COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: April 2, 2013  Effective Date: December 7, 2016
Revision Date: December 7, 2016  Expiration Date: April 2, 2018
Revision Type: Modification

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

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

TITLE V Permit No: 04-00235
Federal Tax id - Plant Code: 34-1940561-1

Owner Information

Name: FIRSTENERGY GENERATION LLC
Mailing Address: 341 WHITE POND DR
ENV DEPT (A-WAC-B2)
AKRON, OH 44320-1119

Plant Information

Plant: FIRSTENERGY GEN LLC/BRUCE MANSFIELD PLT
Location: 04  Beaver County  04950  Shippingport Borough
SIC Code: 4911  Trans. & Utilities - Electric Services

Responsible Official

Name: JAMES E GRAF
Title: PLANT DIRECTOR
Phone: (724) 643 - 2310

Permit Contact Person

Name: ERIC R FOSTER
Title: ENGINEER IV
Phone: (330) 436 - 1530

[Signature] ____________________________________________
MARK R. GOROG, P.E., ENVIRONMENTAL PROGRAM MANAGER, SOUTHWEST REGION
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<thead>
<tr>
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<th>Source Name</th>
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**PERMIT MAPS**

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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.

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.

<table>
<thead>
<tr>
<th>#006</th>
<th>[25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]</th>
</tr>
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</table>

**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.

<table>
<thead>
<tr>
<th>#007</th>
<th>[25 Pa. Code §§ 127.25, 127.444, &amp; 127.512(c)(1)]</th>
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</table>

**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.

<table>
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<tr>
<th>#008</th>
<th>[25 Pa. Code § 127.512(c)(2)]</th>
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**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.

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.

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**

The permittee may make minor operating permit modifications (as defined in 25 Pa. Code §121.1), on an expedited basis, in accordance with 25 Pa. Code §127.462 (relating to minor operating permit modifications).

### #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).

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

### #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.


**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 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).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

#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)
SECTION B. General Title V Requirements

(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 § 127.403(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.


Recordkeeping Requirements

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

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

(2) The dates the analyses were performed.

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

(4) The analytical techniques or methods used.

(5) The results of the analyses.

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

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

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

#### #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**

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

1. Section 127.14 (relating to exemptions)
2. Section 127.447 (relating to alternative operating scenarios)
3. Section 127.448 (relating to emissions trading at facilities with federally enforceable emissions caps)
4. Section 127.449 (relating to de minimis emission increases)
SECTION B. General Title V Requirements

(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)

#026 [25 Pa. Code §§ 127.441(d), 127.512(l) 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 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(l).
SECTION B. General Title V Requirements

#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 incorporating a significant permit modification in this Title V Permit shall be covered by the permit shield at the time that the permit containing the significant modification is issued.
SECTION C. Site Level Requirements

I. RESTRICTIONS.

Emission Restriction(s).

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<tr>
<td># 001</td>
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<td>No person may permit air pollution as that term is defined in the act.</td>
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<thead>
<tr>
<th>#</th>
<th>[25 Pa. Code §123.1]</th>
<th>Prohibition of certain fugitive emissions</th>
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<tr>
<td># 002</td>
<td></td>
<td>(a) No person may permit the emission into the outdoor atmosphere of fugitive air contaminant from a source other than the following:</td>
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  1. Construction or demolition of buildings or structures. 
  2. Grading, paving and maintenance of roads and streets. 
  3. Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets. 
  5. Stockpiling of materials. 
  6. Open burning operations. 
  7. N/A 
  8. Not Applicable. 
  (9) Sources and classes of sources other than those identified in paragraphs (1)-(8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

  (i) the emissions are of minor significance with respect to causing air pollution; and 
  (ii) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard. 

(b) An application form for requesting a determination under either subsection (a)(9) or 129.15(c) is available from the Department. In reviewing these applications, the Department may require the applicant to supply information including, but not limited to, a description of proposed control measures, characteristics of emissions, quantity of emissions, and ambient air quality data and analysis showing the impact of the source on ambient air quality. The applicant shall be required to demonstrate that the requirements of 25 Pa Code Sections 123.1(a)(9) and (c) and 123.2 (relating to fugitive particulate matter) or of the requirements of 25 Pa Code Section 129.15(c) have been satisfied. Upon such demonstration, the Department will issue a determination, in writing, either as an operating permit condition, for those sources subject to permit requirements under the act, or as an order containing appropriate conditions and limitations. 

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<td># 003</td>
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<td>A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code Section 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.</td>
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<tr>
<th>#</th>
<th>[25 Pa. Code §123.31]</th>
<th>Limitations</th>
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<tr>
<td># 004</td>
<td></td>
<td>(a) Limitations are as follows:</td>
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SECTION C. Site Level Requirements

(1) If control of malodorous air contaminants is required under subsection (b), emissions shall be incinerated at a minimum of 1200°F for at least 0.3 seconds prior to their emission into the outdoor atmosphere.

(2) Techniques other than incineration may be used to control malodorous air contaminants if such techniques are equivalent to or better than the required incineration in terms of control of the odor emissions and are approved in writing by the Department.

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

(c) N/A

# 005 [25 Pa. Code §123.41]

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

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

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

# 006 [25 Pa. Code §123.42]

Exceptions
The limitations of 25 Pa Code Section 123.41 (relating to limitations) 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 25 Pa Code Section 123.1(a)(1) - (9) (relating to prohibition of certain fugitive emissions).

(4) When arising from the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.

# 007 [25 Pa. Code §129.14]

Open burning operations
(a) Air basins. No person may permit the open burning of material in an air basin. The Bruce Mansfield facility is located in the Lower Beaver Valley Air Basin.

(b) N/A

(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) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.

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

(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) Subsection (b) notwithstanding clearing and grubbing wastes may be burned outside of an air basin, subject to the following limitations:

(i) Upon receipt of a complaint or determination by the Department that an air pollution problem exists, the Department may order that the open burning cease or comply with subsection (b) of this section.

(ii) Authorization for open burning under this paragraph does not apply to clearing and grubbing wastes transported from an air basin for disposal outside of an air basin.

(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.

II. TESTING REQUIREMENTS.

# 008 [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
III. MONITORING REQUIREMENTS.

# 009 [25 Pa. Code §123.43]
Measuring techniques

Visible emissions may be measured using either of the following:

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

Monitoring and related recordkeeping and reporting requirements.

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

1. the presence of visible stack emissions.
2. the presence of visible fugitive emissions.
3. the presence of malodors beyond the boundaries of the facility.

(b) All detected visible stack emissions, visible fugitive emissions or malodors that have the potential to exceed applicable limits shall be reported to the manager of the facility or his designee. Corrective action shall be initiated.

(c) If visible stack emissions that have the potential to exceed applicable limits persist beyond 24 hours (48 hours on a weekend or holiday), arrangements shall be made for opacity readings to be conducted by an observer certified in EPA Method 9.

IV. RECORDKEEPING REQUIREMENTS.

Monitoring and related recordkeeping and reporting requirements.

The permittee shall keep records of the daily facility surveys. Records shall include the name of the person conducting the surveys, the date and time of the survey, and the results of each survey. If instances of unpermitted visible stack emissions, visible fugitive emissions and malodorous air emissions are observed, records shall be kept of the corrective action taken to abate same and/or to prevent future occurrences. Records shall be kept for 5 years and shall be made available to the Department upon request.

# 012 [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 25 Pa Code Section 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.

Reporting requirements.

(a) The owner or operator shall report to the Department each malfunction that occurs at this facility. For purposes of this condition, a malfunction means any failure to operate air pollution control equipment and/or process equipment in a normal or usual manner, consistent with good operating practices and the conditions of this authorization.
SECTION C. Site Level Requirements

(b) When the malfunction may immediately impact public health and safety or the environment or when it is reasonable to believe that the malfunction may result in citizen complaints, the notification shall be made to the Department by telephone no later than one hour after discovery of the incident. The telephone number in subpart (h), below, shall be used to report the malfunction. Examples of malfunctions that may result in citizen complaints include, but are not limited to: unusually large dust plumes, heavy smoke, or 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.

(c) The notice shall describe the following:
   (i) Name and location of the facility;
   (ii) Nature and cause of the malfunction;
   (iii) Time when the malfunction or breakdown was first observed;
   (iv) Expected duration of excess emissions and the malfunction; and
   (v) Estimated rate of emissions.

(d) The owner or operator shall immediately notify the Department by telephone when corrective measures have been accomplished. The telephone number in subpart (g), below, shall be used to report the completion of corrective measures.

(e) Malfunctions that do not appear to be likely to pose a danger to public health and safety or the environment or will not in citizen complaints shall be reported within 24 hours or on the next business day. The telephone number in subpart (g), below, shall be used to report the malfunction.

(f) If requested by DEP, the owner/operator shall submit a full written report to the Department no later than 15 days after the malfunction. The report shall include the items identified in (c) and corrective measures taken on the malfunction. The report shall be sent to the address in subpart (g), below.

(g) Malfunctions shall be reported to the Department at the following address and telephone number:
P ADEP
Office of Air Quality
400 Waterfront Drive
Pittsburgh, PA 15222-4745
(412)442-4000

# 014 [25 Pa. Code §127.511]
Monitoring and related recordkeeping and reporting requirements.
In accordance with 25 Pa. Code § 127.511(c), With respect to reporting, the permit shall incorporate the applicable reporting requirements and require the following:

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

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

Monitoring and related recordkeeping and reporting requirements.
Owner/operator shall submit the semi-annual monitoring reports for this facility by April 30 and October 31 of each year. The April 30 semi-annual monitoring report shall cover the period from October 1 through March 31. The October 31 semi-annual monitoring report shall cover the period from April 1 through September 30. This semi-annual monitoring report may be included in October 31 Title V Compliance Certification required by 25 Pa. Code § 127.513. However, in accordance with 25 Pa. Code § 127.511(c), 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.
SECTION C. Site Level Requirements

Compliance certification.
Permittee shall submit Compliance Certification Forms sufficient to demonstrate compliance with terms and conditions contained in the permit. Each Compliance Certification shall include the following:

(a) The identification of each term or condition of the permit that is the basis of the certification.

(b) The compliance status.

(c) The methods used for determining the compliance status of the source, currently and over the reporting period.

(d) Whether compliance was continuous or intermittent.

(e) Other facts the Department may require to determine the compliance status of the source.

Compliance Certifications shall be submitted to the Administrator of the EPA, as well as to the Department. EPA requests that Compliance Certifications be e-mailed to them at the following address: R3_APD_Permits@epa.gov

#017 [25 Pa. Code §127.513]
Compliance certification.
Owner/operator shall submit a Title V Compliance Certification for this facility by October 31 of each year. The Title V Compliance Certification shall cover the period October 1 through September 30. However, in accordance with 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.

#018 [25 Pa. Code §135.21]
Emission statements
(a) Except as provided in subsection (d), this section applies to stationary sources or facilities:

(1) Located in an area designated by the Clean Air Act as a marginal, moderate, serious, severe or extreme ozone nonattainment area and which emit oxides of nitrogen or VOC.

(2) Not located in an area described in subparagraph (1) and included in the Northeast Ozone Transport Region which emit or have the potential to emit 100 tons or more oxides of nitrogen or 50 tons or more of VOC per year.

(b) The owner or operator of each stationary source emitting oxides of nitrogen or VOC’s 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 or the plant manager that the information contained in the statement is accurate.

(c) Annual emission statements are due by March 1 for the preceding calendar year beginning with March 1, 1993, for calendar year 1992 and shall provide data consistent with requirements and guidance developed by the EPA. The guidance document is available from: United States Environmental Protection Agency, 401 M Street, S.W., Washington, D.C. 20460. The Department may require more frequent submittals if the Department determines that one or more of the following applies:

(1) A more frequent submission is required by the EPA.

(2) Analysis of the data on a more frequent basis is necessary to implement the requirements of the act.

(d) Subsection (a) does not apply to a class or category of stationary sources which emits less than 25 tons per year of VOC’s or oxides of nitrogen, if the Department in its submissions to the Administrator of the EPA under Sections 182(a)(1)
SECTION C. Site Level Requirements

or (3)(B)(ii) of the Clean Air Act (42 U.S.C.A. 7511a(a)(1) or (3)(B)(ii)) provides an inventory of emissions from the class or category of sources based on the use of the emission factors established by the Administrator or other methods acceptable to the Administrator. The Department will publish in the Pennsylvania Bulletin a notice of the lists of classes or categories of sources which are exempt from the emission statement requirement under this subsection.

# 019  [25 Pa. Code §135.3]
Reporting
(a) A person who owns or operates a source to which this chapter applies, and who has previously been advised by the Department to submit a source report, 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 proceeding calendar year and sources modified during the same period which were not previously reported.

(b) A person who receives initial notification by the Department that a source report is necessary shall submit an initial source report within 60 days after receiving the notification or by March 1 of the year following the year for which the report is required, whichever is later.

(c) A 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.

VI. WORK PRACTICE REQUIREMENTS.

# 020  [25 Pa. Code §123.1]
Prohibition of certain fugitive emissions
The permittee shall take all reasonable actions to prevent particulate matter from a source identified in 25 PA Code 123(a)(1)-(7) from becoming airborne. These actions shall include, but not be limited to, the following:

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

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

3. Paving and maintenance of roadways.

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

VII. ADDITIONAL REQUIREMENTS.

# 021  [25 Pa. Code §129.96]
Applicability
(a) The NOx requirements of this section and § § 129.97-129.100 apply Statewide to the owner and operator of a major NOx emitting facility and the VOC requirements of this section and § § 129.97-129.100 apply Statewide to the owner and operator of a major VOC emitting facility that were in existence on or before July 20, 2012, for which a requirement or emission limitation, or both, has not been established in § § 129.51-129.52c, 129.54-129.69, 129.71-129.73, 129.75, 129.77, 129.101-129.107 and 129.301-129.310.

(b) - (d) N/A.

[All of the sources (Source IDs 031 - 040, 101, and 102) at the Bruce Mansfield Plant are subject to the applicable requirements of 25 Pa Code § 129.96 - 129.100. The applicable requirements of RACT II (25 Pa Code § 129.96 - 129.100) for the three coal-fired EGUs (Source IDs 031 - 033) are contained in Section E - Source Group - Group 1 - Three EGUs]
Boilers. Applicable RACT II requirements for the Non-EGU sources (Source IDs 034 - 040, 101, and 102) are contained in Section E - Source Group - Group 4 - RACT II Requirements for Non-EGU Sources. RACT II has superseded any applicable requirements for RACT for each of the emission sources at the Bruce Mansfield Plant.

# 022 [25 Pa. Code §127.11a]
	Reactivation of sources.

(a) Except as provided by 25 Pa Code Section 127.215 (relating to reactivation), a source which has been out of operation or production for at least 1 year but less than or equal to 5 years may be reactivated and will not be considered a new source if the following conditions are satisfied:

(1) The owner or operator shall, within 1 year of the deactivation submit to the Department and implement a maintenance plan which includes the measures to be taken, including maintenance, upkeep, repair or rehabilitation procedures, which will enable the source to be reactivated in accordance with the terms of the permit issued to the source.

(2) The owner or operator shall submit a reactivation plan to the Department for approval at least 60 days prior to the proposed date of reactivation. The reactivation plan shall include sufficient measures to ensure that the source will be reactivated in compliance with the permit requirements. The permittee may submit a reactivation plan to the Department at any time during the term of its operating permit. The reactivation plan may also be submitted to and reviewed by the Department as part of the plan approval or permit application or renewal process.

(3) The owner or operator of the source shall submit a notice to the Department within 1 year of deactivation requesting preservation of emissions in the inventory and indicating the intent to reactivate the source.

(4) The owner or operator of the source shall comply with the terms and conditions of the maintenance plan while the source is deactivated, and shall comply with the terms of the reactivation plan and operating permit upon reactivation.

(5) The owner or operator of the source with an approved reactivation plan and operating permit shall notify the Department in writing at least 30 days prior to reactivation of the source.

(b) A source which has been out of operation or production for more than 5 years but less than 10 years may be reactivated and will not be considered a new source if the following conditions are satisfied:

(1) The owner or operator of the source complies with the requirements of subsection (a).

(2) The owner or operator of the source obtains a plan approval and operating permit which requires that the emission of air contaminants from the source will be controlled to the maximum extent, consistent with the best available technology as determined by the Department as of the date of reactivation.

(c) A source which has been out of operation for 10 or more years shall meet the requirements of this chapter applicable to a new source.

(d) Other provisions of this section to the contrary notwithstanding, a source that is out of production or operation on November 26, 1994, shall have 1 year to demonstrate compliance with the requirements of subsection (a)(1), (3) and (4).

(e) A source located in a nonattainment area that would emit an air contaminant related to the nonattainment designation or a source that would emit NOx or VOC emissions may not be reactivated unless the proposed emissions are included in the SIP emission inventory or until the proposed emissions of these contaminants from the source are submitted to and approved by the EPA as an amendment of the SIP. The Department may refuse to allow reactivation of such a source for cause.

(f) The source shall have an operating permit prior to reactivation.

	Reactivation.

(a) A facility which has been out of operation or production for 1 year or more during the term of its operating permit may be
reactivated within the term of its operating permit and will not be considered a new facility subject to this subchapter if the following conditions are satisfied:

(1) The permittee shall within 1 year of the deactivation submit in writing to the Department and implement a maintenance plan which includes the measures to be taken, including maintenance, upkeep, repair or rehabilitation procedures, which will enable the facility to be reactivated in accordance with the terms of the permit.

(2) The permittee shall submit a reactivation plan at least 30 days prior to the proposed date of reactivation. The reactivation plan shall include sufficient measures to ensure that the facility will be reactivated in compliance with the permit requirements. The permittee may submit a reactivation plan to the Department at any time during the term of its operating permit. The reactivation plan may also be submitted to and approved in writing by the Department as part of the plan approval or permit application process.

(3) The permittee shall notify the Department in writing within 1 year of deactivation requesting preservation of the emissions in the inventory and indicating the intent to reactivate the facility.

(4) The permittee shall comply with the terms and conditions of the following:

(i) Maintenance plan while the facility is deactivated.

(ii) Reactivation plan and the operating permit upon reactivation.

(5) The permittee with an approved reactivation plan shall notify the Department in writing at least 30 days prior to reactivation of the facility.

(a) The Department will approve or disapprove in writing the complete reactivation plan within 30 days of plan submission, unless additional time is required based on the size or complexity of the facility.

(b) For a facility which is deactivated in accordance with subsection (a), ERCs may be created only if an ERC registry application is filed within 2 years of deactivation.

# 024 [25 Pa. Code §127.531]
Special conditions related to acid rain.

(a) This section describes the permit program for acid deposition control in accordance with Titles IV and V of the Clean Air Act (42 U.S.C.A. 7641 and 7642 and 7651--7651f). The provisions of this section shall be interpreted in a manner consistent with the Clean Air Act and the regulations thereunder.

(b) The owner or operator or the designated representative of each affected source under section 405 of the Clean Air Act (42 U.S.C.A. 7651d) shall submit a permit application and compliance plan for the affected source to the Department within 120 days from notice by the Department to submit an application but no later than January 1, 1996, for sulfur dioxide, and no later than January 1, 1998, for NOx, that meets the requirements of this chapter, the Clean Air Act and the regulations thereunder.

(c) In the case of affected sources for which an application and plan are timely received, the permit application and the compliance plan, including amendments thereto, shall be binding on the owner or operator or the designated representative of the owner or operator and shall be enforceable as a permit for purposes of this section until a permit is issued by the Department.

(d) A permit issued under this section shall require the source to achieve compliance as soon as possible but no later than the date required by the Clean Air Act or the regulations thereunder for the source.

(e) At any time after the submission of a permit application and compliance plan, the applicant may submit a revised application and compliance plan. In considering a permit application and compliance plan under this section, the Department will coordinate with the Pennsylvania Public Utility Commission consistent with the requirements established by the EPA.
SECTION C. Site Level Requirements

(f) In addition to the other requirements of this chapter, permits issued under this section shall prohibit the following:

1. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide that the owner or operator or designated representative holds for the unit.

2. Exceeding applicable emission rates or standards, including ambient air quality standards.

3. The use of an allowance prior to the year for which it is allocated.

4. Contravention of other provisions of the permit.

(g) Each permit issued to a source under Title IV of the Clean Air Act shall contain a condition prohibiting emissions exceeding any allowances that the source lawfully holds under Title IV of the Clean Air Act or the regulations thereunder.

1. A permit revision will not be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, if the increases do not require a permit revision under another applicable requirement.

2. A limit will not be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with another applicable requirement.

3. An allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act.

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: FOSTER WHEELER UNIT 1
Source Capacity/Throughput: 7,914.000 MMBTU/HR

Conditions for this source occur in the following groups: GROUP 1

This source occurs in alternate operation SCR OPERATION

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

*** Permit Shield in Effect. ***
SECTION D.  Source Level Requirements

Source ID: 032  Source Name: FOSTER WHEELER UNIT 2
Source Capacity/Throughput 7,914.000 MMBTU/HR

Conditions for this source occur in the following groups: GROUP 1

This source occurs in alternate operation SCR OPERATION

I.  RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

*** Permit Shield in Effect. ***
SECTION D.  Source Level Requirements

Source ID:  033  Source Name:  FOSTER WHEELER UNIT 3
Source Capacity/Throughput:  7,914.000  MM BTU/HR

Conditions for this source occur in the following groups:  GROUP 1

This source occurs in alternate operation  OPERATION WITH SCR

I.  RESTRICTIONS.

Emission Restriction(s).

# 001  [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.42]
Subpart D - Standards of Performance for Fossil- Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971
Standard for particulate matter.

(a) On and after the date on which the performance test required to be conducted by 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases which:

(1) Contain particulate matter in excess of 43 nanograms per joule heat input (0.10 lb per million Btu) derived from fossil fuel or fossil fuel and wood residue.

(2) Exhibit greater than 20 percent opacity except for one six-minute period per hour of not more than 27 percent opacity.

# 002  [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.43]
Subpart D - Standards of Performance for Fossil- Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971
Standard for sulfur dioxide.

(a) On and after the date on which the performance test required to be conducted by 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases which contain sulfur dioxide in excess of:

(1) N/A

(2) 520 nanograms per joule heat input (1.2 lb per million Btu) derived from solid fossil fuel or solid fossil fuel and wood residue, except as provided in paragraph (e) of this section.

# 003  [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.44]
Subpart D - Standards of Performance for Fossil- Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971
Standard for nitrogen oxides.

(a) On and after the date on which the performance test required to be conducted by 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases which contain nitrogen oxides, expressed as NO2 in excess of:

(1) N/A

(2) N/A
III. 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.

# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.45]
Subpart D - Standards of Performance for Fossil-Fuel Fired Steam Generators for Which Construction Is Commenced After August 17, 1971

Emission and fuel monitoring.

(a) Each owner or operator shall install, calibrate, maintain, and operate continuous monitoring systems for measuring the opacity of emissions, sulfur dioxide emissions, nitrogen oxides emissions, and either oxygen or carbon dioxide except as provided in paragraph (b) of this section.

(b) Certain of the continuous monitoring system requirements under paragraph (a) of this section do not apply to owners or operators under the following conditions:

   (1) For a fossil fuel-fired steam generator that burns only gaseous fossil fuel, continuous monitoring systems for measuring the opacity of emissions and sulfur dioxide emissions are not required.

   (2) For a fossil fuel-fired steam generator that does not use a flue gas desulfurization device, a continuous monitoring system for measuring sulfur dioxide emissions is not required if the owner or operator monitors sulfur dioxide emissions by fuel sampling and analysis under paragraph (d) of this section.

   (3) Notwithstanding 60.13(b), installation of a continuous monitoring system for nitrogen oxides may be delayed until after the initial performance tests under 60.8 have been conducted. If the owner or operator demonstrates during the performance test that emissions of nitrogen oxides are less than 70 percent of the applicable standards in 60.44, a continuous monitoring system for measuring nitrogen oxides emissions is not required. If the initial performance test results show that nitrogen oxide emissions are greater than 70 percent of the applicable standard, the owner or operator shall install a continuous monitoring system for nitrogen oxides within one year after the date of the initial performance tests under 60.8 and comply with all other applicable monitoring requirements under this part.

   (4) If an owner or operator does not install any continuous monitoring systems for sulfur oxides and nitrogen oxides, as provided under paragraphs (b)(1) and (b)(3) or paragraphs (b)(2) and (b)(3) of this section a continuous monitoring system for measuring either oxygen or carbon dioxide is not required.
(c) For performance evaluations under 60.13(c) and calibration checks under 60.13(d), the following procedures shall be used:

(1) Methods 6, 7, and 3B, as applicable, shall be used for the performance evaluations of sulfur dioxide and nitrogen oxides continuous monitoring systems. Acceptable alternative methods for Methods 6, 7, and 3B are given in 60.46(d).

(2) Sulfur dioxide or nitric oxide, as applicable, shall be used for preparing calibration gas mixtures under Performance Specification 2 of Appendix B to this part.

(3) For affected facilities burning fossil fuel(s), the span value for a continuous monitoring system measuring the opacity of emissions shall be 80, 90, or 100 percent and for a continuous monitoring system measuring sulfur oxides or nitrogen oxides the span value shall be determined as follows:

<table>
<thead>
<tr>
<th>Fossil fuel</th>
<th>Span value for sulfur oxides</th>
<th>Span value for nitrogen oxides</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas..........</td>
<td>(&lt;FN1&gt;)</td>
<td>500</td>
</tr>
<tr>
<td>Liquid.......</td>
<td>1,000</td>
<td>500</td>
</tr>
<tr>
<td>Solid........</td>
<td>1,500</td>
<td>1000</td>
</tr>
<tr>
<td>Combination</td>
<td>1,000y+1,500z</td>
<td>500 (x+y)+1,000z</td>
</tr>
</tbody>
</table>

<FN1>Not applicable.

where:

x = the fraction of total heat input derived from gaseous fossil fuel, and
y = the fraction of total heat input derived from liquid fossil fuel, and
z = the fraction of total heat input derived from solid fossil fuel.

(4) All span values computed under paragraph (c)(3) of this section for burning combinations of fossil fuels shall be rounded to the nearest 500 ppm.

(5) For a fossil fuel-fired steam generator that simultaneously burns fossil fuel and nonfossil fuel, the span value of all continuous monitoring systems shall be subject to the Administrator's approval.

(d) [Reserved]

(e) For any continuous monitoring system installed under paragraph (a) of this section, the following conversion procedures shall be used to convert the continuous monitoring data into units of the applicable standards (ng/J, lb/million Btu):

(1) When a continuous monitoring system for measuring oxygen is selected, the measurement of the pollutant concentration and oxygen concentration shall each be on a consistent basis (wet or dry). Alternative procedures approved by the Administrator shall be used when measurements are on a wet basis. When measurements are on a dry basis, the following conversion procedure shall be used:

\[ E = CF[20.9/20.9--\text{percent } O_2] \]

where:

E, C, F, and \%O_2 are determined under paragraph (f) of this section.

(2) When a continuous monitoring system for measuring carbon dioxide is selected, the measurement of the pollutant concentration and carbon dioxide concentration shall each be on a consistent basis (wet or dry) and the following conversion procedure shall be used:

\[ E = CFc \times [100/\text{percent } CO_2] \]
where:

E, C, Fc and %CO2 are determined under paragraph (f) of this section.

(f) The values used in the equations under paragraphs (e) (1) and (2) of this section are derived as follows:

(1) \[ E = \text{pollutant emissions, ng/J (lb/million Btu).} \]

(2) \[ C = \text{pollutant concentration, ng/dscm (lb/dscf), determined by multiplying the average concentration (ppm) for each one-hour period by 4.15 \times 104 M ng/dscm per ppm (2.59 \times 10^{-9} M lb/dscf per ppm) where M = pollutant molecular weight, g/mol (lb/lb-mole). M=64.07 for sulfur dioxide and 46.01 for nitrogen oxides.} \]

(3) \[ \%O2, \%CO2 = \text{oxygen or carbon dioxide volume (expressed as percent), determined with equipment specified under paragraph (a) of this section.} \]

(4) \[ F, Fc = \text{a factor representing a ratio of the volume of dry flue gases generated to the calorific value of the fuel combusted (F), and a factor representing a ratio of the volume of carbon dioxide generated to the calorific value of the fuel combusted (Fc), respectively. Values of F and Fc are given as follows:} \]

(i) For anthracite coal as classified according to ASTM D388-77 (incorporated by reference—see 60.17), \[ F = 2.723 \times 10^{-17} \text{ dscm/J (10.140 dscf/million Btu and Fc=0.532 X 10-17 scm CO2/J (1.980 scf CO2/million Btu)} \]

(ii) For subbituminous and bituminous coal as classified according to ASTM D388-77 (incorporated by reference—see 60.17), \[ F=2.637 X 10-7 \text{ dscm/J (9.820 dscf/million Btu) and Fc=0.486 X 10-7 scm CO2/J (1.810 scf CO2/million Btu).} \]

(iii) For liquid fossil fuels including crude, residual, and distillate oils, \[ F=2.476 X 10-7 \text{ dscm/J (9,220 dscf/million Btu) and Fc=0.384 X 10-7 scm CO2/J (1.430 scf CO2/million Btu).} \]

(iv) For gaseous fossil fuels, \[ F=2.347 10-7 \text{ dscm/J (8,740 dscf/million Btu). For natural gas, propane, and butane fuels, Fc=0.279 X 10-7 scm CO2/J (1,040 scf CO2/million Btu) for natural gas, 0.322 X 10-7 scm CO2/J (1,200 scf CO2/million Btu) for propane, and 0.338 X 10-7 scm CO2/J (1,260 scf CO2/million Btu) for butane.} \]

(v) For bark F=2.589 X 10-7 dscm/J (9,640 dscf/million Btu) and Fc=0.500 X 10-7 scm CO2/J (1,840 scf CO2/million Btu). For wood residue other than bark F=2.492 X 10-7 dscm/J (9,280 dscf/million Btu) and Fc=0.494 X 10-7 scm CO2/J (1,860 scf CO2/million Btu).

(vi) For lignite coal as classified according to ASTM D388-77 (incorporated by reference—see 60.17), \[ F=2.659 X 10-7 \text{ dscm/J (9,900 dscf/million Btu) and Fc=0.516 X 10-7 scm CO2/J (1,920 scf CO2/million Btu).} \]

(5) The owner or operator may use the following equation to determine an F factor (dscm/J or dscf/million Btu) on a dry basis (if it is desired to calculate F on a wet basis, consult the Administrator) or Fc factor (scm CO2/J, or scf CO2/million Btu) on either basis in lieu of the F or Fc factors specified in paragraph (f)(4) of this section:

\[
F = \frac{227.2 \text{ (pct. II)} + 95.5 \text{ (pct. C)} + 35.6 \text{ (pct. S)} + 8.7 \text{ (pct. N)} - 28.7 \text{ (pct. O)}}{10-6}
\]

\[
\text{GCV} \times 2.0 \times 10^{-5}
\]

\[
\text{(pct. C)}
\]

\[
Fc = \frac{\text{GCV}}{\text{SI units}}
\]
SECTION D. Source Level Requirements

\[
F = \frac{\text{GCV}}{(\text{English units})}
\]

\[
F_c = \frac{20.0(\% C)}{(\text{SI units})}
\]

\[
F_c = 321 \times 103(\% C)
\]

(i) H, C, S, N, and O are content by weight of hydrogen, carbon, sulfur, nitrogen, and oxygen (expressed as percent), respectively, as determined on the same basis as GCV by ultimate analysis of the fuel fired, using ASTM method D3178-74 or D3176 (solid fuels) or computed from results using ASTM method D1137-53(75), D1945-64(76), or D1946-77 (gaseous fuels) as applicable. (These five methods are incorporated by reference—see 60.17.)

(ii) GVC is the gross calorific value (kJ/kg, Btu/lb) of the fuel combusted determined by the ASTM test methods D2015-77 for solid fuels and D1826-77 for gaseous fuels as applicable. (These two methods are incorporated by reference—see 60.17.)

(iii) For affected facilities which fire both fossil fuels and nonfossil fuels, the F or Fc value shall be subject to the Administrator's approval.

(iv) For affected facilities firing combinations of fossil fuels or fossil fuels and wood residue, the F or Fc factors determined by paragraphs (f)(4) or (f)(5) of this section shall be prorated in accordance with the applicable formula as follows: To view Figure, TAP to this link, then press ENTER. There will be a pause while the figure-viewing software loads.

where:

\[X_i = \text{the fraction of total heat input derived from each type of fuel (e.g. natural gas, bituminous coal, wood residue, etc.)}\]

\[F_i \text{ or } F_{ci} = \text{the applicable F or Fc factor for each fuel type determined in accordance with paragraphs (f)(4) and (f)(5) of this section.}\]

\[n = \text{the number of fuels being burned in combination.}\]

(g) Excess emission and monitoring system performance reports shall be submitted to the Administrator for every calendar quarter. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. Each excess emission and MSP report shall include the information required in 60.7(c). Periods of excess emissions and monitoring systems (MS) downtime that shall be reported are defined as follows:

(1) Opacity. Excess emissions are defined as any six-minute period during which the average opacity of emissions exceeds 20 percent opacity, except that one six-minute average per hour of up to 27 percent opacity need not be reported.

(i) For sources subject to the opacity standard of 60.42(b)(1), excess emissions are defined as any six-minute period during which the average opacity of emissions exceeds 35 percent opacity, except that one six-minute average per hour of up to 42 percent opacity need not be reported.

(ii) For sources subject to the opacity standard of 60.42(b)(2), excess emissions are defined as any six-minute period during which the average opacity of emissions exceeds 32 percent opacity, except that one six-minute average per hour of...
SECTION D.  Source Level Requirements

up to 39 percent opacity need not be reported.

(iii) For sources subject to the opacity standard of 60.42(b)(3), excess emissions are defined as any six-minute period during which the average opacity of emissions exceeds 30 percent opacity, except that one six-minute average per hour of up to 37 percent opacity need not be reported.

(2) Sulfur dioxide. Excess emissions for affected facilities are defined as:

(i) Any three-hour period during which the average emissions (arithmetic average of three contiguous one-hour periods) of sulfur dioxide as measured by a continuous monitoring system exceed the applicable standard under 60.43.

(3) Nitrogen oxides. Excess emissions for affected facilities using a continuous monitoring system for measuring nitrogen oxides are defined as any three-hour period during which the average emissions (arithmetic average of three contiguous one-hour periods) exceed the applicable standards under 60.44.

VI.  WORK PRACTICE REQUIREMENTS.

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

VII.  ADDITIONAL REQUIREMENTS.

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

*** Permit Shield in Effect. ***
SECTION D. Source Level Requirements

Source ID: 034  Source Name: AUXILIARY BOILER 1
Source Capacity/Throughput: 247.700 MMbtu/hr

Conditions for this source occur in the following groups: GROUP 2
GROUP 4

---

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

*** Permit Shield in Effect. ***
SECTION D. Source Level Requirements

Source ID: 035  Source Name: AUXILIARY BOILER 2
Source Capacity/Throughput: 248.000 MM BTU/HR

Conditions for this source occur in the following groups: GROUP 2
GROUP 4

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

*** Permit Shield in Effect. ***
SECTION D. Source Level Requirements

Source ID: 036  
Source Name: AUXILIARY BOILER 3  
Source Capacity/Throughput: 248.000 MMBTU/HR

Conditions for this source occur in the following groups:  
GROUP 2  
GROUP 4

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

*** Permit Shield in Effect. ***
SECTION D.  Source Level Requirements

Source ID:  037                Source Name:  150 HP MAINTENANCE BLDG BOILER
Source Capacity/Throughput:  6,200  MMBTU/HR

Conditions for this source occur in the following groups:  GROUP 4

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

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

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

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

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

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

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

*** Permit Shield in Effect. ***
SECTION D. Source Level Requirements

Source ID: 038  Source Name: DIESEL GENERATOR 1 (3,000-BHP)

Conditions for this source occur in the following groups: GROUP 3
GROUP 4

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

*** Permit Shield in Effect. ***
SECTION D. Source Level Requirements

Source ID: 039 Source Name: DIESEL GENERATOR 2 (3,000-BHP)
Source Capacity/Throughput:

Conditions for this source occur in the following groups:
GROUP 3
GROUP 4

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

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

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

IV. RECORDKEEPING REQUIREMENTS.
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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: 040  Source Name: EIGHT DIESEL FIRE PUMPS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 4

I. RESTRICTIONS.

Emission Restriction(s).

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Particulate matter emissions from these sources shall not exceed 0.04 gr/dscf as specified in 25 Pa. Code §123.13(c)(1)(i).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO2, in the effluent gas exceeds 500 parts per million, by volume, dry basis.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>The diesel fire pumps are affected facilities for purposes of 40 CFR 63, Subpart National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines. Owner/operator shall comply with the applicable requirements of 40 CFR 63.6580 through 40 CFR 63.6675, including Tables and Appendices.</td>
</tr>
</tbody>
</table>

Operation Hours Restriction(s).

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Each of the diesel fire pumps shall operate for less than 500 hours, during any consecutive 12-month period.</td>
</tr>
</tbody>
</table>

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).
SECTION D. Source Level 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) 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: 101  Source Name: PLANT FUGITIVE DUST SOURCES

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 4

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

*** Permit Shield in Effect. ***
SECTION D. Source Level Requirements

Source ID: 102  Source Name: FORCED OXIDATION GYPSUM PLT

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 4

I. RESTRUCTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

*** Permit Shield in Effect. ***
SECTION E. Source Group Restrictions.

Group Name: GROUP 1
Group Description: Three EGU boilers
Sources included in this group

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>031</td>
<td>FOSTER WHEELER UNIT 1</td>
</tr>
<tr>
<td>032</td>
<td>FOSTER WHEELER UNIT 2</td>
</tr>
<tr>
<td>033</td>
<td>FOSTER WHEELER UNIT 3</td>
</tr>
</tbody>
</table>

I. RESTRICTIONS.

Emission Restriction(s).

# 001  [25 Pa. Code §123.11]
Combustion units
A person may not permit the emission into the outdoor atmosphere of particulate matter from a combustion unit in excess of the following:

(1) N/A

(2) N/A

(3) The rate of 0.1 pounds per million Btu of heat input when the heat input to the combustion unit in millions of Btus per hour is equal to or greater than 600.

# 002  [25 Pa. Code §123.22]
Combustion units
(a) N/A
(b) N/A
(c) N/A
(d) Allegheny County, Lower Beaver Valley, and Monongahela Valley air basins. No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO2, from any combustion unit in excess of any of the following:

(1) N/A

(2) N/A

(3) The rate of 0.6 pounds per million Btu of heat input when the heat input to the combustion unit in millions of Btus per hour is equal to or greater than 2,000.

# 003  [25 Pa. Code §127.441]
Operating permit terms and conditions.
Owner/operator may utilize petroleum coke in Units 1, 2 and 3, at a rate up to 20 percent by weight of the fuel consumed, by following the Standard Operating Procedure ("SOP") as described elsewhere in this permit.

Any rate in excess of 20 percent shall require source testing to demonstrate compliance with all applicable environmental regulations.

# 004  [25 Pa. Code §127.441]
Operating permit terms and conditions.
Units 1, 2 and 3 are affected facilities for purposes of 40 CFR 63, Subpart UUWW - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-fired Electric Steam Generating Units. Permittee shall comply with the applicable requirements of 40 CFR 63, Subpart UUWW (40 CFR 63.9980 through 63.10042, including Tables and Appendices).
SECTION E. Source Group Restrictions.

# 005 [25 Pa. Code §127.511]
Monitoring and related recordkeeping and reporting requirements.
In accordance with Plan Approval PA-04-00235D, owner/operator shall maintain records of all pertinent operating parameters that show the operational status of the SBS injection system.

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.

(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).

# 007 [40 CFR Part 68 EPA Provisions for Chemical Accident Prevention §40 CFR 68.10]
Subpart A - General
Applicability.
An owner or operator of a stationary source that has more than the threshold quantity of 29% aqueous ammonia in a process, as determined under 40 CFR 68.115, shall comply with all of the applicable requirements of 40 CFR 68 - Chemical Accident Prevention Provisions, including the Risk Management Plan requirements of 40 CFR 68, Subpart G.

# 008 [40 CFR Part 73 Sulfur Dioxide Allowance System §40 CFR 73.85]
SECTION E. Source Group Restrictions.

# 009 [40 CFR Part 73 Sulfur Dioxide Allowance System §40 CFR 73.86]
Subpart F—Energy Conservation and Renewable Energy Reserve
State regulatory autonomy.

# 010 [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 §97.222 in accordance with the deadlines specified in §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.

(1) The owners and operators, and the CAIR designated representative, of each CAIR SO2 source and each CAIR SO2 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 SO2 source with the CAIR SO2 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 SO2 source and each CAIR SO2 unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO2 allowances available for compliance deductions for the control period, as determined in accordance with §97.254(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO2 units at the source, as determined in accordance with subpart HHH of this part.

(2) A CAIR SO2 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 §97.270(b)(1),(2), or (5) and for each control period thereafter.

(3) A CAIR SO2 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 SO2 allowance was allocated.

(4) CAIR SO2 allowances shall be held in, deducted from, or transferred into or among CAIR SO2 allowance Tracking System accounts in accordance with subparts FFF, GGG, and III of this part.

(5) A CAIR SO2 allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO2 Trading...
Program. No provision of the CAIR SO2 Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §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 SO2 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 SO2 allowance to or from a CAIR SO2 source’s compliance account is incorporated automatically in any CAIR permit of the source.

(d) Excess emissions requirements.

If a CAIR SO2 source emits sulfur dioxide during any control period in excess of the CAIR SO2 emissions limitation, then:

(1) The owners and operators of the source and each CAIR SO2 unit at the source shall surrender the CAIR SO2 allowances required for deduction under §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 SO2 source and each CAIR SO2 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 §97.213 for the CAIR designated representative for the source and each CAIR SO2 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 §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 SO2 Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR SO2 Trading Program or to demonstrate compliance with the requirements of the CAIR SO2 Trading Program.

(2) The CAIR designated representative of a CAIR SO2 source and each CAIR SO2 unit at the source shall submit the reports required under the CAIR SO2 Trading Program, including those under subpart HHH of this part.

(f) Liability.

(1) Each CAIR SO2 source and each CAIR SO2 unit shall meet the requirements of the CAIR SO2 Trading Program.

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

(3) Any provision of the CAIR SO2 Trading Program that applies to a CAIR SO2 unit or the CAIR designated representative of a CAIR SO2 unit shall also apply to the owners and operators of such unit.
SECTION E. Source Group Restrictions.

(g) Effect on other authorities.

No provision of the CAIR SO2 Trading Program, a CAIR permit application, a CAIR permit, or an exemption under §97.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR SO2 source or CAIR SO2 unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

II. TESTING REQUIREMENTS.

Monitoring and related recordkeeping and reporting requirements.

Testing for emissions of filterable PM, filterable PM10, filterable PM2.5, and condensable particulate from the Units 1, 2 and 3 shall be conducted at least once every two years. Testing shall be conducted using EPA Method 5 and Method 202, or agency approved equivalent. The testing for filterable PM10, filterable PM2.5, and condensable particulate is for informational purposes only and will not be used for determination of compliance with 25 Pa Code § 123.11(a)(3) (for Units 1 and 2) and 40 CFR § 60.42. (for Unit 3).

1. All testing shall be performed while Units 1, 2 and 3 are operating at no less than 90% of the maximum rated heat input, or under such other conditions, within the capacity of the equipment, as may be requested by the Department. Soot blowing and ash removal in the boiler must be conducted at normal intervals and testing may not be scheduled to avoid such periods as they are considered to be normal operations.

2. All testing shall be conducted in accordance with any applicable federal regulations (such as New Source Performance Standards (NSPS), Subparts Da, Db, Dc, Ea, Eb, and Ec); 25 Pa. Code, Chapter 139 (relating to sampling and testing); and Revision 3.3 of the Source Testing Manual of the Department. The following federal reference methods, or other test methods approved by the Department prior to testing, shall be used.

   a. 40 CFR 60, Appendix A, Methods 1-4 shall be used to determine the volumetric flow rate.

   b. 40 CFR 60, Appendix A, Method 5 shall be used to determine the particulate matter (FPM) emission concentration (grains/dscf) and particulate emission rate (lbs/hour and lbs/MMBTU).

   c. 40 CFR 60, Appendix A, Method 19 shall be used to determine the particulate matter emission rate in lbs/MMBTU.

3. At least sixty (60) calendar days prior to commencing an emission testing program required by this condition, a test protocol shall be submitted to the PA DEP, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468 and the appropriate Regional Office for review and approval. The test protocol shall meet all applicable requirements specified in the Revision 3.3 of the Source Testing Manual of the Department.

4. At least fifteen (15) calendar days prior to commencing an emission testing program required by this permit, written notification of the date and time of testing shall be provided to the appropriate Regional Office and to the Department of Environmental Protection, Bureau of Air Quality, Division of Source Testing and Monitoring. The notification and the testing shall not be made without prior receipt of a protocol acceptance letter from the Department. The Department is under no obligation to accept the results of any testing performed without adequate advance written notice to the Department of such testing.

5. The following process parameters shall be recorded at 15-minute intervals during each test run (if possible). This data (including the units) and a summary thereof, averaged over each test run, must be included in the test report. Any exceptions to this recordkeeping requirement shall receive prior approval from the Department.

   a. Heat input rate of coal [MMBTU/hour]
   b. Coal feed rate to the boiler [tons/hour]
   c. Steam flow [lbs/hour]
   d. Steam temperature [°F]
   e. Steam pressure [psig]
SECTION E. Source Group Restrictions.

f. Soot blowing and/or ash removal (Yes/No)
g. Oxygen level at the economizer [%]
h. ESP - Secondary voltage of individual buss sections [Volts]
i. ESP - Secondary current of individual buss sections [milliamps]
j. ESP - Spark rate of individual buss sections [sparks/second]
k. Scrubber liquor flow rate [gpm]
l. Speed of draft fans [rpm]
m. Output of powered electrical generator [MW]
n. Sodium bisulfite system operating parameters

6. Within fifteen (15) calendar days after completion of the on-site testing portion of an emission test program, an electronic mail notification shall be sent to the PADEP, Bureau of Air Quality, Division of Source Testing and Monitoring at RA-epstacktesting@state.pa.us and the appropriate Regional Office indicating the completion date of the on-site testing.

7. A complete test report shall be submitted to the Department no later than sixty (60) calendar days after completion of the on-site testing portion of an emission test program.

8. 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:

   a. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings;
   b. Permit number(s) and condition(s) which are the basis for the evaluation;
   c. Summary of results with respect to each applicable permit condition; and
   d. Statement of compliance or non-compliance with each applicable requirement.

9. All submittals shall meet all applicable requirements specified in Revision 3.3, or successor volume, of the Source Testing Manual of the Department.

10. All submittals, besides notifications, shall be accomplished through PSIMS® Online available through https://www.depgreenport.state.pa.us/ecom/Login.jsp when it becomes available. If Internet submittal cannot be accomplished, one copy of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, Bureau of Air Quality, Division of Source Testing and Monitoring, with deadlines verified through document postmarks. In a like manner, one copy of the submittal shall be sent to the appropriate Regional Office.

11. The owner or operator shall ensure all federal reporting requirements contained in the applicable federal requirements 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.

12. Alternative methodology may also be used, subject to Department approval.

Monitoring and related recordkeeping and reporting requirements.
Method 9 visible emission observations shall be taken during all Method 5 testing of Units 1, 2 and 3.

# 013  [25 Pa. Code §139.102]
References.
The following are references of this subchapter:


SECTION E. Source Group Restrictions.


III. MONITORING REQUIREMENTS.


(a) This section applies to the following:

(1) Combustions units specified in 25 Pa. Code Sections 123.22(a)(4), (b)(4), (c)(4) or (e)(5) (relating to combustion units).

(2) Fossil fuel – fired steam generators of greater than 250 million Btus per hour of heat input which has installed sulfur dioxide pollutant control equipment.

(3) Sulfuric acid plants of greater than 300 tons per day production capacity, the production being expressed as 100% acid.

(b) A source subject to this section shall install, operate and maintain continuous SO2 monitoring systems in compliance with Chapter 139 Subchapter C (relating to requirements of continuous in-stack monitoring for stationary sources). Results of emission monitoring shall be submitted to the Department on a regular basis in compliance with Chapter 139, Subchapter C.

(c) Continuous SO2 monitoring systems installed under this section shall meet the minimum data availability requirements in Chapter 139, Subchapter C.

(d) The following are alternative monitoring systems:

(1) The Department will allow sources specified in subsection (a)(1) to utilize sulfur-in-fuel sampling programs in lieu of the requirements of subsection (b). These programs shall meet the requirements of Chapter 139, Subchapter C.

(2) 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. The Department will require an exempted source to fulfill alternative emission monitoring and reporting requirements.

(e) The Department may use the data from the SO2 monitoring devices or from the alternative monitoring systems required by this section to enforce the emission limitations for SO2 defined in this article.

(f) Compliance with this section shall be obtained no later than 18 months after the effective date of the listing of any source identified in subsection (a). The Department may grant orders providing 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.

(g) The Department may use the data from the SO2 monitoring systems or from the alternative monitoring systems required by this section to determine compliance with the applicable emission limitations for SO2 established in this article.


In accordance with 25 Pa. Code Section 123.46(c), the Department exempts Units 1, 2 and 3 from the opacity monitoring requirements of 25 Pa. Code Section 123.46(b).
SECTION E. Source Group Restrictions.

# 017 [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.

# 018 [25 Pa. Code §127.441]
Operating permit terms and conditions.
The Owner/Operator shall measure Visible Emissions for at least 1 hour during each calendar week, unless atmospheric conditions make such readings impossible, in which case, documentation of atmospheric conditions shall be maintained. If atmospheric conditions make such readings impossible on one day, attempts shall continue to be made on each subsequent day, until such readings are possible. Records of all Visible Emission readings and atmospheric conditions that make such readings impossible shall be maintained for 5 years and shall be made available to the Department upon request.

# 019 [25 Pa. Code §127.441]
Operating permit terms and conditions.
In accordance with a Consent Order and Agreement entered into on February 28, 2008 between FirstEnergy and the Department, the owner/operator shall install, certify, operate and maintain particulate matter CEMS on the exhausts from Units 1, 2 and 3 to demonstrate compliance with the particulate emission rate identified under the requirements of 25 PA Code 123.11 (0.1 lb/mmBtu for Units 1 and 2) or 40 CFR 60.42 (0.10 lb/mmBtu for Unit 3).

# 020 [40 CFR Part 75 Continuous Emission Monitoring §40 CFR 75.10]
Subpart B—Monitoring Provisions
General operating requirements.

# 021 [40 CFR Part 75 Continuous Emission Monitoring §40 CFR 75.12]
Subpart B—Monitoring Provisions
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# 033 [40 CFR Part 75 Continuous Emission Monitoring §40 CFR 75.63]
Subpart G—Reporting Requirements
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# 034 [40 CFR Part 75 Continuous Emission Monitoring §40 CFR 75.64]
Subpart G—Reporting Requirements
Quarterly reports.

VI. WORK PRACTICE REQUIREMENTS.

# 035 [25 Pa. Code §127.441]
Operating permit terms and conditions.
A Standard Operating Procedure shall be created to ensure compliance with the Plant's Title V Permit requirement that limits the amount of Petroleum Coke (Pet coke) blended with coals to 20%, by weight.

(a) All Pet coke will be blended with coals by weight. Pet coke will be segregated from other fuels upon receipt at the Plant and fed at 20%, by weight, into the bunkers used to supply fuel to Units 1, 2, and 3.

(b) The main feed belts (19 and 20) to the bunkers provide 100% of the fuel being fed to the units. When Pet coke is to be used it shall be transported to the bunkers through a conveyor, which shall be set to run at 20%, by weight or less, of the total fuel running on the main feed belts.

(c) If any belt feeding coals at a rate of 80%, or more, of the total fuel, by weight, trips, the conveyor transporting Pet coke shall be shutdown immediately by the Crusher House Operator, to avoid exceeding the 20%, by weight, limitation of Pet coke. At NO TIME is it permissible to run a conveyor of Pet coke to the bunkers, without simultaneously running conveyors to the bunkers with coals representing 80%, or more of the fuel (by weight).

(d) Records will be maintained in the Yard Department accounting for the blending and movement of the Pet coke and Coals to the bunkers.

(e) If the plant purchases a pre-blended coal/petroleum coke mixture for use as a fuel for Units 1, 2, and 3, the Plant shall insure that the pre-blended mixture contains no more than 20% petroleum coke, by weight. Upon receipt of each shipment of the pre-blended mixture, the Plant shall require written certification from the supplier that the pre-blended mixture contains no more than 20% petroleum coke, by weight. Written supplier certifications from each shipment of pre-blended mixture shall be maintained in the Yard Department accounting office.

Monitoring and related recordkeeping and reporting requirements.
In accordance with Plan Approval PA-04-00235D, owner/operator shall, at all times, operate the sodium bisulfite injection system (SBS) in a manner that ensures compliance with the visible emissions limits established herein. Owner/operator shall notify the Department when SBS system is shut down due to malfunctions or maintenance. The operation of the SBS injection system shall be permanently discontinued only with written Departmental permission.

# 037 [25 Pa. Code §127.511]
Monitoring and related recordkeeping and reporting requirements.
In accordance with Plan Approval PA-04-00235D, owner/operator shall install, calibrate, operate and maintain equipment sufficient to monitor the status of the SBS injection system. Volumetric flow rate, pH, and density of concentrated SBS solution, volumetric flow rate of dilution water, unit load, SCR in operation or not, and inlet SO2 concentration upstream of the SBS injection point shall be monitored and recorded.

# 038 [25 Pa. Code §127.511]
Monitoring and related recordkeeping and reporting requirements.
As required in Plan Approval PA-04-00235D, owner/operator shall maintain records sufficient to determine the correlation between opacity, emission rate of SO3, emission rate of H2SO4, and injection rate of SBS solution.
SECTION E. Source Group Restrictions.

#039  [40 CFR Part 75 Continuous Emission Monitoring §40 CFR 75.20]
Subpart C--Operation and Maintenance Requirements
Certification and recertification procedures.

#040  [40 CFR Part 75 Continuous Emission Monitoring §40 CFR 75.21]
Subpart C--Operation and Maintenance Requirements
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#041  [40 CFR Part 75 Continuous Emission Monitoring §40 CFR 75.23]
Subpart C--Operation and Maintenance Requirements
Alternatives to standards incorporated by reference.

#042  [40 CFR Part 75 Continuous Emission Monitoring §40 CFR 75.24]
Subpart C--Operation and Maintenance Requirements
Out-of-control periods.

VII. ADDITIONAL REQUIREMENTS.

#043  [25 Pa. Code §129.96]
Applicability
(a) The NOx requirements of this section and § 129.97-129.100 apply Statewide to the owner and operator of a major NOx emitting facility and the VOC requirements of this section and § 129.97-129.100 apply Statewide to the owner and operator of a major VOC emitting facility that were in existence on or before July 20, 2012, for which a requirement or emission limitation, or both, has not been established in § 129.51-129.52c, 129.54-129.69, 129.71-129.73, 129.75, 129.77, 129.101-129.107 and 129.301-129.310.

(b) - (d) N/A.

#044  [25 Pa. Code §129.97]
Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.
(a) The owner and operator of a source listed in one or more of subsections (b) - (h) located at a major NOx emitting facility or major VOC emitting facility subject to § 129.96 (relating to applicability) shall comply with the applicable presumptive RACT requirement or RACT emission limitation, or both, beginning with the specified compliance date as follows, ....

(1) January 1, 2017, for a source subject to § 129.96(a).

(2) N/A.

(b) The owner and operator of a source specified in this subsection, which is located at a major NOx emitting facility or major VOC emitting facility subject to § 129.96 shall comply with the following:

(1) N/A.

(2) The owner or operator of a combustion unit with an oxygen trim system that maintains an optimum air-to-fuel ratio that would otherwise be subject to a biennial tune-up shall conduct a tune-up of the boiler one time in each 5-year calendar period. The tune-up must include, at a minimum, the following:

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

(ii) Inspection of the flame pattern and adjustment of the burner, as necessary, to optimize the flame pattern to minimize total emissions of NOx and, to the extent possible, emissions of CO.

(iii) Inspection and adjustment, as necessary, of the air-to-fuel ratio control system to ensure proper calibration and operation as specified by the manufacturer.
SECTION E. Source Group Restrictions.

(3) The applicable recordkeeping requirements of § 129.100(d), (e) or (f) (relating to compliance demonstration and recordkeeping requirements).

(c) N/A.

(d) - (f) N/A.

(g) Except as specified under subsection (c), the owner and operator of a NOx air contamination source specified in this subsection, which is located at a major NOx emitting facility or a VOC air contamination source specified in this subsection, which is located at a major VOC emitting facility subject to § 129.96 may not cause, allow or permit NOx or VOCs to be emitted from the air contamination source in excess of the applicable presumptive RACT emission limitation:

(1) A combustion unit or process heater:

  (i) - (v) N/A.

  (vi) For a coal-fired combustion unit with a rated heat input equal to or greater than 250 million Btu/hour that is:

     (A) - (B) N/A.

     (C) Any other type of coal-fired combustion unit, 0.40 lb NOx/million Btu heat input.

     (vii) N/A.

     (viii) For a coal-fired combustion unit with a selective catalytic reduction system operating with an inlet temperature equal to or greater than 600°F, 0.12 lb NOx/million Btu heat input. Compliance with this emission limit is also required when bypassing the selective catalytic reduction system.

     (ix) N/A.

(2) - (4) N/A.

(h) N/A.

(i) The requirements and emission limitations of this section supplement the requirements and emission limitations of a RACT permit issued to the owner or operator of an air contamination source subject to one or more of subsections (b)-(h) prior to April 23, 2016, under §§ 129.91-129.95 (relating to stationary sources of NOx and VOCs) to control, reduce or minimize NOx emissions or VOC emissions, or both, from the air contamination source unless the permit contains more stringent requirements or emission limitations, or both.

(j) - (m) N/A.

The three, coal-fired boilers, Foster Wheeler Units 1, 2, and 3, (Source IDs 031, 032, and 033) have selective catalytic reduction systems. These units comply with presumptive RACT II emission limitations for NOx. Emissions of NOx, expressed as NO2, from these three boilers are limited to a maximum of 0.12 lb/million Btu heat input, when the inlet of the SCR is at a temperature greater than, or equal to 600 Degrees F (§§ (g)(1)(viii)). NOx emissions are limited to a maximum of 0.40 lb/million Btu heat input when the SCR inlet temperature is lower (§§ (g)(1)(vi)(C)). Per § 129.98, NOx emissions can be averaged across the three units.

The Department conducted a case by case analysis for control of VOC emissions from these boilers, as required by RACT. On October 20, 1994, it concluded that there was no technology for VOC control that was reasonably available considering technological and economic feasibility. The Department has reviewed this analysis at the time of this permit modification (October 2016), and concluded that there is, still, no technology for VOC control, that is reasonably available.

# 045 [25 Pa. Code §129.98]

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

(a) The owner or operator of a major NOx emitting facility subject to § 129.96 (relating to applicability) that includes at least
one air contamination source subject to a NOx RACT emission limitation in § 129.97 (relating to presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule) that cannot meet the applicable NOx RACT emission limitation may elect to meet the applicable NOx RACT emission limitation in § 129.97 by averaging NOx emissions on either a facility-wide or system-wide basis using a 30-day rolling average. System-wide emissions averaging must be among sources under common control of the same owner or operator within the same ozone nonattainment area in this Commonwealth.

(b) The owner or operator of each facility that elects to comply with subsection (a) shall submit a written NOx emissions averaging plan to the Department or appropriate approved local air pollution control agency as part of an application for an operating permit modification or a plan approval, if otherwise required. The application incorporating the requirements of this section shall be submitted by the applicable date as follows:

(1) October 24, 2016, for a source subject to § 129.96(a).

(2) October 24, 2016, or 6 months after the date that the source meets the definition of a major NOx emitting facility, whichever is later, for a source subject to § 129.96(b).

(c) Each NOx air contamination source included in the application for an operating permit modification or a plan approval, if otherwise required, for averaging NOx emissions on either a facility-wide or system-wide basis using a 30-day rolling average submitted under subsection (b) must be an air contamination source subject to a NOx RACT emission limitation in § 129.97.

(d) The application for the operating permit modification or the plan approval, if otherwise required, for averaging NOx emissions on either a facility-wide or system-wide basis using a 30-day rolling average submitted under subsection (b) must demonstrate that the aggregate NOx emissions emitted by the air contamination sources included in the facility-wide or system-wide NOx emissions averaging plan using a 30-day rolling average are not greater than the NOx emissions that would be emitted by the group of included sources if each source complied with the applicable NOx RACT emission limitation in § 129.97 on a source-specific basis.

(e) The owner or operator shall calculate the alternative facility-wide or system-wide NOx RACT emissions limitation using a 30-day rolling average for the air contamination sources included in the application for the operating permit modification or plan approval, if otherwise required, submitted under subsection (b) by using the following equation to sum the emissions for all of the sources included in the NOx emissions averaging plan:

\[
[S\text{um (For 1 through n) Elactual}] \times [S\text{um (For 1 through n) Elallowable}]
\]

Where:

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

\[
E\text{llowable} = \text{The allowable NOx mass emissions computed using the allowable emission rate limitations for air contamination source } i \text{ on a 30-day rolling basis specified in § 129.97. If an air contamination source included in an averaging plan is subject to a numerical emission rate limit that is more stringent than the applicable allowable emission rate limitation in § 129.97, then the numerical emission rate limit shall be used for the calculation of the allowable NOx mass emissions.}
\]

\[
n = \text{The number of air contamination sources included in the NOx emissions averaging plan.}
\]

(f) The application for the operating permit modification or a plan approval, if otherwise required, specified in subsections (b) - (e) may include facility-wide or system-wide NOx emissions averaging using a 30-day rolling average only for NOx emitting sources or NOx emitting facilities that are owned or operated by the applicant.

(g) The application for the operating permit modification or a plan approval, if otherwise required, specified in subsections (b) - (f) must include the following information:

(1) Identification of each air contamination source included in the NOx emissions averaging plan.
SECTION E. Source Group Restrictions.

(2) Each air contamination source’s applicable emission limitation in § 129.97.

(3) Methods for demonstrating compliance and recordkeeping and reporting requirements in accordance with § 129.100 (relating to compliance demonstration and recordkeeping requirements) for each source included in the NOx emissions averaging plan submitted under subsection (b).

(h) An air contamination source or facility included in the facility-wide or system-wide NOx emissions averaging plan submitted in accordance with subsections (b) - (g) may be included in only one facility-wide or system-wide NOx emissions averaging plan.

(i) The Department or appropriate approved local air pollution control agency will issue a modification to the operating permit or a plan approval authorizing the NOx emissions averaging plan.

(j) The owner or operator of an air contamination source or facility included in the facility-wide or system-wide NOx emissions averaging plan submitted in accordance with subsections (b) - (h) shall submit the reports and records specified in subsection (g)(3) to the Department or appropriate approved local air pollution control agency on the schedule specified in subsection (g)(3) to demonstrate compliance with § 129.100.

(k) The owner or operator of an air contamination source or facility included in a facility-wide or system-wide NOx emissions averaging plan submitted in accordance with subsections (b) - (h) that achieves emission reductions in accordance with other emission limitations required under the act or the Clean Air Act, or regulations adopted under the act or the Clean Air Act, that are not NOx RACT emission limitations may not substitute those emission reductions for the emission reductions required by the facility-wide or system-wide NOx emissions averaging plan submitted to the Department or appropriate approved local air pollution control agency under subsection (b).

(l) The owner or operator of an air contamination source subject to a NOx RACT emission limitation in § 129.97 that is not included in a facility-wide or system-wide NOx emissions averaging plan submitted under subsection (b) shall operate the source in compliance with the applicable NOx RACT emission limitation in § 129.97.

(m) The owner and operator of the air contamination sources included in a facility-wide or system-wide NOx emissions averaging plan submitted under subsection (b) shall be liable for a violation of an applicable NOx RACT emission limitation at each source included in the NOx emissions averaging plan.

[The owner/operator of the Bruce Mansfield Plant submitted an averaging plan on September 14, 2016, that complies with the requirements of this section. It requires that NOx emissions from the three EUGs, Foster Wheeler Units 1, 2, and 3 (Source IDs 031, 032, and 033) at the plant be averaged in accordance with the requirements of this condition.]

# 046 [25 Pa. Code §129.100]
Compliance demonstration and recordkeeping requirements.

(a) Except as provided in subsection (c), the owner and operator of an air contamination source subject to a NOx requirement or RACT emission limitation or VOC requirement or RACT emission limitation, or both, listed in § 129.97 (relating to presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule) shall demonstrate compliance with the applicable RACT requirement or RACT emission limitation by performing the following monitoring or testing procedures:

(1) For an air contamination source with a CEMS, monitoring and testing in accordance with the requirements of Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources) using a 30-day rolling average, except municipal waste combustors.

(i) A 30-day rolling average emission rate for an air contamination source that is a combustion unit shall be expressed in pounds per million Btu and calculated in accordance with the following procedure:

(A) Sum the total pounds of pollutant emitted from the combustion unit for the current operating day and the previous 29 operating days.

(B) Sum the total heat input to the combustion unit in million Btu for the current operating day and the previous 29 operating days.
(C) Divide the total number of pounds of pollutant emitted by the combustion unit for the 30 operating days by the total heat input to the combustion unit for the 30 operating days.

(ii) A 30-day rolling average emission rate for each applicable RACT emission limitation shall be calculated for an affected air contamination source for each consecutive operating day.

(iii) Each 30-day rolling average emission rate for an affected air contamination source must include the emissions that occur during the entire operating day, including emissions from start-ups, shutdowns and malfunctions.

(2) - (4) N/A.

(b) Except as provided in § 129.97(k) and § 129.99(i) (relating to alternative RACT proposal and petition for alternative compliance schedule), the owner and operator of an air contamination source subject to subsection (a) shall demonstrate compliance with the applicable RACT requirement or RACT emission limitation in accordance with the procedures in subsection (a) not later than:

(1) January 1, 2017, for a source subject to § 129.96(a) (relating to applicability).

(2) N/A.

(c) N/A.

(d) The owner and operator of an air contamination source subject to this section and §§ 129.96 - 129.99 shall keep records to demonstrate compliance with §§ 129.96 - 129.99 in the following manner:

(1) The records must include sufficient data and calculations to demonstrate that the requirements of §§ 129.96 - 129.99 are met.

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

(e) Beginning with the compliance date specified in § 129.97(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable NOx emission rate threshold specified in § 129.99(b) and the requirements of § 129.97 based on the air contamination source's potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.

(f) Beginning with the compliance date specified in § 129.97(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable VOC emission rate threshold specified in § 129.99(c) and the requirements of § 129.97 based on the air contamination source's potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.

(g) The owner or operator of a combustion unit subject to § 129.97(b) shall record each adjustment conducted under the procedures in § 129.97(b). This record must contain, at a minimum:

(1) The date of the tuning procedure.

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

(3) The final operating rate or load.

(4) The final NOx and CO emission rates.

(5) The final excess oxygen rate.

(6) Other information required by the applicable operating permit.
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(h) N/A.

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

[The owner/operator of the Bruce Mansfield Plant submitted a plan on September 14, 2016, that complies with the requirements of this section.]

# 047 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

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

40 CFR Part 72  Permit Regulation
40 CFR Part 73  Sulfur Dioxide Allowance System
40 CFR Part 75  Continuous Emission Monitoring
40 CFR Part 76  Nitrogen Oxides Emission Reduction Program
40 CFR Part 77  Excess Emissions

# 048 [25 Pa. Code §139.101]

**General requirements.**

This section applies to monitoring systems as defined in the manual referenced at 139.102(3) (relating to references), installations required or approved under Chapters 122, 124, 127 and 129 or in an order issued under section 4 of the act (35 P. S. 4004).

(1) The submittal procedures specified in the publication entitled "Continuous Source Monitoring Manual," available from the Department shall be utilized to obtain Department approval. This publication includes:

   (i) Installation requirements.

   (ii) Performance specifications.

   (iii) Test procedures.

   (iv) Reporting requirements.

   (v) Quality assurance requirements.

   (vi) Administrative procedures for obtaining Department approval.

(2) The monitoring system installation, certification and operation shall be conducted under the direct supervision of persons qualified by training and experience.

(3) The monitoring systems may be designed to monitor source emissions or stack emissions if the representativeness of emissions can be verified. The method of conversion of monitoring results to source or stack emissions shall be approved by the Department.

(4) The location of monitoring devices shall be approved by the Department prior to installation. The selection of the monitoring location shall utilize applicable criteria in the manual referenced in 139.102(3). The Department has the authority to determine which of the criteria are applicable. The representativeness of the measurements at the chosen monitoring location shall be verified.

(5) The owner of a monitored source shall maintain records containing monitoring information and report data to the Department as specified in the manual referenced in 139.102(3). The records shall be maintained for 5 years and be available for inspection by Department personnel.
SECTION E. Source Group Restrictions.

(6) The owner of a monitored source shall provide permanent sampling facilities as specified in 139.1 (relating to sampling facilities) to permit verification testing by the Department. For extractive monitors, calibration gas inlets shall be available as near as possible to the monitor probe inlet to permit the Department to verify calibration of the monitoring system. Facilities shall be approved by the Department prior to construction.

(7) Verification testing for monitoring systems shall be in accordance with Subchapter B (relating to monitoring duties of certain sources), and of the manual referenced in 139.102(3).

(8) A quality assurance program shall be established and maintained by the owner of the monitored source. This program shall be in accordance with the criteria in the sources listed in 139.102.

(9) The Department's approval will be based on the criteria specified in the manual referenced in 139.102(3). Failure to utilize the specified procedures or to conduct the quality assurance program could result in denying or rescinding the Department's approval.

(10) The owner of a monitored source shall notify the Department when the monitoring system is inoperative for more than 1 hour during an air pollution episode as specified in Chapter 137 (relating to air pollution episodes). The notice shall be given within 2 hours of the malfunction.

(11) Manual sampling conducted under Subchapter B may be required if the Department determines that the monitoring system data is not accurate or that the owner of the monitored source does not conduct the quality assurance program specified in the manual referenced in 139.102(3).

(12) Required monitoring shall meet at least one of the following minimum data availability requirements unless other data availability requirements are stipulated elsewhere in this title, in a plan approval or permit condition under Chapter 127 (relating to construction, modification, reactivation and operation of sources), or in an order issued under section 4 of the act. For purposes of calculating data availability, "process down" time, as specified in the manual referenced in 139.102(3), shall be considered valid time.

(i) In each calendar month, at least 90% of the time periods for which an emission standard or an operational parameter applies shall be valid as set forth in the quality assurance section of the manual referenced in 139.102(3).

(ii) In each calendar quarter, at least 95% of the hours during which the monitored source is operating shall be valid as set forth in the quality assurance section of the manual referenced in 139.102(3).

(13) The monitor results shall be expressed in terms of the applicable standard or criteria required. The method used to convert monitor data shall be approved by the Department.

(14) Monitoring systems shall comply with the applicable performance specifications section of the manual referenced in 139.102(3). The Department has the authority to determine which of the performance specifications are applicable.

(15) Verification of calibration standards shall be conducted in accordance with the applicable sampling methods in the Department's "Source Testing Manual" or as otherwise approved by the Department. The "Source Testing Manual" may be obtained from the Department.

(16) The requirements of this section apply to monitoring to demonstrate compliance with emissions standards and process operational parameter criteria.

# 049 [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.
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(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.

Emission reduction credit provisions.

(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.

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 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.
SECTION E. Source Group Restrictions.

(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 SO2 requirements, and that commenced operation prior to January 1, 2000, but did not receive an allocation of SO2 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 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:

\[ AA = \left[ EA \times (0.013 \times BNA) \right] / TRA \]

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.

(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.

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).

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:
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(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 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 (i) 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 Btu) 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
SECTION E. Source Group Restrictions.

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 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.

# 054 [40 CFR Part 72 Regulations on Permits §40 CFR 72.1]
Subpart A--Acid Rain Program General Provisions
Purpose and scope.

# 055 [40 CFR Part 72 Regulations on Permits §40 CFR 72.3]
Subpart A--Acid Rain Program General Provisions
Measurements, abbreviations, and acronyms.

# 056 [40 CFR Part 72 Regulations on Permits §40 CFR 72.4]
Subpart A--Acid Rain Program General Provisions
Federal authority.
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### SECTION E. Source Group Restrictions.

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## SECTION E. Source Group Restrictions.

| # 082 | [40 CFR Part 73 Sulfur Dioxide Allowance System §40 CFR 73.77] Subpart E–Auctions, Direct Sales, and Independent Power Producers Written Guarantee Relationship of the independent power producers written guarantee to the direct sale account.
SECTION E. Source Group Restrictions.

# 093  [40 CFR Part 75 Continuous Emission Monitoring §40 CFR 75.5]
Subpart A—General
Prohibitions.

# 094  [40 CFR Part 75 Continuous Emission Monitoring §40 CFR 75.6]
Subpart A—General
Incorporation by reference.

# 095  [40 CFR Part 75 Continuous Emission Monitoring §40 CFR 75.7]
Subpart A—General
EPA Study.

# 096  [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 §97.122 in accordance with the deadlines specified in §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 CC 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.

(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 §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 §97.170(b)(1), (2), or (5) and for each control period thereafter.
SECTION E.  Source Group Restrictions.

(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 §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 §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 §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 §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.

(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
SECTION E. Source Group Restrictions.

A 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 §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.

*** Permit Shield in Effect. ***
SECTION E. Source Group Restrictions.

Group Name: GROUP 2  
Group Description: Three Auxiliary Boilers  
Sources included in this group

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<td>035</td>
<td>AUXILIARY BOILER 2</td>
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<tr>
<td>036</td>
<td>AUXILIARY BOILER 3</td>
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I. RESTRICTIONS.

Emission Restriction(s).

# 001  [25 Pa. Code §123.11]  
Combustion units  
(a) A person may not permit the emission into the outdoor atmosphere of particulate matter from a combustion unit in excess of the following:

(1) N/A

(2) The rate determined by the following formula:

\[ A = 3.6E^{(-0.56)} \]

where

\( A \) = Allowable emissions in pounds per million BTUs of heat input, and

\( E \) = Heat input to the combustion unit in millions of BTUs per hour.

when \( E \) is equal to or greater than 50 but less than 600.

# 002  [25 Pa. Code §123.22]  
Combustion units  
(a) N/A

(b) N/A

(c) N/A

(d) Allegheny County, Lower Beaver Valley, and Monongahela Valley air basins. No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO2, from any combustion unit in excess of any of the following:

(1) The rate of one pound per million Btu of heat input, when the heat input to the combustion unit in millions of Btus per hour is greater than 2.5 but less than 50.

(2) The rate determined by the following formula: \( A = 1.7E^{(-0.14)} \), where: \( A \) = allowable emissions in pounds per million Btu of heat input, and \( E \) = Heat input to the combustion unit in millions of Btus per hours when \( E \) is equal to or greater than 50 but less than 2,000.

(3) The rate of 0.6 pounds per million Btu of heat input when the heat input to the combustion unit in millions of Btus per hour is equal to or greater than 2,000.

# 003  [25 Pa. Code §123.41]  
Limitations  
A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:
SECTION E. Source Group Restrictions.

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

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

# 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Boilers are affected facilities for purposes of 40 CFR 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters. Permittee shall comply with the applicable requirements of 40 CFR 63, Subpart DDDDD (40 CFR 63.7480 through 63.7575, including Tables and Appendices).

Operation Hours Restriction(s).

# 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Utilization of each of Auxiliary Boilers 1, 2, and 3 (Source IDs 034, 035, and 036) shall be limited to less than 5%, over any consecutive 12-month period, updated monthly.

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.

# 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Permittee shall keep data that clearly demonstrates that the auxiliary boilers' annual capacity factors are less than 5 percent. This shall include:

(1) Hours of operation,
(2) Amount of fuel utilized.

# 007 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The Owner/Operator shall maintain records of operating hours and annual fuel consumption. These records shall be maintained on file for not less than five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

# 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

At a minimum, the Owner/Operator shall verify particulate matter emission rates using the most recent AP-42 emission factors and fuel usage records.

# 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

At a minimum, the Owner/Operator shall verify SO2 emission rates using the most recent AP-42 emission factors and fuel usage records.
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).

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: GROUP 3
Group Description: Two diesel generators

Sources included in this group

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<tr>
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<td>DIESEL GENERATOR 2 (3,000-BHP)</td>
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I. RESTRICTIONS.

Emission Restriction(s).

# 001  [25 Pa. Code §123.13]
Processes
Particulate matter emissions into the outdoor atmosphere from this source shall not exceed 0.04 gr/dscf as specified in 25 Pa. Code Section 123.13(c)(1)(i).

# 002  [25 Pa. Code §123.21]
General
The owner/operator shall not permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO2, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

# 003  [25 Pa. Code §127.441]
Operating permit terms and conditions.
The diesel generators are affected facilities for purposes of 40 CFR 63, Subpart ZZZZ - National Emission Standards for Reciprocating Internal Combustion Engines. Owner/operator shall comply with the applicable requirements of 40 CFR 63.6580 through 40 CFR 63.6675, including Tables and Appendices.

Operation Hours Restriction(s).

# 004  [25 Pa. Code §129.97]
Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.
Each of the diesel generators shall operate for less than 500 hours, during any consecutive 12-month period.

II. TESTING REQUIREMENTS.

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

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.

# 005  [25 Pa. Code §127.511]
Monitoring and related recordkeeping and reporting requirements.
The owner/operator shall maintain records of the diesel generators' operating hours and annual fuel consumption. These records shall be maintained on file for not less than five (5) years and shall be made available to the Deptment upon request.

# 006  [25 Pa. Code §129.95]
Recordkeeping
(a) The owner and operator of a major NOx emitting facility or a major VOCs emitting facility shall keep records to
SECTION E. Source Group Restrictions.

demonstrate compliance with 129.91 -- 129.94.

(b) The records shall provide sufficient data and calculations to clearly demonstrate that the requirements of 129.91 -- 129.94 are met.

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

(d) The records shall be retained for at least 25 years and shall be made available to the Department on request.

(e) An owner or operator claiming that a facility is exempt from the RACT requirements of 129.91 -- 129.94, based on the facility's potential to emit, shall maintain records that clearly demonstrate to the Department that the facility or source is not subject to 129.91 -- 129.94.

V. REPORTING REQUIREMENTS.

# 007 [25 Pa. Code §127.441]
Operating permit terms and conditions.
At a minimum, the Owner/Operator shall verify particulate matter emission rates from the diesel generators using the most recent AP-42 emission factors and fuel usage records.

# 008 [25 Pa. Code §127.441]
Operating permit terms and conditions.
At a minimum, the Owner/Operator shall verify SO2 emission rates from the diesel generators using the most recent AP-42 emission factors and fuel usage records.

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: GROUP 4
Group Description: RACT II Requirements for Non-EGU Sources

Sources included in this group

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<td>AUXILIARY BOILER 2</td>
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<tr>
<td>036</td>
<td>AUXILIARY BOILER 3</td>
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<td>037</td>
<td>150 HP MAINTENANCE BLDG BOILER</td>
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<td>038</td>
<td>DIESEL GENERATOR 1 (3,000-BHP)</td>
</tr>
<tr>
<td>039</td>
<td>DIESEL GENERATOR 2 (3,000-BHP)</td>
</tr>
<tr>
<td>040</td>
<td>EIGHT DIESEL FIRE PUMPS</td>
</tr>
<tr>
<td>101</td>
<td>PLANT FUGITIVE DUST SOURCES</td>
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<td>FORCED OXIDATION GYPSUM PLT</td>
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**I. RESTRICTIONS.**

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

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

   (a) The owner and operator of a source listed in one or more of subsections (b)-(h) located at a major NOx emitting facility or major VOC emitting facility subject to § 129.96 (relating to applicability) shall comply with the applicable presumptive RACT requirement or RACT emission limitation, or both, beginning with the specified compliance date as follows, unless an alternative compliance schedule is submitted and approved under subsections (k)-(m) or § 129.99 (relating to alternative RACT proposal and petition for alternative compliance schedule):

   (1) January 1, 2017, for a source subject to § 129.96(a).

   (2) N/A.

   (b) N/A.
SECTION E. Source Group Restrictions.

(c) The owner and operator of a source specified in this subsection, which is located at a major NOx emitting facility or major VOC emitting facility subject to § 129.96 shall install, maintain and operate the source in accordance with the manufacturer’s specifications and with good operating practices:

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

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

(3) A boiler or other combustion source with an individual rated gross heat input less than 20 million Btu/hour.

(4) N/A.

(5) A stationary internal combustion engine rated at less than 500 bhp (gross).

(6) N/A.

(7) A fuel-burning unit with an annual capacity factor of less than 5%.

(i) For a combustion unit, the annual capacity factor is the ratio of the unit’s heat input (in million Btu or equivalent units of measure) to the unit’s maximum rated hourly heat input rate (in million Btu/hour or equivalent units of measure) multiplied by 8,760 hours during a period of 12 consecutive calendar months.

(ii) N/A.

(iii) For any other unit, the annual capacity factor is the ratio of the unit’s actual operating level to the unit’s potential operating level during a period of 12 consecutive calendar months.

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

(d) - (h) N/A.

(i) The requirements and emission limitations of this section supersede the requirements and emission limitations of a RACT permit issued to the owner or operator of an air contamination source subject to one or more of subsections (b) (h) prior to April 23, 2016, under § § 129.91-129.95 (relating to stationary sources of NOx and VOCs) to control, reduce or minimize NOx emissions or VOC emissions, or both, from the air contamination source unless the permit contains more stringent requirements or emission limitations, or both.

(j) - (m) N/A.

[The three, auxiliary boilers, Auxiliary Boilers 1, 2, and 3, (Source IDs 034, 035, and 036) are each limited to a maximum annual capacity factor of less than 5%, (c)(7), and subject to the requirements of Paragraph (c) of this condition. Emissions of NOx and VOC from each of Source IDs 037, 101, and 102 are less than the values in (c)(1) and (c)(2), and these sources are also subject to the requirements of Paragraph (c). Operation of each of the internal combustion engines (Source IDs 038, 039, and 040) is limited to less than 500 hours operation, (c)(8), and therefore, these sources are also subject to the requirements of Paragraph (c).]

# 002 [25 Pa. Code §129.100]
Compliance demonstration and recordkeeping requirements.

(a) - (c) N/A.

(d) The owner and operator of an air contamination source subject to this section and § § 129.96-129.99 shall keep records to demonstrate compliance with § § 129.96-129.99 in the following manner:

(1) The records must include sufficient data and calculations to demonstrate that the requirements of § § 129.96-129.99 are met.

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

(e) N/A.

(f) Beginning with the compliance date specified in § 129.97(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable VOC emission rate threshold specified in § 129.99(c) and the requirements of § 129.97 based on the air contamination source’s potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.

(g) - (h) N/A.

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

*** Permit Shield in Effect. ***
SECTION F. Alternative Operation Requirements.

Alternative Operation Name: OPERATION WITH SCR

#001 CHANGES FROM NORMAL OPERATION

This Unit is equipped with an SCR system consisting of anhydrous ammonia storage, dilution air supply system, ammonia injection system, and a catalytic reactor. Operation of this Unit with SCR is voluntary.

Sources included in this Alternative Operation:

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>Source Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>033</td>
<td>FOSTER WHEELER UNIT 3</td>
<td>Combustion Unit</td>
</tr>
</tbody>
</table>

I. RESTRICTIONS.

Emission Restriction(s).

# 001 [25 Pa. Code §127.441]
Operating permit terms and conditions.
The emission of ammonia from the SCR system shall not exceed 5 ppmv at stack conditions.

II. TESTING REQUIREMENTS.

# 002 [25 Pa. Code §127.441]
Operating permit terms and conditions.
No less often than once every five years, the owner/operator shall conduct a stack test to demonstrate compliance with the ammonia slip limit.

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.

# 003 [25 Pa. Code §127.441]
Operating permit terms and conditions.
Owner/operator shall keep a monthly log of all ammonia delivered to this facility. These records shall be kept on site for a period of five years, and shall be made available to the Department upon request.

Alternate operating scenarios.

(a) Stationary air contamination sources may make changes at a facility to implement alternate operating scenarios identified in its permit under this section.

(b) A permit issued under this section shall contain terms and conditions for reasonably anticipated operating scenarios determined to be necessary or otherwise identified by the source in its application as approved by the Department. The terms and conditions:

   (1) Shall require the source, contemporaneously with making a change from one operating scenario to another, to record in a log at the permitted facility a record of the scenario under which it is operating at all times and may require the source to notify the Department at the time it implements the change.

   (2) Shall extend the permit shield described in 127.516 (relating to permit shield) to the terms and conditions under each operating scenario, unless precluded by the Clean Air Act or the regulations thereunder.

   (3) Shall ensure and require that the terms and conditions of each alternate scenario meet applicable requirements of the Clean Air Act, the act and the regulations thereunder.
SECTION F. Alternative Operation Requirements.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

# 005 [25 Pa. Code §127.441]
Operating permit terms and conditions.
All ammonia storage, unloading and transfer equipment shall be operated and maintained in accordance with ANSI K6.1 and 29 CFR 1910.11.

VII. ADDITIONAL REQUIREMENTS.

# 006 [25 Pa. Code §127.441]
Operating permit terms and conditions.
It is not an enforceable requirement that the SCR system operate at any given time.

*** Permit Shield in Effect. ***
SECTION F. Alternative Operation Requirements.

Alternative Operation Name: SCR OPERATION

#001 CHANGES FROM NORMAL OPERATION

This Unit is equipped with an SCR system consisting of anhydrous ammonia storage, dilution air supply system, ammonia injection system, and a catalytic reactor. Operation of this Unit with SCR is voluntary.

Sources included in this Alternative Operation:

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<thead>
<tr>
<th>ID</th>
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<th>Source Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>031</td>
<td>FOSTER WHEELER UNIT 1</td>
<td>Combustion Unit</td>
</tr>
</tbody>
</table>

I. RESTRICTIONS.

Emission Restriction(s).

# 001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The emission of ammonia from the SCR systems shall not exceed 5 ppmv at stack conditions.

II. TESTING REQUIREMENTS.

# 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No less frequently than once every five years, the owner/operator shall conduct a stack test for ammonia (as NH3) while the SCR system is in operation.

# 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Stack testing shall be conducted in accordance with the provisions of 25 PA Code Chapter 139 and the Department's Source Testing Manual.

# 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The owner/operator shall submit a pre-test protocol at least 60 days prior to the test for Departmental review. The Department shall be notified at least two weeks prior to the actual test date.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

# 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The owner/operator shall keep a monthly log of all ammonia delivered to this facility. These records shall be kept on-site for a period of five years and be made available to the Department upon request.


Alternate operating scenarios.

(a) Stationary air contamination sources may make changes at a facility to implement alternate operating scenarios identified in its permit under this section.

(b) A permit issued under this section shall contain terms and conditions for reasonably anticipated operating scenarios determined to be necessary or otherwise identified by the source in its application as approved by the Department. The terms and conditions:
SECTION F. Alternative Operation Requirements.

(1) Shall require the source, contemporaneously with making a change from one operating scenario to another, to record in a log at the permitted facility a record of the scenario under which it is operating at all times and may require the source to notify the Department at the time it implements the change.

(2) Shall extend the permit shield described in 25 Pa. Code Section 127.516 (relating to permit shield) to the terms and conditions under each operating scenario, unless precluded by the Clean Air Act or the regulations thereunder.

(3) Shall ensure and require that the terms and conditions of each alternate scenario meet applicable requirements of the Clean Air Act, the act and the regulations thereunder.

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.

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

All ammonia unloading, storage, and transfer equipment shall be operated and maintained in accordance with ANSI K6.1 and 29 CFR 1910.11.

VII. ADDITIONAL REQUIREMENTS.

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

It is not an enforceable requirement that the SCR units operate at any given time.

*** Permit Shield in Effect. ***
SECTION F. Alternative Operation Requirements.

Alternative Operation Name: SCR OPERATION

#001 CHANGES FROM NORMAL OPERATION

This Unit is equipped with an SCR system consisting of anhydrous ammonia storage, dilution air supply system, ammonia injection system, and a catalytic reactor. Operation of Unit with SCR is voluntary.

Sources included in this Alternative Operation:

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<th>ID</th>
<th>Name</th>
<th>Source Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>032</td>
<td>FOSTER WHEELER UNIT 2</td>
<td>Combustion Unit</td>
</tr>
</tbody>
</table>

I. RESTRICTIONS.

Emission Restriction(s).

# 001 [25 Pa. Code §127.441]
Operating permit terms and conditions.
The emission of ammonia from the SCR systems shall not exceed 5 ppmv at stack conditions.

II. TESTING REQUIREMENTS.

# 002 [25 Pa. Code §127.441]
Operating permit terms and conditions.
No less frequently than once every five years, the owner/operator shall conduct a stack test for ammonia (as NH3) while the SCR system is in operation.

# 003 [25 Pa. Code §127.441]
Operating permit terms and conditions.
Stack testing shall be conducted in accordance with the provisions of 25 PA Code Chapter 139 and the Department's Source Testing Manual.

# 004 [25 Pa. Code §127.441]
Operating permit terms and conditions.
The owner/operator shall submit a pre-test protocol at least 60 days prior to the test for Departmental review. The Department shall be notified at least two weeks prior to the actual test date.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

# 005 [25 Pa. Code §127.441]
Operating permit terms and conditions.
The owner/operator shall keep a monthly log of all ammonia delivered to this facility. These records shall be kept on-site for a period of five years and be made available to the Department upon request.

Alternate operating scenarios.
(a) Stationary air contamination sources may make changes at a facility to implement alternate operating scenarios identified in its permit under this section.

(b) A permit issued under this section shall contain terms and conditions for reasonably anticipated operating scenarios determined to be necessary or otherwise identified by the source in its application as approved by the Department. The terms and conditions:
SECTION F. Alternative Operation Requirements.

(1) Shall require the source, contemporaneously with making a change from one operating scenario to another, to record in a log at the permitted facility a record of the scenario under which it is operating at all times and may require the source to notify the Department at the time it implements the change.

(2) Shall extend the permit shield described in 25 Pa. Code Section 127.516 (relating to permit shield) to the terms and conditions under each operating scenario, unless precluded by the Clean Air Act or the regulations thereunder.

(3) Shall ensure and require that the terms and conditions of each alternate scenario meet applicable requirements of the Clean Air Act, the act and the regulations thereunder.

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.

# 007 [25 Pa. Code §127.441]
Operating permit terms and conditions.
All ammonia unloading, storage, and transfer equipment shall be operated and maintained in accordance with ANSI K6.1 and 29 CFR 1910.11.

VII. ADDITIONAL REQUIREMENTS.

# 008 [25 Pa. Code §127.441]
Operating permit terms and conditions.
It is not an enforceable requirement that the SCR units operate at any given time.

*** Permit Shield in Effect. ***
SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.

**Alternative Operation Emission Restriction Summary**

<table>
<thead>
<tr>
<th>Source Id</th>
<th>Source Description</th>
</tr>
</thead>
</table>


SECTION H. Miscellaneous.

1) Heat input capacities and unit schematics listed in Section A. (Site Inventory) and Section D. (Source Level Requirements) are for informational purposes and are not enforceable limits.

2) The following sources are designated as "Plant Fugitive Emissions Sources - Source ID #101" as identifies in the submitted application:
   - F01 Material Handling.
   - F02 Plant Roadways.

3) The following have been identified as insignificant sources/activities at this facility:
   - General storage tanks. (as identified in the application)
   - Ash silos. (as identified in the application)
   - Lime silos. (as identified in the application)
   - Water treatment areas. (as identified in the application)
   - General storage tanks. (HAPS)(as identified in the application)
   - Forced oxidation plant.
   - 3000 tons per hour Rail Unloader.
   - Single (11,000 gallon) storage tank containing chemicals injected to prevent re-emission of mercury from the SO2 scrubbers.

This permit was Significantly Modified on January 28, 2015, to add 25 Pa. Code 121.7 as a condition.

This permit was Administratively Amended on August 31, 2015, to change the name of the Responsible Official to James E. Graf.

This permit was changed by a Minor Modification on December 7, 2016, to:

1. Add a single (11,000 gallon) storage tank containing chemicals injected into the SO2 scrubbers, to prevent re-emission of mercury from the scrubbers, as an insignificant source.

2. Add the applicable requirements of RACT II (§ § 129.96-129.100) to the permit. The requirements superseded some of the requirements of RACT (§ § 129.91-129.95). Superseded RACT requirements were removed from the permit.

These changes were in response to two applications for Minor Permit Modification. However, they were combined to produce a single modified permit.
***** End of Report *****