, new unit and subsection (f)(1) qualifying resource allocation baseline. For each control period beginning with the 2010 control period and thereafter, the Department will allocate to qualifying resources and CAIR NOx Ozone Season units, including CAIR NOx Ozone Season units issued allowances under subsection (e), a total amount of CAIR NOx Ozone Season allowances equal to the number of CAIR NOx Ozone Season allowances remaining in the Commonwealth's CAIR NOx Ozone Season trading budget under 40 CFR 96.140 (relating to State trading budgets) for those control periods using summed baseline heat input data as determined under subsections (b) and (f)(1) from an ozone season control period in a baseline year that is 6 calendar years before the control period.

(d) Proration of allowance allocations. The Department will allocate CAIR NOx Ozone Season allowances to each existing CAIR NOx Ozone Season unit and qualifying resource in an amount determined by multiplying the amount of CAIR NOx Ozone Season allowances in the Commonwealth's CAIR NOx Ozone Season trading budget available for allocation under subsection (c) by the ratio of the baseline heat input of the existing CAIR NOx Ozone Season unit or qualifying resource to the sums of the baseline heat input of existing CAIR NOx Ozone Season units and of the qualifying resources, rounding to the nearest whole allowance as appropriate.

(e) Allocations to new CAIR NOx Ozone Season units. By March 31, 2011, and March 31 each year thereafter, the Department will allocate CAIR NOx Ozone Season allowances under § 145.221(c) (relating to timing requirements for CAIR NOx Ozone Season allowance allocations) to CAIR NOx Ozone Season units equal to the previous year's emissions at each unit, unless the unit has been issued allowances of the previous year's vintage in a regular allocation under § 145.221(b). The Department will allocate CAIR NOx allowances under this subsection of a vintage year that is 5 years later than the year in which the emissions were generated. The number of CAIR NOx Ozone Season allowances allocated shall not exceed the actual emission of the year preceding the year in which the Department makes the allocation. The allocation



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of these allowances to the new unit will not reduce the number of allowances the unit is entitled to receive under another provision of this subchapter.

(f) Allocations to qualifying resources. For each control period beginning with the 2010 control period, and thereafter, the Department will allocate CAIR NOx Ozone Season allowances to qualifying resources in this Commonwealth that are not also allocated CAIR NOx Ozone Season allowances under another provision of this subchapter, as follows:

(1) The Department will allocate CAIR NOx Ozone Season allowances to a renewable energy qualifying resource or demand side management energy efficiency qualifying resource in accordance with subsections (c) and (d) upon receipt by the Department of an application, in writing, on or before June 30 of the year following the control period, except for vintage year 2011 and 2012 NOx Ozone Season allowance allocations whose application deadline will be prescribed by the Department, meeting the requirements of this paragraph. The number of allowances allocated to the qualifying resource will be determined by converting the certified quantity of electric energy production, useful thermal energy, and energy equivalent value of the measures approved under the Pennsylvania Alternative Energy Portfolio Standard to equivalent thermal energy. Equivalent thermal energy is a unit's baseline heat input for allocation purposes. The conversion rate for converting electrical energy to equivalent thermal energy is 3,413 Btu/kWh. To receive allowances under this subsection, the qualifying resource must have commenced operation after January 1, 2005, must be located in this Commonwealth and may not be a CAIR NOx Ozone Season unit. The following procedures apply:

(i) The owner of a qualifying renewable energy resource shall appoint a CAIR-authorized account representative and file a certificate of representation with the EPA and the Department.

(ii) The Department will transfer the allowances into an account designated by the owner's CAIR-authorized account representative of the qualifying resource, or into an account designated by an aggregator approved by the Pennsylvania Public Utility Commission or its designee.

(iii) The applicant shall provide the Department with the corresponding renewable energy certificate serial numbers.

(iv) At least one whole allowance must be generated per owner, operator or aggregator for an allowance to be issued.

(g) The Department will correct any errors in allocations made by the Department and discovered after final allocations are made but before the next allocation cycle, in the subsequent allocation cycle using future allowances that have not yet been allocated.

**# 014 [25 Pa. Code §145.223.]****Supplemental monitoring, recordkeeping and reporting requirements for gross electrical output and useful thermal energy for units subject to 40 CFR 96.370--96.375.**

(a) By January 1, 2009, or by the date of commencing commercial operation, whichever is later, the owner or operator of the CAIR NOx Ozone Season unit shall install, calibrate, maintain and operate a wattmeter, measure gross electrical output in megawatt-hours on a continuous basis and record the output of the wattmeter. If a generator is served by two or more units, the information to determine the heat input of each unit for that control period shall also be recorded, so as to allow each unit's share of the gross electrical output to be determined. If heat input data are used, the owner or operator shall comply with the applicable provisions of 40 CFR Part 75 (relating to continuous emission monitoring).

(b) By September 1, 2008, for a CAIR NOx Ozone Season unit that is a cogeneration unit, and for a CAIR NOx Ozone Season unit with cogeneration capabilities, the owner or operator shall install, calibrate, maintain and operate meters for steam flow in lbs/hr, temperature in degrees Fahrenheit and pressure in PSI, to measure and record the useful thermal energy that is produced, in mmBtu/hr, on a continuous basis. The owner or operator of a CAIR NOx Ozone Season unit that produces useful thermal energy but uses an energy transfer medium other than steam, such as hot water or glycol, shall install, calibrate, maintain and operate the necessary meters to measure and record the data necessary to express the useful thermal energy produced, in mmBtu/hr, on a continuous basis. If the unit ceases to produce useful thermal energy, the owner or operator may cease operation of the meters, but operation of the meters shall be resumed if the unit resumes production of useful thermal energy.

(c) Beginning with 2009, the designated representative of the unit shall submit to the Department an annual report showing monthly gross electrical output and monthly useful thermal energy from the unit. The report is due by January 31 for the preceding calendar year.

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(d) The owner or operator of a CAIR NOx Ozone Season unit shall maintain onsite the monitoring plan detailing the monitoring system and maintenance of the monitoring system, including quality assurance activities. The owner or operator of a CAIR NOx Ozone Season unit shall retain the monitoring plan for at least 5 years from the date that it is replaced by a new or revised monitoring plan. The owner or operator of a CAIR NOx Ozone Season unit shall provide the Department with a written copy of the monitoring plan by January 1, 2009, and thereafter within 3 calendar months of making updates to the plan.

(e) The owner or operator of a CAIR NOx Ozone Season unit shall retain records for at least 5 years from the date the record is created or the data collected as required by subsections (a) and (b), and the reports submitted to the Department and the EPA in accordance with subsections (c) and (d).

**# 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.330]****Subpart GG - Standards of Performance for Stationary Gas Turbines****Applicability and designation of affected facility.**

The combustion gas turbines are subject to the applicable requirements of the 40 CFR Part 60, Subpart GG - Standards of Performance for Stationary Gas Turbines.

**# 016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.40Da]****Subpart Da - Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978****Applicability and designation of affected facility.**

The heat recovery steam generators are subject to the applicable requirements of 40 CFR 60, Subpart Da - Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978.

**# 017 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.106]****Subpart AA - CAIR NOx Annual Trading Program General Provisions****Standard requirements.**

(a) Permit requirements.

(1) The CAIR designated representative of each CAIR NOx source required to have a Title V operating permit and each CAIR NOx unit required to have a Title V operating permit at the source shall:

(i) Submit to the permitting authority a complete CAIR permit application under Sec. 97.122 in accordance with the deadlines specified in Sec. 97.121; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.

(2) The owners and operators of each CAIR NOx source required to have a Title V operating permit and each CAIR NOx unit required to have a Title V operating permit at the source shall have a CAIR permit issued by the permitting authority under subpart CC of this part for the source and operate the source and the unit in compliance with such CAIR permit.

(3) Except as provided in subpart II of this part, the owners and operators of a CAIR NOx source that is not otherwise required to have a Title V operating permit and each CAIR NOx unit that is not otherwise required to have a Title V operating permit are not required to submit a CAIR permit application, and to have a CAIR permit, under subpart CC of this part for such CAIR NOx source and such CAIR NOx unit.

(b) Monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR NOx source and each CAIR NOx unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of subpart HH of this part.

(2) The emissions measurements recorded and reported in accordance with subpart HH of this part shall be used to determine compliance by each CAIR NOx source with the CAIR NOx emissions limitation under paragraph (c) of this section.

(c) Nitrogen oxides emission requirements.

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(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NOx source and each CAIR NOx unit at the source shall hold, in the source's compliance account, CAIR NOx allowances available for compliance deductions for the control period under Sec. 97.154(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NOx units at the source, as determined in accordance with subpart HH of this part.

(2) A CAIR NOx 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, 2009 or the deadline for meeting the unit's monitor certification requirements under Sec. 97.170(b)(1), (2), or (5) and for each control period thereafter.

(3) A CAIR NOx allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of this section, for a control period in a calendar year before the year for which the CAIR NOx allowance was allocated.

(4) CAIR NOx allowances shall be held in, deducted from, or transferred into or among CAIR NOx Allowance Tracking System accounts in accordance with subparts EE, FF, GG, and II of this part.

(5) A CAIR NOx allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NOx Annual Trading Program. No provision of the CAIR NOx Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under Sec. 97.105 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(6) A CAIR NOx allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart EE, FF, GG, or II of this part, every allocation, transfer, or deduction of a CAIR NOx allowance to or from a CAIR NOx source's compliance account is incorporated automatically in any CAIR permit of the source.

(d) Excess emissions requirements.

If a CAIR NOx source emits nitrogen oxides during any control period in excess of the CAIR NOx emissions limitation, then:

(1) The owners and operators of the source and each CAIR NOx unit at the source shall surrender the CAIR NOx allowances required for deduction under Sec. 97.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

(e) Recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NOx source and each CAIR NOx unit at the source shall keep on site at the source each of the following documents 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 permitting authority or the Administrator.

(i) The certificate of representation under Sec. 97.113 for the CAIR designated representative for the source and each CAIR NOx 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 documents are superseded because of the submission of a new certificate of representation under Sec. 97.113 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with subpart HH of this part, provided that to the extent that subpart HH of this part provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NOx Annual Trading Program.

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(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOx Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NOx Annual Trading Program.

(2) The CAIR designated representative of a CAIR NOx source and each CAIR NOx unit at the source shall submit the reports required under the CAIR NOx Annual Trading Program, including those under subpart HH of this part.

(f) Liability.

(1) Each CAIR NOx source and each CAIR NOx unit shall meet the requirements of the CAIR NOx Annual Trading Program.

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

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

(g) Effect on other authorities.

No provision of the CAIR NOx Annual Trading Program, a CAIR permit application, a CAIR permit, or an exemption under Sec. 97.105 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NOx source or CAIR NOx unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

**# 018 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.106]  
Subpart AA - CAIR NOx Annual Trading Program General Provisions  
Standard requirements.**

In accordance with 40 CFR PART 97 (relating to Federal NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs), the owners and operators and the CAIR designated representative of each CAIR source are subject to 40 CFR § 97.106 (relating to standard requirements), 40 CFR § 97.206 (relating to standard requirements) and 40 CFR § 97.306 (relating to standard requirements).

**# 019 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.206]  
Subpart AAA - CAIR SO2 Trading Program General Provisions  
Standard requirements.**

(a) Permit requirements.

(1) The CAIR designated representative of each CAIR SO2 source required to have a Title V operating permit and each CAIR SO2 unit required to have a Title V operating permit at the source shall:

(i) Submit to the permitting authority a complete CAIR permit application under Sec. 97.222 in accordance with the deadlines specified in Sec. 97.221; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.

(2) The owners and operators of each CAIR SO2 source required to have a Title V operating permit and each CAIR SO2 unit required to have a Title V operating permit at the source shall have a CAIR permit issued by the permitting authority under subpart CCC of this part for the source and operate the source and the unit in compliance with such CAIR permit.

(3) Except as provided in subpart III of this part, the owners and operators of a CAIR SO2 source that is not otherwise required to have a Title V operating permit and each CAIR SO2 unit that is not otherwise required to have a Title V operating permit are not required to submit a CAIR permit application, and to have a CAIR permit, under subpart CCC of this part for such CAIR SO2 source and such CAIR SO2 unit.

(b) Monitoring, reporting, and recordkeeping requirements.

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(1) The owners and operators, and the CAIR designated representative, of each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of subpart HHH of this part.

(2) The emissions measurements recorded and reported in accordance with subpart HHH of this part shall be used to determine compliance by each CAIR SO<sub>2</sub> source with the CAIR SO<sub>2</sub> emissions limitation under paragraph (c) of this section.

(c) Sulfur dioxide emission requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO<sub>2</sub> allowances available for compliance deductions for the control period, as determined in accordance with Sec. 97.254(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO<sub>2</sub> units at the source, as determined in accordance with subpart HHH of this part.

(2) A CAIR SO<sub>2</sub> 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, 2010 or the deadline for meeting the unit(s) monitor certification requirements under Sec. 97.270(b)(1),(2), or (5) and for each control period thereafter.

(3) A CAIR SO<sub>2</sub> allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of this section, for a control period in a calendar year before the year for which the CAIR SO<sub>2</sub> allowance was allocated.

(4) CAIR SO<sub>2</sub> allowances shall be held in, deducted from, or transferred into or among CAIR SO<sub>2</sub> Allowance Tracking System accounts in accordance with subparts FFF, GGG, and III of this part.

(5) A CAIR SO<sub>2</sub> allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO<sub>2</sub> Trading Program. No provision of the CAIR SO<sub>2</sub> Trading Program, the CAIR permit application, the CAIR permit, or an exemption under Sec. 97.205 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(6) A CAIR SO<sub>2</sub> allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart FFF, GGG, or III of this part, every allocation, transfer, or deduction of a CAIR SO<sub>2</sub> allowance to or from a CAIR SO<sub>2</sub> source's compliance account is incorporated automatically in any CAIR permit of the source.

(d) Excess emissions requirements.

If a CAIR SO<sub>2</sub> source emits sulfur dioxide during any control period in excess of the CAIR SO<sub>2</sub> emissions limitation, then:

(1) The owners and operators of the source and each CAIR SO<sub>2</sub> unit at the source shall surrender the CAIR SO<sub>2</sub> allowances required for deduction under Sec. 97.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

(e) Recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall keep on site at the source each of the following documents 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 permitting authority or the Administrator.

(i) The certificate of representation under Sec. 97.213 for the CAIR designated representative for the source and each CAIR SO<sub>2</sub> 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

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period until such documents are superseded because of the submission of a new certificate of representation under Sec. 97.213 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with subpart HHH of this part, provided that to the extent that subpart HHH of this part provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO<sub>2</sub> Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR SO<sub>2</sub> Trading Program or to demonstrate compliance with the requirements of the CAIR SO<sub>2</sub> Trading Program.

(2) The CAIR designated representative of a CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall submit the reports required under the CAIR SO<sub>2</sub> Trading Program, including those under subpart HHH of this part.

(f) Liability.

(1) Each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit shall meet the requirements of the CAIR SO<sub>2</sub> Trading Program.

(2) Any provision of the CAIR SO<sub>2</sub> Trading Program that applies to a CAIR SO<sub>2</sub> source or the CAIR designated representative of a CAIR SO<sub>2</sub> source shall also apply to the owners and operators of such source and of the CAIR SO<sub>2</sub> units at the source.

(3) Any provision of the CAIR SO<sub>2</sub> Trading Program that applies to a CAIR SO<sub>2</sub> unit or the CAIR designated representative of a CAIR SO<sub>2</sub> unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the CAIR SO<sub>2</sub> Trading Program, a CAIR permit application, a CAIR permit, or an exemption under Sec. 97.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR SO<sub>2</sub> source or CAIR SO<sub>2</sub> unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

**# 020 [40 CFR Part 97 NO<sub>x</sub> Budget Trading Program and CAIR NO<sub>x</sub> and SO<sub>2</sub> Trading Programs §40 CFR 97.306] Subpart AAAA - CAIR NO<sub>x</sub> Ozone Season Trading Program General Provisions Standard requirements.**

Permit requirements.

(1) The CAIR designated representative of each CAIR NO<sub>x</sub> Ozone Season source required to have a Title V operating permit and each CAIR NO<sub>x</sub> Ozone Season unit required to have a Title V operating permit at the source shall:

(i) Submit to the permitting authority a complete CAIR permit application under Sec. 97.322 in accordance with the deadlines specified in Sec. 97.321; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.

(2) The owners and operators of each CAIR NO<sub>x</sub> Ozone Season source required to have a Title V operating permit and each CAIR NO<sub>x</sub> Ozone Season unit required to have a Title V operating permit at the source shall have a CAIR permit issued by the permitting authority under subpart CCCC of this part for the source and operate the source and the unit in compliance with such CAIR permit.

(3) Except as provided in subpart IIII of this part, the owners and operators of a CAIR NO<sub>x</sub> Ozone Season source that is not otherwise required to have a Title V operating permit and each CAIR NO<sub>x</sub> Ozone Season unit that is not otherwise required to have a Title V operating permit are not required to submit a CAIR permit application, and to have a CAIR permit, under subpart CCCC of this part for such CAIR NO<sub>x</sub> Ozone Season source and such CAIR NO<sub>x</sub> Ozone Season unit.

**SECTION E. Source Group Restrictions.****(b) Monitoring, reporting, and recordkeeping requirements.**

(1) The owners and operators, and the CAIR designated representative, of each CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of subpart HHHH of this part.

(2) The emissions measurements recorded and reported in accordance with subpart HHHH of this part shall be used to determine compliance by each CAIR NOx Ozone Season source with the CAIR NOx Ozone Season emissions limitation under paragraph (c) of this section.

**(c) Nitrogen oxides ozone season emission requirements.**

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NOx Ozone Season allowances available for compliance deductions for the control period under Sec. 97.354(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NOx Ozone Season units at the source, as determined in accordance with subpart HHHH of this part.

(2) A CAIR NOx Ozone Season 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, 2009 or the deadline for meeting the unit's monitor certification requirements under Sec. 97.370(b)(1), (2), (3), or (7) and for each control period thereafter.

(3) A CAIR NOx Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of this section, for a control period in a calendar year before the year for which the CAIR NOx Ozone Season allowance was allocated.

(4) CAIR NOx Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NOx Ozone Season Allowance Tracking System accounts in accordance with subparts EEEE, FFFF, GGGG, and IIII of this part.

(5) A CAIR NOx Ozone Season allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NOx Ozone Season Trading Program. No provision of the CAIR NOx Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under Sec. 97.305 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(6) A CAIR NOx Ozone Season allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart EEEE, FFFF, GGGG, or IIII of this part, every allocation, transfer, or deduction of a CAIR NOx Ozone Season allowance to or from a CAIR NOx Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

**(d) Excess emissions requirements.**

If a CAIR NOx Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NOx Ozone Season emissions limitation, then:

(1) The owners and operators of the source and each CAIR NOx Ozone Season unit at the source shall surrender the CAIR NOx Ozone Season allowances required for deduction under Sec. 97.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

**(e) Recordkeeping and reporting requirements.**

(1) Unless otherwise provided, the owners and operators of the CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall keep on site at the source each of the following documents for a period of 5 years

**SECTION E. Source Group Restrictions.**

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 permitting authority or the Administrator.

(i) The certificate of representation under Sec. 97.313 for the CAIR designated representative for the source and each CAIR NOx Ozone Season 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 documents are superseded because of the submission of a new certificate of representation under Sec. 97.313 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with subpart HHHH of this part, provided that to the extent that subpart HHHH of this part provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NOx Ozone Season Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOx Ozone Season Trading Program or to demonstrate compliance with the requirements of the CAIR NOx Ozone Season Trading Program.

(2) The CAIR designated representative of a CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall submit the reports required under the CAIR NOx Ozone Season Trading Program, including those under subpart HHHH of this part.

(f) Liability.

(1) Each CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit shall meet the requirements of the CAIR NOx Ozone Season Trading Program.

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

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

(g) Effect on other authorities.

No provision of the CAIR NOx Ozone Season Trading Program, a CAIR permit application, a CAIR permit, or an exemption under Sec. 97.305 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NOx Ozone Season source or CAIR NOx Ozone Season unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

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



**SECTION E. Source Group Restrictions.**

Group Name: G02

Group Description: Emergency Diesel Firewater and Generator Engines

Sources included in this group

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

**I. RESTRICTIONS.****Operation Hours Restriction(s).****# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations and operating limitations?**

Beginning May 3, 2013, the permittee shall also be required to:

This requirement is based on Paragraph (f) of this section:

(a) Operate each engine up to a maximum of fifty (50) hours per year, for non-emergency situations. The 50 hours per year cannot be used for peak-shaving or to generate income for a facility to supply power to the electric grid, or otherwise supply power as part of a financial arrangement with another entity.

(b) Operate the engine for the purpose of maintenance checks and readiness testing, not to exceed 100 hours of operation per year. The 50 hour limit for non-emergency use is included in this total.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

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

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

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

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

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

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

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

**SECTION E. Source Group Restrictions.**

(b) - (c) N/A.

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

(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE.

(f) You must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations and operating limitations must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?**

Beginning May 3, 2013, the permittee shall:

- a. Change oil and filter every 500 hours of operation or annually, whichever comes first;
- b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

[from Table 2d of 40 CFR Part 63, Subpart ZZZZ]

**# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

By May 3, 2013, the permittee shall:

(a) – (e) N/A.

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

(g) N/A.

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

(i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must

**SECTION E. Source Group Restrictions.**

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

(j) N/A.

**# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**

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

**How do I demonstrate continuous compliance with the emission limitations and operating limitations?**

Beginning May 3, 2013, the permittee shall:

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

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

**VII. ADDITIONAL REQUIREMENTS.**

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

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



**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
031	AUXILIARY BOILER		
<b>Emission Limit</b>			<b>Pollutant</b>
3.300	Lbs/Hr		CO
14.600	Tons/Yr		CO
1.100	Lbs/Hr		NOX
4.700	Tons/Yr		NOX
0.310	Lbs/Hr		PM10
1.300	Tons/Yr		PM10
0.030	Lbs/Hr		SOX
0.130	Tons/Yr		SOX
0.490	Lbs/Hr		VOC
2.100	Tons/Yr		VOC
101	CGT TRAIN 1 COMBINED CYCLE TURBINE		
<b>Emission Limit</b>			<b>Pollutant</b>
5.900	PPMV	dgb @15%O2	Ammonia
18.900	Lbs/Hr		Ammonia
3.000	PPMV	dgb @15%O2	CO
15.700	Lbs/Hr		CO
1.100	Lbs/Hr		Formaldehyde
2.500	PPMV	dgb @15%O2	NOX
21.600	Lbs/Hr		NOX
34.800	Lbs/Hr		PM10
1.200	PPMV	dgb @15%O2	SOX
14.500	Lbs/Hr		SOX
3.300	PPMV	dgb @15%O2	VOC
10.000	Lbs/Hr		VOC
102	CGT TRAIN 2 COMBINED CYCLE TURBINE		
<b>Emission Limit</b>			<b>Pollutant</b>
5.900	PPMV	dgb @15%O2	Ammonia
18.900	Lbs/Hr		Ammonia
3.000	PPMV	dgb @15%O2	CO
15.700	Lbs/Hr		CO
1.100	Lbs/Hr		Formaldehyde
2.500	PPMV	dgb @15%O2	NOX
21.600	Lbs/Hr		NOX
34.800	Lbs/Hr		PM10
1.200	PPMV	dgb @15%O2	SOX
14.500	Lbs/Hr		SOX
3.300	PPMV	dgb @15%O2	VOC
10.000	Lbs/Hr		VOC

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description
104	DIESEL EMERGENCY FIREWATER PUMP ENGINE(265 BHP)
<b>Emission Limit</b>	
0.330 Tons/Yr	CO
1.320 Lbs/Hr	CO
1.550 Tons/Yr	NOX
6.200 Lbs/Hr	NOX
0.110 Tons/Yr	PM10
0.440 Lbs/Hr	PM10
0.100 Tons/Yr	SOX
0.400 Lbs/Hr	SOX
0.130 Tons/Yr	VOC
0.520 Lbs/Hr	VOC
105	DIESEL EMERGENCY GENERATOR ENGINE (489 BHP)
<b>Emission Limit</b>	
3.800 Tons/Yr	CO
15.200 Lbs/Hr	CO
3.100 Tons/Yr	NOX
12.400 Lbs/Hr	NOX
0.180 Tons/Yr	PM10
0.720 Lbs/Hr	PM10
1.000 Tons/Yr	SOX
4.000 Lbs/Hr	SOX
0.440 Tons/Yr	VOC
1.760 Lbs/Hr	VOC
106	CONDENSER COOLING TOWER
<b>Emission Limit</b>	
0.360 Tons/Yr	PM10
1.560 Tons/Yr	PM10

**Site Emission Restriction Summary**

Emission Limit	Pollutant
9.600 Tons/Yr	Formaldehyde
581.000 Tons/Yr	CO
313.000 Tons/Yr	PM10
128.000 Tons/Yr	SOX
296.000 Tons/Yr	NOX
90.000 Tons/Yr	VOC
166.000 Tons/Yr	Ammonia (Anhydrous)



**SECTION G. Emission Restriction Summary.**

**SECTION H. Miscellaneous.**

A. Section G in the proposed Operating Permit is designed to be a general summary of emission limitations for individual processes, or the entire facility. Neither the capacities/throughputs listed in Section A, nor emissions listed in Section G are enforceable conditions.

B. The following description of the emission processes at Fayette is for information purposes only:

This Operating Permit authorizes Duke Energy Fayette, LLC to operate an electrical generation facility known as the Fayette Energy Facility, located in German Township, Fayette County. The main sources at this facility are two GE Model PG 7241 (FA) combustion gas turbines (CGT). Turbines are in combined cycle service, each equipped with duct burners and a heat recovery steam generator (HRSG). The HRSGs of both CGT systems supply steam to a single condensing reheat steam turbine generator (STG), and a surface condenser serving the STG. Both the CGTs and duct burners utilize natural gas as a fuel. Maximum heat input is 1,745 MMBtu/hour for each CGT, itself, and 589 MMBtu/hour for the associated duct burners, for a total heat input of 2,343 MMBtu/hour to each of turbine systems. The overall electrical output rating for each turbine train is 310 MW nominal. The combustion gas turbines can also operate in a combined cycle mode, without firing the duct burners, resulting in a lower steam generation rate in the HRSG.

The turbines are equipped with dry, low NO<sub>x</sub> combustors. Turbine exhaust gases are treated with selective catalytic reduction (SCR) for NO<sub>x</sub> control, and an oxidation catalyst (OC) for VOC and CO control.

Supporting equipment at this site includes an auxiliary boiler, (rated at 30.6 MMBtu/hr and equipped with low NO<sub>x</sub> burners) one cooling tower with drift eliminators, three chiller cooling towers with drift eliminators, diesel firewater pump engine, and a diesel emergency generator engine.

The following sources at this facility are insignificant emitters of air emissions: Bulk Tanks in main cooling tower tank farm and at river intake structure, Water and Chemical Storage Tanks, Diesel Fuel Oil and Kerosene Tanks, and a Parts Washer.

C. The potential to emit from this new facility was established under the plan approval at 296 tons of NO<sub>x</sub> and 90 tons of VOC per year and in accordance with Pa. Code Title 25 § 127.210 was offset with Emission Reduction Credits (ERCs) at a ratio of 1.15:1.0.

D. As required by Pa. Code Title 25 § 127.210, the Owner/operator secured 341 tons of NO<sub>x</sub> ERCs and 104 tons of VOC ERCs for the plan approval. These ERCs were properly generated, certified by the Department and processed through the registry in accordance with Pa. Code Title 25 § 127.206(d)(1). Upon procurement of the required ERCs, the owner/operator provided the Department with documentation clearly specifying the details of the ERC transaction. The Plan Approval was modified to indicate Departmental approval of the transfer and use of said ERCs in accordance with Pa. Code Title 25 § 127.208(2).

E. The construction was subject to Pa. Code Title 25 §§ 127.206(d)(1) and (2), and other applicable sections of Chapter 127, Subchapter E, for non-attainment New Source Review. In accordance with Pa. Code Title 25 § 127.205(3), each modification to a facility was offset in accordance with Pa. Code Title 25 §§ 127.201 and 127.211, the total of the net increase in potential to emit.

F. PA DEP methodology for reduction of visual opacity data observed in accordance with EPA Method 9: This data reduction methodology differs from EPA Method 9 in that it does not require a single continuous time interval and does not average datum of individual observations. Visual observations in accordance with Method 9 take place every 15 seconds and are recorded for this time interval. Since the observations of 10%, or greater, can be during multiple intervals, the number of high opacity observation readings are merely counted. For an emission limitation of opacity not to exceed 10% for a period or periods aggregating more than three minutes in any 1 hour, a total of 13 observations of greater than 10% opacity would exceed this standard. Similarly, 7 observations of greater than 10% opacity, over a 30 minute period of observation would also exceed the standard.





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

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