



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: May 9, 2012 Effective Date: June 26, 2013
Revision Date: June 26, 2013 Expiration Date: April 30, 2017
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: 37-00023

Federal Tax Id - Plant Code: 52-2201498-3

Owner Information

Name: NRG POWER MIDWEST LP
Mailing Address: 121 CHAMPION WAY
CANONSBURG, PA 15317-5817

Plant Information

Plant: NRG POWER MIDWEST LP/NEW CASTLE POWER PLT
Location: 37 Lawrence County 37920 Taylor Township
SIC Code: 4911 Trans. & Utilities - Electric Services

Responsible Official

Name: ETHAN M. RUSSELL
Title: PLANT MANAGER
Phone: (724) 535 - 1810

Permit Contact Person

Name: LUKE BEACHLER
Title: AIR QUALITY SPECIALIST
Phone: (724) 597 - 8058

[Signature] _____
JOHN F. GUTH, NORTHWEST REGION AIR PROGRAM MANAGER



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



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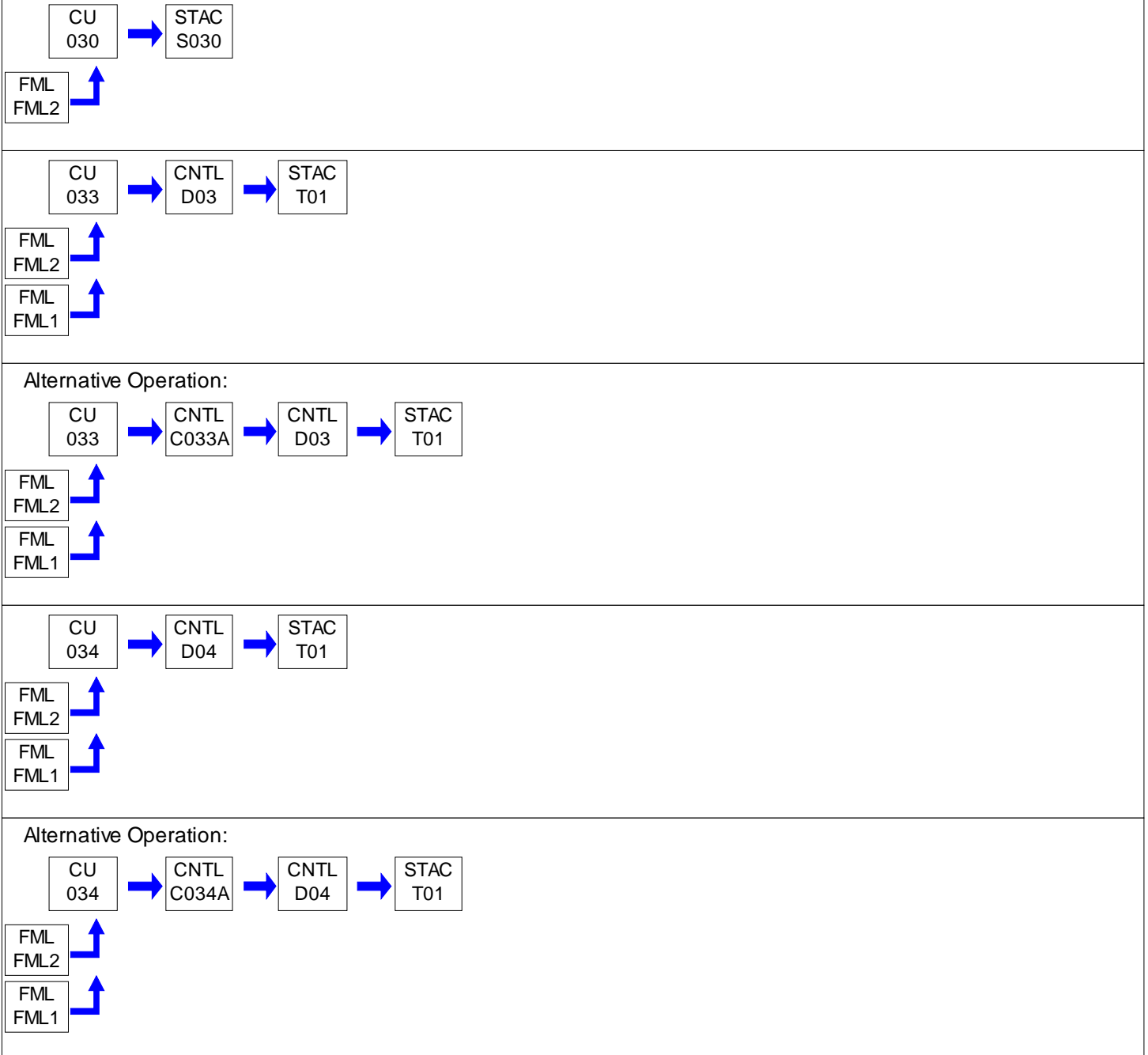
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput		Fuel/Material
030	AUXILIARY BOILER	8.200	MMBTU/HR	
		60.000	Gal/HR	DIESEL FUEL
033	BABCOCK & WILCOX - BOILER 3	1,029.000	MMBTU/HR	
		43.000	Tons/HR	COAL
		800.000	Gal/HR	#2 OIL
034	BABCOCK & WILCOX - BOILER 4	1,029.000	MMBTU/HR	
		43.000	Tons/HR	COAL
		800.000	Gal/HR	#2 OIL
035	BABCOCK & WILCOX - BOILER 5	1,325.000	MMBTU/HR	
		55.000	Tons/HR	COAL
		1,600.000	Gal/HR	#2 OIL
036	ELECTROMOTIVE DIESEL A	492.000	Gal/HR	#2 OIL
101	COAL STOCKPILE			
102	BOTTOM/FLY ASH DISPOSAL			
103	PLANT ROADWAYS			
104	FLYASH STORAGE SILOS			
106	TWO EMERGENCY DIESEL GENERATORS	2.200	Gal/HR	DIESEL FUEL
107	PARTS WASHER (REMOTE RESERVOIR COLD CLEANING MACHINE)			
C033A	SNCR FOR BOILER 3			
C034A	SNCR FOR BOILER 4			
C035A	SNCR FOR BOILER 5			
C06	500 TON SILO., BAG HOUSE 1			
C07	500-TON SILO, BAG HOUSE 2			
C08	900-TON SILO, BAG HOUSE 1			
C09	900 TON SILO, BAG HOUSE 2			
C10	LNB/SOFA FOR BOILER 3			
C11	LNB/SOFA FOR BOILER 4			
C12	LNB/SOFA FOR BOILER 5			
D03	ELECTROSTATIC PRECIPITATOR 3			
D04	ELECTROSTATIC PRECIPITATOR 4			
D05	ELECTROSTATIC PRECIPITATOR 5			
FML1	COAL, SYNFUEL AND PRB COAL PILE			
FML2	DIESEL OIL-LIGHTOFF			
FML3	EMD OIL TANKS			
S030	STACK FROM AUXILIARY BOILER			
S06	EMD STACK A			
S106	STACK FROM DIESEL GENERATORS (2)			
T01	COMMON STACK			
Z01	COAL STOCKPILE FUGITIVES			
Z02	BOTTOM/FLY ASH FUGITIVES			

SECTION A. Site Inventory List

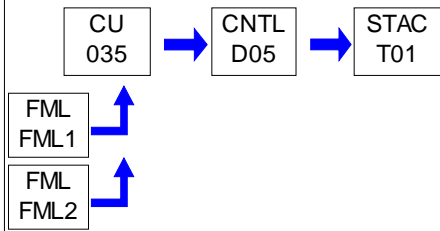
Source ID	Source Name	Capacity/Throughput	Fuel/Material
Z03	PLANT ROADWAYS FUGITIVES		
Z04	FLYASH STORAGE FUGITIVES		
Z107	FUGITIVES FROM PARTS WASHER		

PERMIT MAPS

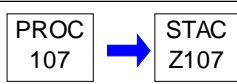
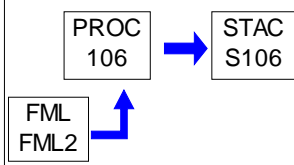
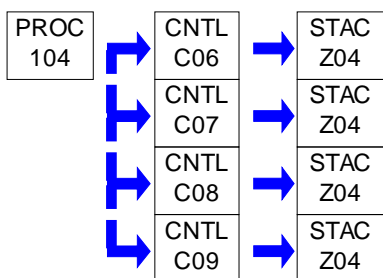
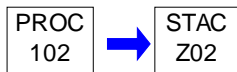
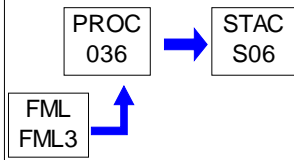
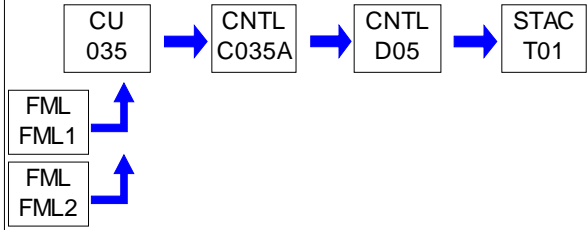




PERMIT MAPS



Alternative Operation:



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

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

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

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

#003 [25 Pa. Code § 127.446(a) and (c)]**Permit Expiration**

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

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

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

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term.

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

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

#005 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]**Transfer of Ownership or Operational Control**

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

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

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

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

**SECTION B. General Title V Requirements**

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

#006 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]**Inspection and Entry**

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

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

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

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

#007 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]**Compliance Requirements**

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

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

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

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

#008 [25 Pa. Code § 127.512(c)(2)]**Need to Halt or Reduce Activity Not a Defense**

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

**SECTION B. General Title V Requirements****#009 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]****Duty to Provide Information**

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

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

#010 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]**Reopening and Revising the Title V Permit for Cause**

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

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

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

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

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

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

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

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

#011 [25 Pa. Code § 127.543]**Reopening a Title V Permit for Cause by EPA**

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

#012 [25 Pa. Code § 127.541]**Significant Operating Permit Modifications**

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541.

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

- (a) The permittee may make minor operating permit modifications (as defined in 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.
- (b) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to an operational flexibility change authorized by 25 Pa. Code § 127.462.

#014 [25 Pa. Code § 127.450]**Administrative Operating Permit Amendments**

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

#015 [25 Pa. Code § 127.512(b)]**Severability Clause**

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

#016 [25 Pa. Code §§ 127.704, 127.705 & 127.707]**Fee Payment**

- (a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees).
- (b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.
- (c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.
- (d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).
- (e) The permittee shall pay an annual operating permit administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.
- (f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

of the following:

- (1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (b)(4) and (5) of this permit condition.
- (2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.
- (3) Violate any applicable requirement of the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.
- (e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) applies to de minimis emission increases and the installation of minor sources made pursuant to this permit condition.
- (f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.
- (g) Except for de minimis emission increases allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.
- (h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#018 [25 Pa. Code §§ 127.11a & 127.215]**Reactivation of Sources**

- (a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.
- (b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

#019 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

- (a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.
- (b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

**SECTION B. General Title V Requirements****#020 [25 Pa. Code §§ 127.402(d) & 127.513(1)]****Submissions**

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

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

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

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

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

#021 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]**Sampling, Testing and Monitoring Procedures**

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

#023 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]**Reporting Requirements**

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

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

(c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #020(c) of this permit.

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

#026 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]**Risk Management**

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

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

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

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

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

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

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

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

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

SECTION B. General Title V Requirements

of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.

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

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

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Condition #24 of Section B of this Title V permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#027 [25 Pa. Code § 127.512(e)]**Approved Economic Incentives and Emission Trading Programs**

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

#028 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]**Permit Shield**

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

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

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

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

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

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

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

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

(c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department on minor or significant permit modifications, and operational flexibility changes shall be covered by the permit shield. Upon taking final action granting a request for an administrative permit amendment, the Department will allow coverage of the amendment by the permit shield in § 127.516 for administrative amendments which meet the relevant requirements of 25 Pa. Code Article III.

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

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

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

(1) Construction or demolition of buildings or structures.

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

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

(4) Clearing of land.

(5) Stockpiling of materials.

(6) Open burning operations.

(7) Not applicable.

(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 subsections (a)(9) and (c) and 123.2 (relating to fugitive particulate matter) or of the requirements of 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.

(c) See work practice standard requirement.

(d) Not applicable.

002 [25 Pa. Code §123.2]**Fugitive particulate matter**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Section C, Condition #001, above, if such emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.31]**Limitations**

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

**SECTION C. Site Level Requirements****# 004 [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.

005 [25 Pa. Code §123.42]**Exceptions**

The limitations of 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 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions).
- (4) Not applicable.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

The permittee shall maintain records to demonstrate compliance with NOx and VOC RACT restrictions contained in this permit in accordance with the minimum recordkeeping requirements of 25 Pa. Code Section 129.95. At a minimum, this shall include:

- (a) Records shall provide sufficient data and calculations to clearly demonstrate that the NOx and VOC RACT requirements are being met.
- (b) Data or information required to determine compliance with the NOx RACT requirements for Boilers Nos. 3, 4, and 5 shall be recorded and maintained in a time frame consistent with the averaging period of the requirement.
- (c) Records shall be retained for at least five years and be made available to the Department upon request.
- (d) All CEM reports shall be submitted to the Department within thirty (30) days after each [calendar] quarter but no later than the time frame established in the Department's latest Continuous Source Monitoring Manual.

[Authority for this condition is also derived from 25 Pa. Code Section 129.95.]

**SECTION C. Site Level Requirements****# 007 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

The permittee shall maintain a log of all reported fugitive emissions and malodors which deviate from the terms of conditions #001, 002, and 003, above, the cause of the deviation(s) (if known), and the corrective action taken to abate the deviation.

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.**# 008 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

[From: 25 Pa. Code §123.1(c)]

A person responsible for any source specified in subsections (a)(1) -- (7) or (9) shall take all reasonable actions to prevent particulate matter 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.

009 [25 Pa. Code §129.14]**Open burning operations**

- (a) Air basins. No person may permit the open burning of material in an air basin.
- (b) Not applicable.
- (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) Not applicable.
 - (4) Not applicable.
 - (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.

**SECTION C. Site Level Requirements**

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

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

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

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

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

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

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

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

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

(3) Not applicable.

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

[This permit does not constitute authorization to burn solid waste pursuant Section 610(3) of the Solid Waste Management Act, 35 P.S. Section 6018.610(3), or any other provision of Solid Waste Management Act.]

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This condition applies only to Boilers Nos. 3, 4, and 5 and Electromotive Diesel Units A.

The permittee shall comply with the following permit requirements from RACT Compliance permit No. OP 37-023 issued on April 8, 1999:

(a) The operation of the facility shall not at any time result in the emission of any air contaminants in excess of the limitations specified in, or established pursuant to any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection.

(b) The permittee shall, within an hour of occurrence, notify the Department of any malfunction of the source(s) or associated air cleaning device(s) which results in, or may possibly be resulting in, the emission of air contaminants in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection.

(c) If at any time, the permittee causes, permits, or allows any modification (as that term is defined in Chapter 121 of Title 25, the Rules and Regulations of the Department of Environmental Protection) of the aforementioned air contamination source(s), the operation and use of which is authorized by this permit, or causes, permits, or allows any modifications, malfunction or removal of any air pollution control device required as a condition of this permit, then and in that event, this

SECTION C. Site Level Requirements

permit shall be suspended, and the permittee shall not thereafter continue to operate or use said air contamination source(s).

(d) Sources in this permit complying with the NOx and VOC RACT requirements may be operated and used only so long as any associated air pollution control devices are operated and maintained in accordance with the specifications set forth in the respective plan approval(s) and the RACT application (as approved by the Department), and in accordance with any conditions set forth in herein.

(e) If, at any time, it is determined that the operation of the aforementioned source(s) is causing the emission of visible air contaminants in excess of the limitations specified in Section 123.41, or malodorous air contaminants in excess of the limitations specified in Section 123.31 of Article III of the Rules and Regulations of these contaminants or any other type of air contaminant in excess of the limitations specified in this permit and specified in, or established pursuant to, any other applicable rule or regulations contained in Article III, the owner or operator shall take immediate steps, including the installation of additional air cleaning device(s), if necessary, to reduce the air contaminant emissions to with the applicable limitations.

VIII. COMPLIANCE CERTIFICATION.

The permittee shall submit within thirty days of 12/31/2011 a certificate of compliance with all permit terms and conditions set forth in this Title V permit as required under condition #24 of section B of this permit, and annually thereafter.

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

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

**SECTION D. Source Level Requirements**

Source ID: 030

Source Name: AUXILIARY BOILER

Source Capacity/Throughput:

8.200 MMBTU/HR

60.000 Gal/HR

DIESEL FUEL

Conditions for this source occur in the following groups: 3
8

**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: BABCOCK & WILCOX - BOILER 3

Source Capacity/Throughput: 1,029.000 MMBTU/HR
 43.000 Tons/HR COAL
 800.000 Gal/HR #2 OIL

Conditions for this source occur in the following groups: 1
 6
 7



This source occurs in alternate operation SNCR 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).



SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

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

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

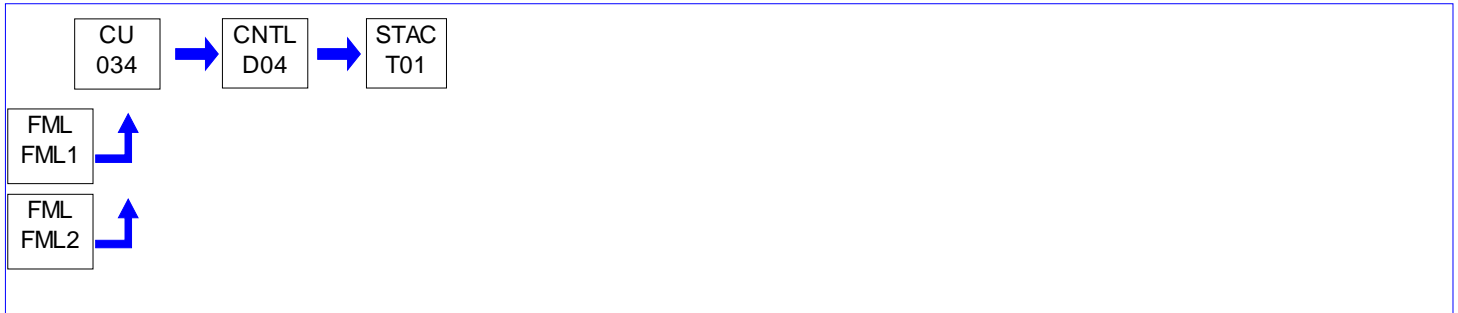
**SECTION D. Source Level Requirements**

Source ID: 034

Source Name: BABCOCK & WILCOX - BOILER 4

Source Capacity/Throughput: 1,029.000 MMBTU/HR
 43.000 Tons/HR COAL
 800.000 Gal/HR #2 OIL

Conditions for this source occur in the following groups: 1
 6
 7



This source occurs in alternate operation SNCR 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).



SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

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

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

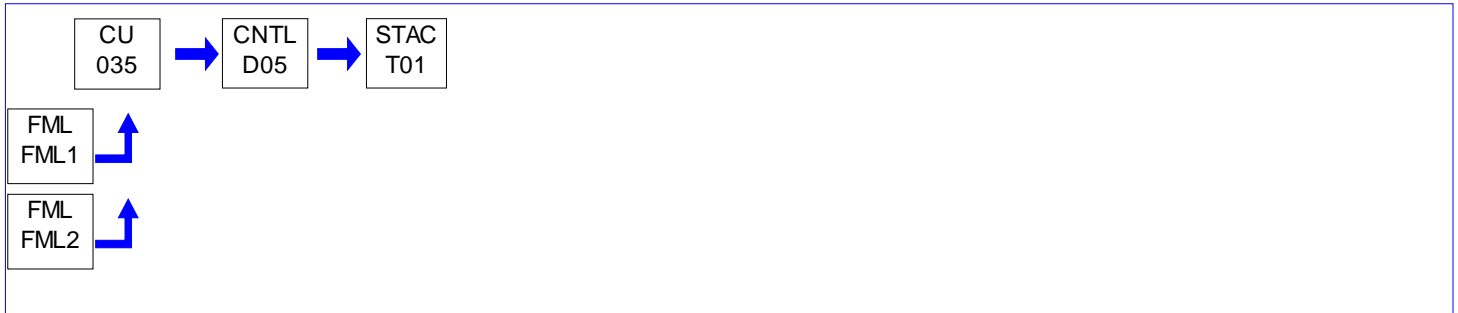
**SECTION D. Source Level Requirements**

Source ID: 035

Source Name: BABCOCK & WILCOX - BOILER 5

Source Capacity/Throughput: 1,325.000 MMBTU/HR
 55.000 Tons/HR COAL
 1,600.000 Gal/HR #2 OIL

Conditions for this source occur in the following groups: 1
 6
 7



This source occurs in alternate operation SNCR 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).



SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

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

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



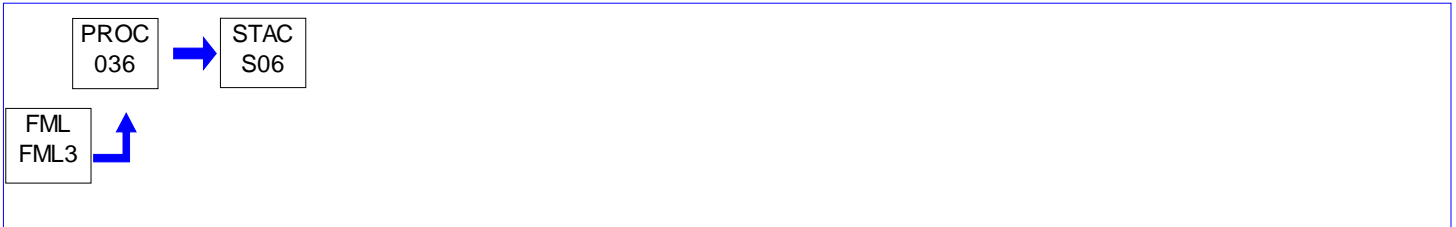
SECTION D. Source Level Requirements

Source ID: 036

Source Name: ELECTROMOTIVE DIESEL A

Source Capacity/Throughput: 492.000 Gal/HR #2 OIL

Conditions for this source occur in the following groups: 2
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).

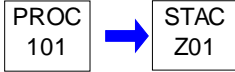
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 101

Source Name: COAL STOCKPILE

Source Capacity/Throughput:

**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.

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

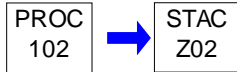
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: BOTTOMFLY ASH DISPOSAL

Source Capacity/Throughput:

**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.

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

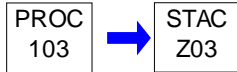
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 103

Source Name: PLANT ROADWAYS

Source Capacity/Throughput:

**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.

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

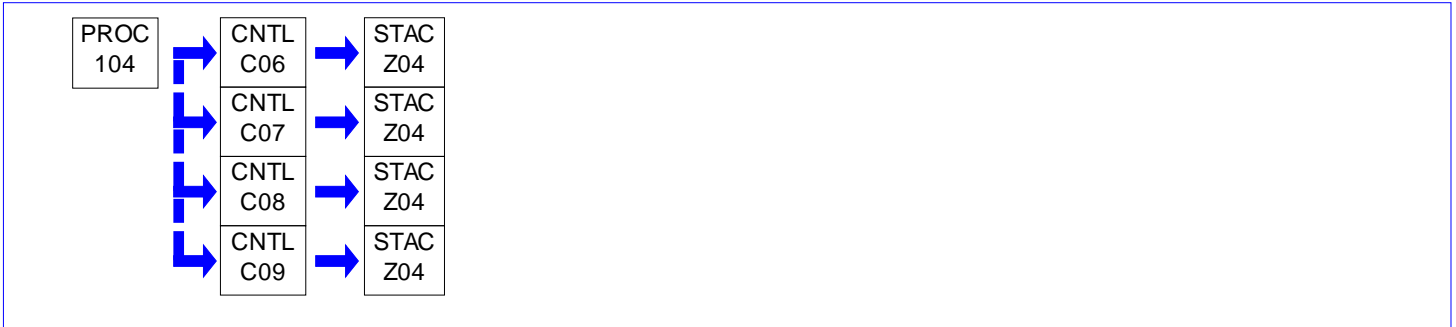
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 104

Source Name: FLYASH STORAGE SILOS

Source Capacity/Throughput:

**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.**# 001 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

The Permittee shall maintain and operate the fabric filters and water spray system on the flyash silos.

VII. ADDITIONAL REQUIREMENTS.

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

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



SECTION D. Source Level Requirements

Source ID: 106

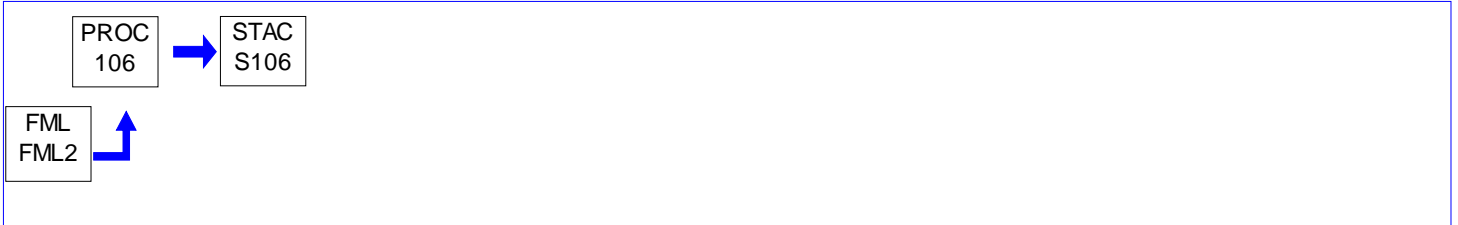
Source Name: TWO EMERGENCY DIESEL GENERATORS

Source Capacity/Throughput:

2.200 Gal/HR

DIESEL FUEL

Conditions for this source occur in the following groups: 5



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).

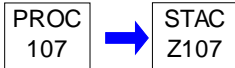
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 107

Source Name: PARTS WASHER (REMOTE RESERVOIR COLD CLEANING MACHINE)

Source Capacity/Throughput:

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

001 [25 Pa. Code §129.63]

Degreasing operations

(a) Cold cleaning machines. Except for those subject to the Federal National emissions standards for hazardous air pollutants (NESHAP) for halogenated solvent cleaners under 40 CFR Part 63 (relating to National emission standards for hazardous air pollutants for source categories), this subsection applies to cold cleaning machines that use 2 gallons or more of solvents containing greater than 5% VOC content by weight for the cleaning of metal parts.

(1) Not applicable.

(2) Immersion cold cleaning machines and remote reservoir cold cleaning machines shall:

(i) Have a permanent, conspicuous label summarizing the operating requirements in paragraph (3). In addition, the label shall include the following discretionary good operating practices:

(A) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.

(B) When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.

(C) Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.

(ii) Be equipped with a cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent. For remote reservoir cold cleaning machines which drain directly into the solvent storage reservoir, a perforated drain with a diameter of not more than 6 inches shall constitute an acceptable cover.

(3) Cold cleaning machines shall be operated in accordance with the following procedures:

(i) Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.

(ii) Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.

(iii) Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in the cold cleaning machine.

(iv) Air agitated solvent baths may not be used.

(v) Spills during solvent transfer and use of the cold cleaning machine shall be cleaned up immediately.

(4) After December 22, 2002, a person may not use, sell or offer for sale for use in a cold cleaning machine any solvent with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater and containing greater than 5% VOC by weight, measured at 20°C (68°F) containing VOCs.



SECTION D. Source Level Requirements

(5) On and after December 22, 2002, a person who sells or offers for sale any solvent containing VOCs for use in a cold cleaning machine shall provide, to the purchaser, the following written information:

- (i) The name and address of the solvent supplier.
- (ii) The type of solvent including the product or vendor identification number.
- (iii) The vapor pressure of the solvent measured in mm hg at 20°C (68°F).

(6) A person who operates a cold cleaning machine shall maintain for at least 2 years and shall provide to the Department, on request, the information specified in paragraph (5). An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

(7) Paragraph (4) does not apply:

- (i) To cold cleaning machines used in extreme cleaning service.
 - (ii) If the owner or operator of the cold cleaning machine demonstrates, and the Department approves in writing, that compliance with paragraph (4) will result in unsafe operating conditions.
 - (iii) To immersion cold cleaning machines with a freeboard ratio equal to or greater than 0.75.
- (b) - (e) : Not applicable.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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).



SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: 1

Group Description: CAIR and CAM Rules for Coal fired Boilers

Sources included in this group

ID	Name
033	BABCOCK & WILCOX - BOILER 3
034	BABCOCK & WILCOX - BOILER 4
035	BABCOCK & WILCOX - BOILER 5

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) Not applicable

(2) Not applicable

(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.

(b) Allowable emissions under subsection (a) are graphically indicated in Appendix A.

[From: Plan approval #37-023D, condition #001]

002 [25 Pa. Code §123.22]**Combustion units**

(a) Not applicable.

(b) Not applicable.

(c) Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley and Johnstown air basins. Combustion units in these subject air basins shall conform with the following:

(1) General provision. No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from any combustion unit, at any time, in excess of the rate of 3 pounds per million Btu of heat input over any 1-hour period except as provided for in paragraph (4).

(2) Commercial fuel oil. No person may, at any time, offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil in the subject air basins on or after the effective dates listed in this paragraph which contains sulfur in excess of the applicable percentage by weight set forth in the following table:

	Effective August 1, 1979 %
Grades Commercial Fuel Oil	Sulfur
No. 2 and Lighter (viscosity less than or equal to 5.82cSt)	0.3
No. 4, No. 5, No. 6 and heavier (viscosity greater than 5.82cSt)	2.0

(3) Equivalency provision. Paragraph (2) does not apply to those persons or installations where equipment or processes

**SECTION E. Source Group Restrictions.**

are used to reduce the emissions from the burning of fuels with a higher sulfur content than that specified in paragraph (2); however, the emissions may not exceed those which would result from the use of the fuels specified in paragraph (2).

(4) Solid fossil fuel fired combustion units. Solid fuel fired combustion units shall conform with the following:

(i) This paragraph applies to all solid fossil fuel fired combustion units with a rated capacity greater than or equal to 250 million Btus of heat input per hour and to any solid fossil fuel fired combustion unit upon petition to and acceptance by the Department.

(ii) Not applicable.

(iii) No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from any combustion unit in excess of the rates set forth in the following table:

	Allowable Pounds SO ₂ Per 106Btu Heat Input
Thirty-day running average not to be exceeded at any time	2.8
Daily average not to be exceeded more than 2 days in any running 30-day period	3.0
Daily average maximum not to be exceeded at any time	3.6

(iv) A combustion unit not meeting the requirements of 123.25 (relating to monitoring requirements) for installation and operation of continuous SO₂ emission monitoring equipment is subject to the provisions of paragraph (1).

(d) Not applicable.

(e) Not applicable.

[From: Plan approval # 37-023D, condition # 002]

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:

- (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.**

The nitrogen oxides emissions for each boiler (Boilers Nos. #3, #4, and #5) shall not exceed 0.50 lb./MMBtu based on a 30 day rolling average. The Department reserves the right to revise the NO_x emission limitations based on actual Continuous Emission Monitoring (CEM) data gathered after the installation of LNB with separate overfire air.

[Authority for this condition is also derived from 25 Pa. Code Section 129.91.]

[From: Plan approval # 37-023D, condition #005]

**SECTION E. Source Group Restrictions.****# 005 [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.**

NOx Annual Emissions Requirements

40 CFR Section 97.106 Standard Requirements.

- (a) Permit requirements. (1) The CAIR designated representative of each CAIR NOXsource required to have a title V operating permit and each CAIR NOXunit 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 NOXsource required to have a title V operating permit and each CAIR NOXunit required to have a title V operating permit at the source shall have a CAIR permit issued by the permitting authority under subpart CC of this part for the source and operate the source and the unit in compliance with such CAIR permit.
- (3) Except as provided in subpart II of this part, the owners and operators of a CAIR NOXsource that is not otherwise required to have a title V operating permit and each CAIR NOXunit 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 NOXsource and such CAIR NOXunit.
- (b) Monitoring, reporting, and recordkeeping requirements. (1) The owners and operators, and the CAIR designated representative, of each CAIR NOXsource and each CAIR NOXunit 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 NOXsource with the CAIR NOXemissions 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 NOXsource and each CAIR NOXunit at the source shall hold, in the source's compliance account, CAIR NOXallowances 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 NOXunits at the source, as determined in accordance with subpart HH of this part.
- (2) A CAIR NOXunit 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.
- (3) A CAIR NOXallowance 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 NOXallowance was allocated.
- (4) CAIR NOXallowances shall be held in, deducted from, or transferred into or among CAIR NOXallowance Tracking System accounts in accordance with subparts EE, FF, GG, and II of this part.
- (5) A CAIR NOXallowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NOXAnnual Trading Program. No provision of the CAIR NOXAnnual 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 NOXallowance 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 NOXallowance to or from a CAIR NOXsource's compliance account is incorporated automatically in any CAIR permit of the source.
- (d) Excess emissions requirements. If a CAIR NOXsource emits nitrogen oxides during any control period in excess of the CAIR NOXemissions limitation, then:
- (1) The owners and operators of the source and each CAIR NOXunit at the source shall surrender the CAIR NOXallowances 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 NOXsource and each CAIR NOXunit 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.

**SECTION E. Source Group Restrictions.**

- (i) The certificate of representation under §97.113 for the CAIR designated representative for the source and each CAIR NOXunit 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 NOXAnnual Trading Program.
- (iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOXAnnual Trading Program or to demonstrate compliance with the requirements of the CAIR NOXAnnual Trading Program.
- (2) The CAIR designated representative of a CAIR NOXsource and each CAIR NOXunit at the source shall submit the reports required under the CAIR NOXAnnual Trading Program, including those under subpart HH of this part.
- (f) Liability. (1) Each CAIR NOXsource and each CAIR NOXunit shall meet the requirements of the CAIR NOXAnnual Trading Program.
- (2) Any provision of the CAIR NOXAnnual Trading Program that applies to a CAIR NOXsource or the CAIR designated representative of a CAIR NOXsource shall also apply to the owners and operators of such source and of the CAIR NOXunits at the source.
- (3) Any provision of the CAIR NOXAnnual Trading Program that applies to a CAIR NOXunit or the CAIR designated representative of a CAIR NOXunit shall also apply to the owners and operators of such unit.
- (g) Effect on other authorities. No provision of the CAIR NOXAnnual 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 NOXsource or CAIR NOXunit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

006 [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.**

SO2 Annual Emissions Requirements
40 CFR Section 97.206 Standard Requirements.

- (a) Permit requirements. (1) The CAIR designated representative of each CAIR SO2source required to have a title V operating permit and each CAIR SO2unit 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 SO2source required to have a title V operating permit and each CAIR SO2unit 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 SO2source that is not otherwise required to have a title V operating permit and each CAIR SO2unit 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 SO2source and such CAIR SO2unit.
- (b) Monitoring, reporting, and recordkeeping requirements. (1) The owners and operators, and the CAIR designated representative, of each CAIR SO2source and each CAIR SO2unit 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 SO2source with the CAIR SO2emissions 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 SO2source and each CAIR SO2unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO2allowances 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 SO2units at the source, as determined in accordance with subpart HHH of this part.
- (2) A CAIR SO2unit 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

**SECTION E. Source Group Restrictions.**

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

(3) A CAIR SO₂allowance 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 SO₂allowance was allocated.

(4) CAIR SO₂allowances shall be held in, deducted from, or transferred into or among CAIR SO₂Allowance Tracking System accounts in accordance with subparts FFF, GGG, and III of this part.

(5) A CAIR SO₂allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂Trading Program. No provision of the CAIR SO₂Trading 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 SO₂allowance 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 SO₂allowance to or from a CAIR SO₂source's compliance account is incorporated automatically in any CAIR permit of the source.

(d) Excess emissions requirements. If a CAIR SO₂source emits sulfur dioxide during any control period in excess of the CAIR SO₂emissions limitation, then:

(1) The owners and operators of the source and each CAIR SO₂unit at the source shall surrender the CAIR SO₂allowances 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 SO₂source and each CAIR SO₂unit 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 SO₂unit 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 SO₂Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR SO₂Trading Program or to demonstrate compliance with the requirements of the CAIR SO₂Trading Program.

(2) The CAIR designated representative of a CAIR SO₂source and each CAIR SO₂unit at the source shall submit the reports required under the CAIR SO₂Trading Program, including those under subpart HHH of this part.

(f) Liability. (1) Each CAIR SO₂source and each CAIR SO₂unit shall meet the requirements of the CAIR SO₂Trading Program.

(2) Any provision of the CAIR SO₂Trading Program that applies to a CAIR SO₂source or the CAIR designated representative of a CAIR SO₂source shall also apply to the owners and operators of such source and of the CAIR SO₂units at the source.

(3) Any provision of the CAIR SO₂Trading Program that applies to a CAIR SO₂unit or the CAIR designated representative of a CAIR SO₂unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities. No provision of the CAIR SO₂Trading 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 SO₂source or CAIR SO₂unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

007 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO₂ Trading Programs §40 CFR 97.306]

**Subpart AAAA - CAIR NOX Ozone Season Trading Program General Provisions
Standard requirements.**

NOx Ozone Season Emission Requirements.

40 CFR Section 97.306 Standard Requirements.

(a) Permit requirements. (1) The CAIR designated representative of each CAIR NOXOzone Season source required to have a title V operating permit and each CAIR NOXOzone Season unit required to have a title V operating permit at the source shall:

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- (i) Submit to the permitting authority a complete CAIR permit application under §97.322 in accordance with the deadlines specified in §97.321; and
- (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.
- (2) The owners and operators of each CAIR NOXOzone Season source required to have a title V operating permit and each CAIR NOXOzone Season unit required to have a title V operating permit at the source shall have a CAIR permit issued by the permitting authority under subpart CCCC of this part for the source and operate the source and the unit in compliance with such CAIR permit.
- (3) Except as provided in subpart IIII of this part, the owners and operators of a CAIR NOXOzone Season source that is not otherwise required to have a title V operating permit and each CAIR NOXOzone Season unit that is not otherwise required to have a title V operating permit are not required to submit a CAIR permit application, and to have a CAIR permit, under subpart CCCC of this part for such CAIR NOXOzone Season source and such CAIR NOXOzone Season unit.
- (b) Monitoring, reporting, and recordkeeping requirements. (1) The owners and operators, and the CAIR designated representative, of each CAIR NOXOzone Season source and each CAIR NOXOzone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of subpart HHHH of this part.
- (2) The emissions measurements recorded and reported in accordance with subpart HHHH of this part shall be used to determine compliance by each CAIR NOXOzone Season source with the CAIR NOXOzone Season emissions limitation under paragraph (c) of this section.
- (c) Nitrogen oxides ozone season emission requirements. (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NOXOzone Season source and each CAIR NOXOzone Season unit at the source shall hold, in the source's compliance account, CAIR NOXOzone Season allowances available for compliance deductions for the control period under §97.354(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NOXOzone Season units at the source, as determined in accordance with subpart HHHH of this part.
- (2) A CAIR NOXOzone Season unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under §97.370(b)(1), (2), (3), or (7) and for each control period thereafter.
- (3) A CAIR NOXOzone Season allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of this section, for a control period in a calendar year before the year for which the CAIR NOXOzone Season allowance was allocated.
- (4) CAIR NOXOzone Season allowances shall be held in, deducted from, or transferred into or among CAIR NOXOzone Season Allowance Tracking System accounts in accordance with subparts EEEE, FFFF, GGGG, and IIII of this part.
- (5) A CAIR NOXOzone Season allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NOXOzone Season Trading Program. No provision of the CAIR NOXOzone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §97.305 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (6) A CAIR NOXOzone Season allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under subpart EEEE, FFFF, GGGG, or IIII of this part, every allocation, transfer, or deduction of a CAIR NOXOzone Season allowance to or from a CAIR NOXOzone Season source's compliance account is incorporated automatically in any CAIR permit of the source.
- (d) Excess emissions requirements. If a CAIR NOXOzone Season source emits nitrogen oxides during any control period in excess of the CAIR NOXOzone Season emissions limitation, then:
- (1) The owners and operators of the source and each CAIR NOXOzone Season unit at the source shall surrender the CAIR NOXOzone Season allowances required for deduction under §97.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.
- (e) Recordkeeping and reporting requirements. (1) Unless otherwise provided, the owners and operators of the CAIR NOXOzone Season source and each CAIR NOXOzone Season 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 §97.313 for the CAIR designated representative for the source and each CAIR NOXOzone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under §97.313 changing the CAIR designated representative.
- (ii) All emissions monitoring information, in accordance with subpart HHHH of this part, provided that to the extent that subpart HHHH of this part provides for a 3-year period for recordkeeping, the 3-year period shall apply.

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- (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NOXOzone Season Trading Program.
- (iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOXOzone Season Trading Program or to demonstrate compliance with the requirements of the CAIR NOXOzone Season Trading Program.
- (2) The CAIR designated representative of a CAIR NOXOzone Season source and each CAIR NOXOzone Season unit at the source shall submit the reports required under the CAIR NOXOzone Season Trading Program, including those under subpart HHHH of this part.
- (f) Liability. (1) Each CAIR NOXOzone Season source and each CAIR NOXOzone Season unit shall meet the requirements of the CAIR NOXOzone Season Trading Program.
- (2) Any provision of the CAIR NOXOzone Season Trading Program that applies to a CAIR NOXOzone Season source or the CAIR designated representative of a CAIR NOXOzone Season source shall also apply to the owners and operators of such source and of the CAIR NOXOzone Season units at the source.
- (3) Any provision of the CAIR NOXOzone Season Trading Program that applies to a CAIR NOXOzone Season unit or the CAIR designated representative of a CAIR NOXOzone Season unit shall also apply to the owners and operators of such unit.
- (g) Effect on other authorities. No provision of the CAIR NOXOzone Season Trading Program, a CAIR permit application, a CAIR permit, or an exemption under §97.305 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NOXOzone Season source or CAIR NOXOzone Season 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.**# 008 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

- (a) The permittee shall conduct stack testing, as approved by the Department, for particulate matter within the eighteen months immediately prior to the expiration date of this permit. For the purpose of determining compliance with the limitation presented in Condition D #001, "particulate matter" is defined as "filterable particulate matter" per PA DEP Source testing manual, revision no. 3.3, § 1.3.1.2.
- (b) The permittee shall conduct an analysis of all fuel oil deliveries to determine the percent by weight of sulfur in the fuel oil in accordance with the procedures contained in 25 Pa. Code Section 139.16.
- (c) The supplier of the fuel oil may conduct the analysis on behalf of the permittee as long as the supplier conducts the testing in accordance with the procedures contained in 25 Pa. Code Section 139.16 and provides a certification on the delivery receipt that the testing was conducted in accordance with 25 Pa. Code Section 139.16.
- (d) The use of any appropriate ASTM (or other certified) method for determining the sulfur content in the fuel oil is acceptable to the Department, as long as the facility are using one of the standards (or equivalent) that are referenced in CFR 40 CFR Part 60.17.
- (e) The testing frequency noted in condition (a) above is superseded by the testing frequency listed in Condition E#001, Group 6.

[From: Plan approval # PA 37-023D, condition# 007]

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §123.25]****Monitoring requirements**

- a) The Permittee shall install, operate and maintain continuous SO₂ monitoring systems in compliance with 25 Pa. Code 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 25 Pa. Code Chapter 139, Subchapter C.
- b) Continuous SO₂ monitoring systems installed under this section shall meet the minimum data availability requirements in 25 Pa. Code Chapter 139, Subchapter C.

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c) The Department may use the data from the SO₂ monitoring devices to enforce the emission limitations for SO₂ defined in this article.

[From: Plan approval# 37-023D, condition #008]

010 [25 Pa. Code §123.46]**Monitoring requirements**

(a) The following sources are subject to this section:

(1) Fossil fuel-fired steam generators with an annual average capacity factor of greater than 30%, as demonstrated to the Department by the owner or operator, and of greater than 250 million Btu per hour heat input except where:

(i) Natural gas is the only fuel burned.

(ii) Oil or a mixture of gas and oil are the fuels burned and the source is able to comply with the applicable particulate matter and opacity regulations without utilization of particulate matter collection equipment and the source has not been found, within the 5 years previous to the applicability of this section, through any administrative or judicial proceedings, to be in violation of any visible emissions standard.

(2) Not applicable

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

(c) Not applicable

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

(e) 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 have been unable to complete such operations within the time period provided.

[Plan approval # 37-023D, condition# 010]

011 [25 Pa. Code §123.46]**Monitoring requirements**

a) The Permittee shall install, operate, and maintain continuous opacity monitoring devices in compliance with 25 Pa Code Chapter 139, Subchapter C (relating to requirements for continuous in-stack monitoring for stationary sources). Results of opacity monitoring shall be submitted to the Department on a regular basis in compliance with the requirements of 25 Pa Code Chapter 139, Subchapter C.

b) The Department may use the data from the continuous opacity monitor to enforce the visible emission limitations defined in this permit.

c) Exhaust gases from each of the 3 boilers are routed through an electrostatic precipitator (ESP) that is in dedicated service to that boiler. Exhaust gases exiting the 3 ESPs are combined in a common header. Exhaust gases exiting the header are then routed to the chimney. Three flues are installed in the chimney, but one of those liners is currently blanked-off. Consequently, to satisfy the requirements under 25 Pa. Code §123.46, GenOn has installed 3 certified COMs in the ductwork located between each ESP and the common header. Opacity measurements from the 3 certified COMs are averaged in accordance with 25 Pa. Code Chapter 139, Subchapter C (which in turn references the Department's Continuous Source Monitoring Manual) to determine the resultant opacity from the combined exhaust gas stream.

012 [25 Pa. Code §123.51]**Monitoring requirements**

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- a) The Permittee shall operate and maintain the continuous nitrogen oxides monitoring systems and other monitoring systems to convert data to required reporting units in compliance with 25 Pa Code Chapter 139, Subchapter C (relating to requirements for continuous in-stack monitoring for statutory sources).
- b) The Permittee shall submit results of the continuous NOx monitoring system on a regular schedule and in a format acceptable to the Department and in compliance with 25 Pa. Code Chapter 139, Subchapter C.
- c) Continuous nitrogen oxides monitoring systems shall meet the minimum data availability requirements in 25 Pa. Code Chapter 139, Subchapter C.

[Compliance with monitoring requirements in this streamlined permit condition assures compliance with Condition #11 or the RACT Compliance Permit issued on April 8, 1999.]

[From: Plan approval # 37-023D, condition #011]

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

- (a) The permittee shall use the opacity readings to obtain data and monitor the emission control equipment performance.
- (b) The permittee shall use a Department Certified Continuous Opacity Monitor (COM) to measure opacity downstream of the electrostatic precipitator.
- (1) The range of the COM shall be 0% to 100% opacity.

[Additional authority for permit condition (a) - (b) is also derived from 40 CFR §64.3]

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

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

(a) Data Representativeness

(1) The % opacity measured by the COMs is proportional to the amount of particulate matter (TSP) in the exhaust stream. The accuracy of the COMs shall be verified annually by methods specified in the most recent version of the Department of Environmental Protection's Continuous Source Monitoring Manual. Opacity shall be further correlated to the mass emission rate through an approved particulate testing program taken during routine, normal operations in a full daily cycle.

(2) The % opacity will also act as a direct indication of the integrity of the electrostatic precipitator and the various components involved. Further, the precipitator integrity is representative of the particulate emission rate. The COMs shall have a minimum accuracy as specified in the latest edition of PADEP's Continuous Source Monitoring Manual.

(b) Verification of Operational Status

(1) The operation of the COMs shall be verified by a display in the control room and the presence of a valid signal on the COMs readout and the results of the QA/QC program.

(2) Opacity monitoring systems shall meet at least one of the following minimum data availability requirements unless other data availability requirements are stipulated elsewhere in this title for a particular process:

(i) At least 90% of the hours in each calendar month shall be valid hours as set forth in quality assurance section of the manual referenced in §139.102(3).

(ii) At least 95% of the hours in each calendar quarter shall be valid hours as set forth in quality assurance section of the manual referenced in § 139.102(3). The manual referenced in §139.102(3) is the PADEP Continuous Source Monitoring Manual.

(c) QA/QC Practices

To assure the accuracy of readings from the COMs, the permittee shall perform daily drift checks, a quarterly calibration

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audit, and an annual RATA in accordance with the most recent version of the PA DEP Continuous Source Monitoring Manual.

(d) Data Collection Procedures & Averaging Periods

(1) An electronic data handling and acquisition system (DAHS) shall collect data points from the COMs approximately every 10 seconds. These % opacity data points are reduced to 1-minute averages and then to 1-hour averages. Overall averaging period is in one-hour blocks. COMs data will be stored in the DAHS in accordance with the Department's Continuous Source Monitoring Manual requirements.

(2) An electronic DAHS shall collect data points from the flow meter and CO₂ CEM approximately every second. Minute averages of the flow rate shall be calculated from the 1-second data. Hourly data shall be calculated from the minute data in accordance with the Department's Continuous Source Monitoring Manual requirements.

(3) An electronic DAHS shall calculate a minimum of 4 equally-spaced PM rates, in units of lb/MMBtu over a 1-hour period pursuant to the requirements of 40 CFR §64.3(b)(4)(ii).

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

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

Compliance Assurance Monitoring (CAM) Protocol

(A) The purpose of this protocol is to outline procedures for the development, verification, operation, and ongoing maintenance of a continuous monitoring approach sufficient to reasonably assure that Source IDs #033, #034 and #035 operate in compliance with the 0.1 lb/MMBtu particulate matter emission limitation.

(B) Monitoring designed and operated in accordance with this protocol satisfies the requirements of the CAM rule's monitoring design criteria in 40 CFR Section 64.3(a) and (b) pursuant to 40 CFR Section 64.3(d)(2).

I. CAM Indicators - Predicted Particulate Matter (PM) and Opacity of Exhaust

Measurement Approach - Predicted PM, in units of lb/MMBtu, using the % opacity measured by the COMS; the %CO₂(w) measured by the CO₂ CEMS; each boiler's gross megawatt load (MW) measured by the continuous gross megawatt load meter, data acquisition and handling system and Linear Regression equations (as approved by the Department).

II. CAM Indicator Parameters and Excursion

(A) As identified below, exhaust gas opacity is used as the CAM indicator parameter to comply with the requirements specified in 40 CFR Section 64.3(d)(3)(ii).

(B) The permittee shall assure the measured % opacity, %CO₂(w), gross megawatt load and predicted PM are recorded in accordance to the requirements specified in 40 CFR Section 64.3(b)(4)(ii)

(C) The predicted PM for Units for each boiler shall be determined from the CAM indicators, including the PM concentration, using the following equation:

$$\text{lb/MMBtu} = Y * (1 / 7000) * Fc * (100 / \%CO_2(w))$$

where,

Y = the PM concentration (gr/scf) calculated by using the Linear Regression equations

Fc = carbon-based F-factor

%CO₂(w) = the %CO₂ measured.

(D) The predicted PM for Units Boiler #3 shall be determined from the CAM indicators, including the PM concentration and emission apportionment factor (EAF) using the following equation:

$$Y = (1.74E-03) + [(5.15E-05)X] \text{ where } R^2 \text{ value } 0.97$$

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where,

Y = the PM concentration (gr/scf)

X = [Opacity (%)]²

(E) Linear Regression Equation for Boiler #4: $Y = (1.08E-02) + [(3.61E-05) X]$ Where $R^2 = 0.53$

Linear Regression Equation for Boiler #5 : $Y = (2.3E-03 + [5.05E-05) X]$, where $R^2 = 0.42$

(F) Each instance where the predicted PM rate (3-hour block averages) exceeds 0.09 lb/MMBtu is defined to be an excursion.

016 [25 Pa. Code §145.213.]

Supplemental monitoring, recordkeeping and reporting requirements for gross electrical output and useful thermal energy for units subject to 40 CFR 96.170--96.175.

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

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

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

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

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

IV. RECORDKEEPING REQUIREMENTS.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for permit conditions (a)-(d) is also derived from 40 CFR §64.9]

(a) The permittee shall continuously record opacity, exhaust flow and CO₂ concentration readings using the data acquisition system (DAS).

(b) The permittee shall record all excursions and corrective actions taken in response to an excursion and the time elapsed until the corrective actions have been taken.

(c) The permittee shall record all inspections, repair and maintenance performed on the monitoring equipment.

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(d) The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). The permittee shall also record the dates, times and durations, possible causes and corrective actions taken for the incidents.

[Additional authority for permit condition (e) is also derived from 40 CFR §70.6(a)(3)(ii)(B)]

(e) The permittee shall keep all records for a period of five (5) years and make records available to the Department upon request.

018 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR Section 64.9 and Section 70.6(a)(3)(iii)(A)]

(a) The permittee shall submit reports to the Department on a semi-annual basis that include the records of all excursions and corrective actions taken, the dates, times, durations, and possible causes.

(b) The permittee shall submit reports to the Department on a semi-annual basis that include all monitoring downtime incidents, other than downtime associated with instrument calibrations, their dates, times and durations, possible causes, and corrective actions taken.

(c) The semi-annual reports shall be submitted to the Department no later than March 1 (for July 1 through December 31 of the previous year) and September 1 (for January 1 through June 30 of the current year).

019 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall maintain records of all fuel oil deliveries and testing. If the supplier has conducted the fuel oil analysis on behalf of the permittee, then the permittee shall maintain a copy of the certification provided on the delivery record.

[From: Plan approval # 37-023D, condition # 014]

V. REPORTING REQUIREMENTS.**# 020 [25 Pa. Code §145.223.]****Supplemental monitoring, recordkeeping and reporting requirements for gross electrical output and useful thermal energy for units subject to 40 CFR 96.370--96.375.**

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

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

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

(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

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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).

VI. WORK PRACTICE REQUIREMENTS.**# 021 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for permit condition (a) is also derived from 40 CFR §64.3 & §64.6]

(a) The permittee shall adhere to the following to provide reasonable assurance of compliance with the particulate matter limit of 25 Pa. Code §123.11 (a)(3):

(1) TSP emissions are calculated by the DAHS using opacity, exhaust flow, CO₂ concentration data and the "Opacity vs. Particulate" correlation curve.

(2) An excursion of the calculated particulate matter emission is defined as a calculated particulate matter emission rate greater than 0.09 pound per MMBTU, calculated as a 3 hour block average.

[Additional authority for permit conditions (b)-(d) is also derived from 40 CFR §64.3]

(b) The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the devices.

(1) The permittee shall develop verification procedures to confirm the operational status of new or modified monitoring equipment prior to commencement of the monitoring process.

(2) The permittee shall calibrate and check the accuracy of monitoring equipment taking into account the manufacturer's specifications at approved time intervals.

(c) The permittee shall maintain all monitoring equipment and stock parts necessary for routine repairs onsite.

[Additional authority for permit condition (e) is also derived from 40 CFR §64.4]

(d) The permittee shall submit an implementation plan and schedule if the opacity indicator requires installation, testing or other necessary activities. The schedule for completing installation and beginning operation of the monitoring may not exceed 180 days after the issuance date of this permit.

022 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Addition authority for permit conditions (a)-(e) is also derived from 40 CFR §64.8]

(a) The permittee shall develop and implement a quality improvement plan (QIP) as expeditiously as practicable if six or more excursions occur in a six-month reporting period.

(b) The QIP should be developed within 60 days and the permittee shall provide a copy of the QIP to the Department at that time. Furthermore, the permittee shall notify the Department if the period for completing the improvements contained within the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

(c) In accordance with 40 CFR Part 64, §64.8, the QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the permittee shall modify the QIP, and provide a copy to the Department, to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

(1) Improved preventative maintenance practices.

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- (2) Process operation changes.
- (3) Appropriate improvements to control methods.
- (4) Other steps appropriate to correct performance.

(d) Following implementation of a QIP, the Department will require revisions to the QIP if the plan has failed to either:

- (1) Address the cause of the control device performance problem; or
- (2) Provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(e) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under any Federal, State, or Local laws or any other applicable requirements under the Clean Air Act.

[Additional authority for permit condition (f) is also derived from 40 CFR §64.9]

(f) The permittee shall record actions taken to implement the QIP during a reporting period and all related actions including, but not limited to inspections, repairs and maintenance performed on the monitoring equipment.

023 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) NO_x RACT for Boiler numbers 3, 4, and 5 shall be the installation and operation of low NO_x burners with separate overfire air in compliance with 25 Pa. Code 129.93(b)(1).

[Authority for this condition is also derived from 25 Pa. Code Section 129.93.]

(b) VOC RACT from Boilers #3, #4, and #5 will be installation, maintenance, and operation of the boilers in accordance with the manufacturer's specifications and good air pollution control practices.

[Authority for this condition is also derived from 25 Pa. Code Section 129.91.]

[From: Plan approval # 37-023D, condition # 018]

VII. ADDITIONAL REQUIREMENTS.**# 024 [25 Pa. Code §123.121]****NO_x Allowance Program transition.**

(a) NO_x allocations for the NO_x allowance control periods starting May 1, 2003, will be distributed in accordance with Chapter 145 (relating to interstate pollution transport reduction).

(b) The emission limitations and monitoring requirements established in 123.101-123.120 are replaced by the requirements in Chapter 145 beginning with the May 1, 2003, control period. If a source has failed to demonstrate compliance with 123.111 (relating to failure to meet source compliance requirements), the provisions in 145.54(d) (relating to compliance) shall be used to withhold NO_x allowances in calendar year 2003 and beyond. If no NO_x allowances are provided to the source under 145.42 (relating to NO_x allowance allocations), the source will be obligated to acquire and retire a number of NO_x allowances as specified in 145.54.

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

Source IDs 033 through 035 are subject to the CAM requirements of 40 CFR Part 64. The permittee shall comply with all applicable requirements of 40 CFR Sections 64.1 through 64.10.

026 [25 Pa. Code §127.531]**Special conditions related to acid rain.**

(a) This facility is an affected source subject to the Phase II acid rain requirements under Title IV of the Clean Air Act. In accordance with 25 Pa. Code Section 127.531, the Air Pollution Control Act, and Title IV of the Clean Air Act, the Department has issued and is incorporating by reference the Phase II Acid Rain Permit attached in Appendix A.

(b) SO₂ Allowance Allocations and NO_x Requirements for each affected unit. See Attachment A.

**SECTION E. Source Group Restrictions.**

(c) Comments, Notes and Justification: None

(d) Acid Rain Permit Application(s). See Attachment A.

[From: Plan approval # 37-023D, condition # 020]

027 [25 Pa. Code §145.204.]

Incorporation of Federal regulations by reference.

(a) Except as otherwise specified in this subchapter, the provisions of the CAIR NOx Annual Trading Program, found in 40 CFR Part 96 (relating to NOx budget trading program and CAIR NOx and SO2 trading programs for State implementation plans), including all appendices, future amendments and supplements thereto, are incorporated by reference.

(b) Except as otherwise specified in this subchapter, the provisions of the CAIR SO2 Trading Program, found in 40 CFR Part 96, including all appendices, future amendments and supplements thereto, are incorporated by reference.

(c) Except as otherwise specified in this subchapter, the provisions of the CAIR NOx Ozone Season Trading Program, found in 40 CFR Part 96, including all appendices, future amendments and supplements thereto, are incorporated by reference.

(d) In the event of a conflict between Federal regulatory provisions incorporated by reference in this subchapter and Pennsylvania regulatory provisions, the provision expressly set out in this subchapter shall be followed unless the Federal provision is more stringent. Federal regulations that are cited in this subchapter or that are cross-referenced in the Federal regulations incorporated by reference include any Pennsylvania modifications made to those Federal regulations.

028 [25 Pa. Code §145.205.]

Emission reduction credit provisions.

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

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

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

029 [25 Pa. Code §145.212.]

CAIR NOx allowance allocations.

(a) Provisions not incorporated by reference. The requirements of 40 CFR 96.142 (relating to CAIR NOx allowance allocations) are not incorporated by reference. Instead of 40 CFR 96.142, the requirements 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:

**SECTION E. Source Group Restrictions.**

- (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.
- (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

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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:

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

where,

AA is the unit's prorated allocation,

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

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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 § 145.212(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.

030 [25 Pa. Code §145.222.]

CAIR NOx Ozone Season allowance allocations.

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

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

(1) A unit's control period heat input and a unit's status as coal-fired or oil-fired for the ozone season portion of a calendar year under this paragraph will be determined in one of the following two ways:

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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

**SECTION E. Source Group Restrictions.**

Group Name: 2

Group Description: Electromotive Diesels

Sources included in this group

ID	Name
036	ELECTROMOTIVE DIESEL A

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

No person may permit the emission into the outdoor atmosphere of particulate matter from this process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

002 [25 Pa. Code §123.21]**General**

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.

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

(a) The permittee shall use only #2 fuel oil with a sulfur content less than 0.3 percent in the electromotive diesels.

(b) The use of #2 fuel oil with less than 0.3 percent sulfur and operation of the electromotive diesel in accordance with good operating practices and the manufacturer's specifications shall be adequate to demonstrate compliance with the emission limitation in Condition #002, above.

II. TESTING REQUIREMENTS.**# 004 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

(a) The permittee shall conduct an analysis of all fuel oil deliveries to determine the percent by weight of sulfur in the fuel oil in accordance with the procedures contained in 25 Pa. Code Section 139.16.

(b) The supplier of the fuel oil may conduct the analysis on behalf of the permittee as long as the supplier conducts the testing in accordance with the procedures contained in 25 Pa. Code Section 139.16 and provides a certification on the delivery receipt that the testing was conducted in accordance with 25 Pa. Code Section 139.16.

(c) The use of any appropriate ASTM (or other certified) method for determining the sulfur content in the fuel oil is acceptable to the Department, as long as the facility are using one of the standards (or equivalent) that are referenced in CFR 40 CFR Part 60.17.

III. MONITORING REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.****IV. RECORDKEEPING REQUIREMENTS.****# 005 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

The permittee shall maintain the following records for this source on a monthly basis:

1. Hours of operation
2. Power rating
3. Fuel Usage/Heat Input

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

The permittee shall maintain records of all fuel oil deliveries and testing. If the supplier has conducted the fuel oil analysis on behalf of the permittee, then the permittee shall maintain a copy of the certification provided on the delivery record.

007 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall maintain records sufficient to indicate that the maintenance and operation of the electromotive diesels is consistent with the manufacturer's specifications for the electromotive diesels.

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

Within thirty days after the end of each calendar year, the Permittee shall submit to the Department, a report on the hours of operation for the electromotive diesel A during the calendar year which verifies the capacity factor as less than 5%. A joint submittal of the aforementioned report with Annual Compliance Certificate (per Condition B # 024 and the Condition listed in Section C. VIII) is acceptable to the Department.

[Authority for this Condition is also derived in 25 Pa. Code Section 129.93.]

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

(a) NO_x and VOC RACT for each Electromotive Diesel Unit shall be maintenance and operation of the source in accordance with the manufacturer's specifications and good air pollution control practices.

(b) The annual capacity factor for each EMD shall be less than 5%.

[Authority for this Condition is also derived in 25 Pa. Code Section 129.93.]

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

**SECTION E. Source Group Restrictions.**

Group Name: 3

Group Description: Auxilery Boiler

Sources included in this group

ID	Name
030	AUXILIARY BOILER

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 0.4 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.

002 [25 Pa. Code §123.22]**Combustion units**

(a) Not applicable.

(b) Not applicable.

(c) Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley and Johnstown air basins. Combustion units in these subject air basins shall conform with the following:

(1) General provision. No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from any combustion unit, at any time, in excess of the rate of 3 pounds per million Btu of heat input over any 1-hour period except as provided for in paragraph (4).

(2) Commercial fuel oil. No person may, at any time, offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil in the subject air basins on or after the effective dates listed in this paragraph which contains sulfur in excess of the applicable percentage by weight set forth in the following table:

	Effective August 1, 1979 %	Sulfur
Grades Commercial Fuel Oil No. 2 and Lighter (viscosity less than or equal to 5.82cSt)		0.3

(3) Equivalency provision. Paragraph (2) does not apply to those persons or installations where equipment or processes are used to reduce the emissions from the burning of fuels with a higher sulfur content than that specified in paragraph (2); however, the emissions may not exceed those which would result from the use of the fuels specified in paragraph (2).

(4) Not applicable.

(d) Not applicable.

(e) Not applicable.

II. TESTING REQUIREMENTS.

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



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).

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.

003 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall maintain the source in accordance with the manufacturer's specifications and good air pollution control practices.

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: 4

Group Description: Electromotive diesels -Limited use stationary RICE MACT requirements per 40 CFR 63 Subpart

Sources included in this group

ID	Name
036	ELECTROMOTIVE DIESEL A

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

001 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall use the Electromotive Diesel Generators less than 100 hours per year per unit to demonstrate that the generators are used as limited use stationary RICE as defined in 40 CFR §63.6675.

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.

002 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall maintain this source in accordance with manufacturer's standard and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6590]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**What parts of my plant does this subpart cover?**

This subpart applies to each affected source.

(a) Not applicable.

(b) Stationary RICE subject to limited requirements.

(1) -(2) Not applicable.

(3) The following stationary RICE do not have to meet the requirements of this subpart and of subpart A of this part, including initial notification requirements:

(i)- (iii): Not applicable.

**SECTION E. Source Group Restrictions.**

(iv) Existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(v) - (viii): Not applicable.

(c) Not applicable.

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

**SECTION E. Source Group Restrictions.**

Group Name: 5

Group Description: RICE MACT Subpart ZZZZ for two Emergency Generators

Sources included in this group

ID	Name
106	TWO EMERGENCY DIESEL GENERATORS

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

No person may permit the emission into the outdoor atmosphere of particulate matter from this process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

002 [25 Pa. Code §123.21]**General**

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.

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations and operating limitations?**

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

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. [Non-applicable text omitted]

(c) - (d): Not applicable.

(e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. [Non-applicable text omitted]

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

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

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

(i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests

**SECTION E. Source Group Restrictions.**

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

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

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

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

(4) Not applicable.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

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

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

(a) - (d) : Not applicable.

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

(1) Not applicable.

(2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions;

(3) - (10): Not applicable.

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

(g): Not applicable.

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

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2c, and 2d to this subpart apply.

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

(j) : Not applicable.

IV. RECORDKEEPING REQUIREMENTS.**# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

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

(1) : Not applicable.

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

(3) - (4): Not applicable.

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

(b) - (c) : Not applicable.

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

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

(1) Not applicable.

(2) An existing stationary emergency RICE.

(3) Not applicable.

(f) If you own or operate any of the stationary RICE in paragraphs (f)(1) through (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in §

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63.6640(f)(2)(ii) or (iii) or § 63.6640(f)(4)(ii), the owner (or operator) must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

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

(2) Not applicable.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6660]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****In what form and how long must I keep my records?**

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

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

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

V. REPORTING REQUIREMENTS.**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What reports must I submit and when?**

(a) You must submit each report in Table 7 of this subpart that applies to you.

(b) - (e) : Not applicable.

(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

(g) Not applicable.

VI. WORK PRACTICE REQUIREMENTS.**# 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6602]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations must I meet if I own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?**

If you own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations and other requirements in Table 2c to this subpart which apply to you. [Non-applicable text omitted]

[Excerpt from Table 2c]

1. For Emergency stationary CI RICE you must meet the following except during startup:

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

**SECTION E. Source Group Restrictions.**

During periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

Footnotes to Table 2c

1 If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpart, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

2 Sources have the option to utilize an oil analysis program as described in § 63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2c of this subpart.

3 Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

VII. ADDITIONAL REQUIREMENTS.**# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6590]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What parts of my plant does this subpart cover?**

This subpart applies to each affected source.

(a) Affected source. An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

(1) Existing stationary RICE.

(i) Not applicable.

(ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iii) - (iv): Not applicable.

(2) Not applicable.

(3) Not applicable.

(b) Not applicable.

(c) Not applicable.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6595]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****When do I have to comply with this subpart?**

(a) Affected sources.

(1) If you have [non-applicable text omitted] an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions [non-applicable text omitted] you must comply with the applicable emission limitations and operating limitations no later than May 3, 2013. [Non-applicable text omitted]

(2) - (7) : Not applicable.

**SECTION E. Source Group Restrictions.**

(b) - (c) : Not applicable.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]

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

What are my general requirements for complying with this subpart?

a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.

(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6665]

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

What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you. [Non-applicable text omitted]

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6675]

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

What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act (CAA); in 40 CFR 63.2, the General Provisions of this part; and in this section as follows:

[For a complete list of the terms - see 40 CFR 63.6675]

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation or operating limitation;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation or operating limitation in this subpart during malfunction, regardless of whether or not such failure is permitted by this subpart.

(4) Fails to satisfy the general duty to minimize emissions established by §63.6(e)(1)(i).

Diesel engine means any stationary RICE in which a high boiling point liquid fuel injected into the combustion chamber ignites when the air charge has been compressed to a temperature sufficiently high for auto-ignition. This process is also known as compression ignition.

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is fuel oil number 2. Diesel fuel also includes any non-distillate fuel with comparable physical and chemical properties (e.g. biodiesel) that is suitable for use in compression ignition engines.

**SECTION E. Source Group Restrictions.**

Emergency stationary RICE means any stationary reciprocating internal combustion engine that meets all of the criteria in paragraphs (1) through (3) of this definition. All emergency stationary RICE must comply with the requirements specified in § 63.6640(f) in order to be considered emergency stationary RICE. If the engine does not comply with the requirements specified in § 63.6640(f), then it is not considered to be an emergency stationary RICE under this subpart.

(1) The stationary RICE is operated to provide electrical power or mechanical work during an emergency situation. Examples include stationary RICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary RICE used to pump water in the case of fire or flood, etc.

(2) The stationary RICE is operated under limited circumstances for situations not included in paragraph (1) of this definition, as specified in § 63.6640(f).

(3) The stationary RICE operates as part of a financial arrangement with another entity in situations not included in paragraph (1) of this definition only as allowed in § 63.6640(f)(2)(ii) or (iii) and § 63.6640(f)(4)(i) or (ii).

Engine startup means the time from initial start until applied load and engine and associated equipment reaches steady state or normal operation. For stationary engine with catalytic controls, engine startup means the time from initial start until applied load and engine and associated equipment, including the catalyst, reaches steady state or normal operation.

Four-stroke engine means any type of engine which completes the power cycle in two crankshaft revolutions, with intake and compression strokes in the first revolution and power and exhaust strokes in the second revolution.

Hazardous air pollutants (HAP) means any air pollutants listed in or pursuant to section 112(b) of the CAA.

ISO standard day conditions means 288 degrees Kelvin (15 degrees Celsius), 60 percent relative humidity and 101.3 kilopascals pressure.

Liquid fuel means any fuel in liquid form at standard temperature and pressure, including but not limited to diesel, residual/crude oil, kerosene/naphtha (jet fuel), and gasoline.

Malfunction means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

Responsible official means responsible official as defined in 40 CFR 70.2.

Site-rated HP means the maximum manufacturer's design capacity at engine site conditions.

Stationary reciprocating internal combustion engine (RICE) means any reciprocating internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

Stoichiometric means the theoretical air-to-fuel ratio required for complete combustion.

Subpart means 40 CFR part 63, subpart ZZZZ.

Two-stroke engine means a type of engine which completes the power cycle in single crankshaft revolution by combining the intake and compression operations into one stroke and the power and exhaust operations into a second stroke. This system requires auxiliary scavenging and inherently runs lean of stoichiometric.

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

**SECTION E. Source Group Restrictions.**

Group Name: 6

Group Description: CEMS and COMS conditions for Boilers

Sources included in this group

ID	Name
033	BABCOCK & WILCOX - BOILER 3
034	BABCOCK & WILCOX - BOILER 4
035	BABCOCK & WILCOX - BOILER 5

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

1. In order to demonstrate compliance with the filterable particulate matter emission limit of group 1, condition #001, the permittee shall conduct a performance test to determine the post control emissions of total particulate matter (filterable and condensable) from the above units' stack to T01. The testing shall be performed every two (2) years from the time of the most recent performance test. The initial performance test required by this condition shall be conducted by December 31, 2013. The requirement to perform the performance test is waived for deactivated sources (as defined per 25 PA Code §121.1) that are maintained in accordance with procedures included in a maintenance plan submitted to the Department per 25 PA Code §127.11a (a). If a deactivated source is reactivated in accordance with 25 PA Code §127.11 (a)(a), then the performance test required by this condition shall be conducted no later than the accrual of 720 unit operating hours following reactivation.
2. All testing shall be performed while each source is operating at 90% or greater of the normal maximum heat input (MMBtu/hr), steam production (lb/hr) or electrical output (MW), or under such other conditions, within the capacity of the equipment, as may be requested by the Department. Soot blowing and ash removal must be conducted at normal intervals and testing may not be scheduled to avoid such periods as they are considered to be normal operations.
3. All testing shall be conducted in accordance with any applicable federal regulations. The following federal reference methods, or other test methods approved by the Department prior to testing, shall be used to quantify emissions.
 - 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 filterable particulate matter (FPM) emission concentration (grain/dscf) and emission rate (lbs/hour).
 - c. 40 CFR 60, Appendix A, Method 19 shall be used to determine the particulate matter emission rates in lb/MMBTU.
 - d. 40 CFR 51 Appendix M, Method 202 shall be used to determine the organic and inorganic condensable particulate matter (CPM) concentration (grain/dscf) and emission rate (lbs/hr).
 - e. The emission results (grain/dscf, lbs/hour, and lb/MMBTU) for Methods 5 and 202 shall be summed to calculate the total PM concentrations and emission rates.
4. At least sixty (60) calendar days prior to commencing an emission testing program required by this permit, a test protocol shall be submitted to the Department's Division of Source Testing and Monitoring and the appropriate Regional Office for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
5. At least fifteen (15) calendar days prior to commencing an emission testing program required by this permit, written notification (via hard copy or email message) of the date and time of testing shall be provided to the Department's appropriate Regional Office. Written notification shall also be sent to the Department's Bureau of Air Quality, Division of Source Testing and Monitoring. The notification 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

**SECTION E. Source Group Restrictions.**

Department of such testing. In addition, the emissions testing shall not commence prior to receipt of a protocol acceptance letter from the Department.

6. 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 if applicable.

- 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]
- f. Soot blowing and/or ash removal (Yes/No)
- g. Oxygen level at the economizer [%]
- h. ESP Primary and secondary voltage and current, Spark rate

7. Within fifteen (15) calendar days after completion of the on-site testing portion of an emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Division of Source Testing and Monitoring at RA-epstacktesting@state.pa.us and the appropriate Regional Office indicating the completion date of the on-site testing.

8. 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.

9. 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 permit condition.

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

11. All submittals, besides notifications, shall be accomplished through PSIMS*Online available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp> when it becomes available. 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, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468 with deadlines verified through document postmarks. In a like manner, one copy of the submittal shall be sent to the appropriate Regional Office.

12. 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.

[Frequency of stack testing has been changed from 5 years to 2 years as per "Evaluation of total particulate matter emissions from coal-fired electric generator units final report dated December 22, 2010" and Written by Mr. Gregory D. Parrish, Chief Division of Source testing and monitoring]

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from, 40 CFR Part 75, 40 CFR Sections 52.2020, and 25 Pa. Code Sections 139.4, & 139.101]

- a. Continuous Emission Monitoring Requirements:

**SECTION E. Source Group Restrictions.**

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

For Sources: #033, #034 and #035:

Pollutant	Measurement	Moisture	% O2	Ave. Period	Standard	Basis
NOx	ppm	N/A	N/A	30-day rolling average	0.5 lb/mmbtu	hourly
SO2	ppm	N/A	N/A	Daily average	3.6 lb/mmbtu	hourly
SO2	ppm	N/A	N/A	Daily Average	3.0 lb/mmbtu	hourly

Note: Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with the terms of this permit.

b. Data Availability Standards

1. All the above continuous emission monitoring systems (CEMS) shall, at a minimum, meet one of the following data availability requirements unless otherwise stipulated in this permit, a plan approval, Title 25 or an order issued under Section 4 of the Air Pollution Control Act:

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

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

Note: Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with the terms of this permit.

2. Emission Standard(s) To Which Data Availability Standard applies: Data availability standards apply to NOx in lb/mmbtu hour and SO2 in lbs/mmbtu per hour.

i. 30-day rolling averages for NOx; and daily averages, and 3-hr block averages, for SO2 shall be calculated in accordance with the Data Reduction Criteria in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

c. Certification and Testing Requirements

i. Initial Application (Phase I)

Upon promulgation of a monitoring requirement, a proposal containing information as listed in the Phase I section of the Department's Continuous Source Monitoring Manual for the proposed CEMs must be submitted to the Department 180 days prior to the initial startup of a new source and within 180 days of promulgation of a monitoring requirement for an existing source.

ii. Performance Testing (Phase II)

After approval of Phase I, the applicant shall proceed with purchasing, installation, and performance testing. The CEM Section must be advised in writing at least 45 days prior to Performance Specification Testing to provide the opportunity to observe and participate in all testing. A testing protocol, describing all testing procedures and methodology to be used must accompany the notice of testing. Schedule changes must be reported seven days prior to testing (or as soon as possible) except that failed tests may be repeated immediately. Testing as listed in the Phase II section of the Department's Continuous Source Monitoring Manual must be completed for the CEMS[s] no later than 180

**SECTION E. Source Group Restrictions.**

days after initial source startup and no later than 60 days after the source achieves normal process capacity. During testing, the source must be operated in a manner that is representative of normal operating conditions. All other notifications and performance specification testing must be conducted in accordance with the Department's Continuous Source Monitoring Manual.

iii. Final Approval (Phase III)

The final report of testing as listed in the Phase III section of the Department's Continuous Source Monitoring Manual must be submitted to the Bureau no later than 60 days after completion of the testing. The owner or operator of the source shall not be issued an operating permit until the CEMs have received Phase III approval, in writing from the Department, when installation of a CEMs is made a condition of the plan approval. Until Phase III Department approval is obtained, operation shall be covered solely under condition of a plan approval.

d. Requirements per the Department's Continuous Source Monitoring Manual (CEM Manual) Quality Assurance Section for Continuous Source Emission Monitoring Systems, Subsection "Component Addition Maintenance Replacement.

1. Maintenance

a. Zero and upscale calibration error checks should be conducted immediately prior to any maintenance, if possible.

b. Zero and upscale calibration error checks must be conducted immediately following any maintenance.

c. If the post-maintenance zero or upscale calibration error checks show calibration error in excess of twice the applicable performance specifications, recalibration must be conducted in accordance with the quarterly linearity check procedures in under the Quality Assurance Section paragraph D.2 of the CEM Manual. Measurement devices may be calibrated in-situ.

e) Requirements per Department's Continuous Source Monitoring Manual, Quality Assurance Section for Continuous Source Emission Monitoring Systems, Subsection " Periodic Calibration".

Periodic calibration

Note: Sources may petition the Department to use Federal calibration level requirements rather than those listed below if they can demonstrate that the requirements will not adversely impact the Department's ability to enforce compliance with all applicable requirements.

1. Daily calibration

Note: Sources may petition the Department to use a more stringent applicable Federal daily calibration error check procedure requirement than that listed below (in order to maintain consistency between data considered invalid by multiple agency programs).

a. Calibration must be conducted at least daily when the emission unit is generating for determination of measurement device zero and upscale calibration error on all measurement device ranges, except for fuel flowmeters. Fuel flowmeters must meet the quality assurance requirements specified in Table XIII of this Manual. The results of daily calibrations are calculated as the value of the reference material used minus the measurement device reading and as [the value of the reference material used minus the measurement device reading] divided by the lowest monitored emission standard equivalent.

b. For measurement devices that use calibration gas, the gas must be introduced as close to the point of sample acquisition as possible. For other devices, simulated signals must be applied as close to the point of signal generation as possible.

c. The monitoring system must be adjusted whenever the zero or upscale calibration error performance specifications are exceeded.

d. The zero calibration error check must be conducted at a measurement level at or between 0% and 30% of measurement device range. The value selected must be lower than the lowest value that would be expected to occur under normal source operating conditions.

SECTION E. Source Group Restrictions.

e. The upscale calibration error check must be conducted at a measurement level at or between 40% and 100% of measurement device range. An alternative level may be used, provided it can be demonstrated to better represent normal source operating levels.

003 [40 CFR Part 75 Continuous Emission Monitoring §40 CFR 75.10]**Subpart B--Monitoring Provisions****General operating requirements.**

The requirements in 40 CFR §75.10 apply.

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

[Additional authority for this permit condition is derived from 40 CFR Part 75, 40 CFR Sections 52.2020, and 25 Pa. Code Sections 139.101(5) and 139.101(12).]

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

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

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

3. All data shall be reduced to one-hour averages on a clock basis. The reduction methods must be in accordance with the data validation and reduction criteria of the Department's Quality Assurance Requirements or by an alternate method as approved by the Department.

4. Requirements per the Department's Continuous Source Monitoring Manual, Record Keeping and Recording section, Subsection "Continuous Source Emission Monitoring Systems".

A chronological file shall be maintained by the company that includes:

a. All measurements from the monitoring system on at least the minimum data recording frequency (chart recordings of the proper resolution are acceptable).

b. All valid averages as specified above.

c. The cause, time periods, and magnitude of all emissions that exceed the applicable emission standard(s).

d. Data and results for all tests, audits and recalibrations.

e. A record of any repairs, adjustments, or maintenance to the monitoring system.

f. The data necessary for conversion of the monitoring system data to units consistent with the applicable emission standard or operational criterion, including the values for any manually-adjustable "K-factors" or other "constants".

g. The cause and time periods for any invalid data averages.

h. The process and pollution control equipment operating data for all parameters which have a significant affect the levels of the emissions or operational criterion being monitored.

i. Copies of the Phase I application, Phase II testing protocol, Phase III performance specification testing report and all correspondence related thereto.

j. Records of all corrective actions taken in response to exceedances of emission standards, operational criteria or data availability standards.

**SECTION E. Source Group Restrictions.****V. REPORTING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from, 40 CFR Part 75, 40 CFR Sections 52.2020, and 25 Pa. Code Sections 139.101(1)(iv)4, 139.101(10) & 139.101(12)]

1. The permittee shall submit quarterly reports of continuous emission monitoring to the Department in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), the "Record Keeping and Reporting" requirements as established in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001.
2. The permittee shall report emissions for all periods of unit operation, including startup, shutdown and malfunction.
3. Initial quarterly reports following system certification shall be submitted to the Department within 35 days, following the date upon which the Department notifies the owner or operator, in writing, of the approval of the continuous source monitoring system for use in determining compliance with applicable emission standards, unless the Department approves an alternative schedule.
4. Subsequent quarterly reports shall be submitted to the Department within 30 days after the end of each calendar quarter.
5. Subsequent data report changes must be submitted in accordance with the Department's CEM Manual Revision #8.
6. Failure to submit required reports of continuous emission monitoring within the time periods specified in this Condition, shall constitute violations of this Permit, unless approved in advance by the Department in writing.

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

7. The following information shall be reported to the Department on a calendar quarter basis:

- a. Information in accordance with the appropriate electronic data report record formats in Attachment No. 3 of the COM manual or as specified by the Department.
- b. The results from all tests, audits and recalibrations conducted during the quarter. In addition to information already included in the electronic data format referenced in "a", above, report only the overall results of an "Periodic Self-audit" indicating the compliance status of the monitoring system with respect to the applicable performance specification. The complete report of such testing must be submitted to the Department under separate cover in accordance with the requirements of the "Final Approval (Phase III)" section of this manual which are also referenced in the "Quality Assurance" section of this manual.
8. The report shall be submitted to the central office by the 30th day following the close of the reporting period. (NOTE: Delinquency penalties, in accordance with an applicable compliance assurance policy or enforcement policy, may apply to reports received after this time).
9. The report shall be submitted in a format specified by the Department and must be signed by the person exercising managerial responsibility over the operation of the source(s) for which monitoring is required or by the designated representative pursuant to 40 CFR 75.

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

Quality Assurance Requirements:

**SECTION E. Source Group Restrictions.**

[Additional authority for this permit condition is derived from, 40 CFR Part 75, 40 CFR Sections 52.2020, and 25 Pa. Code Sections 139.101(1)(iv), 139.101(2), 139.101(3), 139.101(4), 139.101(6), 139.101(7), 139.101(8), 139.101(12), 139.101(14), and 139.101(15)]

Continuous Emission Monitoring Systems and components must be operated and maintained in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), the "Quality Assurance" requirements in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001, except where alternative methods have been approved by the Department via formal petition. Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit.

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

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

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

b. Unless otherwise required by this permit, the permittee shall comply with applicable monitoring, quality assurance, recordkeeping and reporting requirements of the Air Pollution Control Act, 25 Pa. Code, Subpart C, Article III (relating to air resources), including Chapter 139 (relating to sampling and testing). The permittee shall also comply with applicable requirements related to monitoring, quality assurance, reporting and recordkeeping required by the Clean Air Act §§ 114(a)(3) and 504(b) and regulations adopted thereunder, unless otherwise required by this permit.

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

**SECTION E. Source Group Restrictions.**

Group Name: 7

Group Description: Utility MACT

Sources included in this group

ID	Name
033	BABCOCK & WILCOX - BOILER 3
034	BABCOCK & WILCOX - BOILER 4
035	BABCOCK & WILCOX - BOILER 5

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10005]

SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units

What are my initial compliance requirements and by what date must I conduct them?

The requirements in 40 CFR §63.10005 apply.

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10006]

SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units

When must I conduct subsequent performance tests or tune-ups?

The requirements in 40 CFR §63.10006 apply.

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10007]

SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units

What methods and other procedures must I use for the performance tests?

The requirements in 40 CFR §63.10007 apply.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10009]

SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units

**SECTION E. Source Group Restrictions.****May I use emissions averaging to comply with this subpart?**

The requirements in 40 CFR §63.10009 apply.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10010]**SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units****What are my monitoring, installation, operation, and maintenance requirements?**

The requirements in 40 CFR §63.10010 apply.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10011]**SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units****How do I demonstrate initial compliance with the emissions limits and work practice standards?**

The requirements in 40 CFR §63.10011 apply.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10020]**SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units****How do I monitor and collect data to demonstrate continuous compliance?**

The requirements in 40 CFR §63.10020 apply.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10021]**SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units****How do I demonstrate continuous compliance with the emission limitations, operating limits, and work practice standards?**

The requirements in 40 CFR §63.10021 apply.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10022]**SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units****How do I demonstrate continuous compliance under the emissions averaging provision?**

The requirements in 40 CFR §63.10022 apply.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10023]**SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units****How do I establish my PM CPMS operating limit and determine compliance with it?**

The requirements in 40 CFR §63.10023 apply.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10030]**SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units****What notifications must I submit and when?**

The requirements in 40 CFR §63.10030 apply.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10031]**SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units****What reports must I submit and when?**

The requirements in 40 CFR §63.10031 apply.

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10032]**SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units****What records must I keep?**

The requirements of 40 CFR §63.10032 apply. The format and duration of the record keeping requirements must adhere to 40 §CFR 63.10033.

**SECTION E. Source Group Restrictions.**

**# 014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10040]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units**

What parts of the General Provisions apply to me?

The requirements in 40 CFR §63.10040 apply.

**# 015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10041]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units**

Who implements and enforces this subpart?

The requirements in 40 CFR §63.10041 apply.

**# 016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart 63.10042]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units**

What definitions apply to this subpart?

The requirements in 40 CFR §63.10042 apply.

**# 017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR subpart 63.10000]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units**

What are my general requirements for complying with this subpart?

The requirements in 40 CFR §63.10000 apply.

**# 018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR subpart 63.10001]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units**

Affirmative defense for exceedence of emission limit during malfunction.

The requirements in 40 CFR §63.10001 apply.

**# 019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR subpart 63.9991]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units**

What emission limitations, work practice standards, and operating limits must I meet?

The requirements in 40 CFR §63.9991 apply.

**# 020 [40 CFR Part 63 NESHAPS for Source Categories §Appendix A to Subpart UUUUU of Part 63]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units**

Hg Monitoring Provisions

The requirements in Appendix A to Subpart UUUUU of Part 63 apply.

**# 021 [40 CFR Part 63 NESHAPS for Source Categories §Appendix B to Subpart UUUUU of Part 63]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units**

HCl and HF Monitoring Provisions

The requirements in Appendix B to Subpart UUUUU of Part 63 apply.

**# 022 [40 CFR Part 63 NESHAPS for Source Categories §Table 2 to Subpart UUUUU of Part 63]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units**

Emission Limits for Existing EGUs

The requirements in Table 2 to Subpart UUUUU of Part 63 apply.

**# 023 [40 CFR Part 63 NESHAPS for Source Categories §Table 3 to Subpart UUUUU of Part 63]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units**

Work Practice Standards

The requirements in Table 3 to Subpart UUUUU of Part 63 apply.

**SECTION E. Source Group Restrictions.**

**# 024 [40 CFR Part 63 NESHAPS for Source Categories §Table 4 to Subpart UUUUU of Part 63]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units
Operating Limits for EGUs**

The requirements in Table 4 to Subpart UUUUU of Part 63 apply.

**# 025 [40 CFR Part 63 NESHAPS for Source Categories §Table 5 to Subpart UUUUU of Part 63]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units
Performance Testing Requirements**

The requirements in Table 5 to Subpart UUUUU of Part 63 apply.

**# 026 [40 CFR Part 63 NESHAPS for Source Categories §Table 6 to Subpart UUUUU of Part 63]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units
Establishing PM CPMS Operating Limits**

The requirements in Table 6 to Subpart UUUUU of Part 63 apply.

**# 027 [40 CFR Part 63 NESHAPS for Source Categories §Table 7 to Subpart UUUUU]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units
Demonstrating Continuous Compliance**

The requirements in Table 7 to Subpart UUUUU of Part 63 apply.

**# 028 [40 CFR Part 63 NESHAPS for Source Categories §Table 8 to Subpart UUUUU]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units
Reporting Requirements**

The requirements in Table 8 to Subpart UUUUU of Part 63 apply.

**# 029 [40 CFR Part 63 NESHAPS for Source Categories §Table 9 to Subpart UUUUU]
SUBPART UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units
Applicability of General Provisions to Subpart UUUUU**

The requirements in Table 9 to Subpart UUUUU of Part 63 apply.

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

**SECTION E. Source Group Restrictions.**

Group Name: 8

Group Description: Boiler MACT 40 CFR 63 Subpart DDDDD

Sources included in this group

ID	Name
030	AUXILIARY BOILER

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.**# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7555]****Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.****What records must I keep?**

(a) You must keep records according to paragraphs (a)(1) and (2) of this section.

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

(2) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in § 63.10(b)(2)(viii).

(b) - (h) Not applicable.

(i) You must maintain records of the calendar date, time, occurrence and duration of each startup and shutdown.

(j) You must maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown.

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7560]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.****In what form and how long must I keep my records?**

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

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

(c) You must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to § 63.10(b)(1). You can keep the records off site for the remaining 3 years.

V. REPORTING REQUIREMENTS.**# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7530]****Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.**

**SECTION E. Source Group Restrictions.****How do I demonstrate initial compliance with the emission limits and work practice standards?**

(a) - (c) Not applicable

(d) If you own or operate an existing unit with a heat input capacity of less than 10 million Btu per hour or a unit in the unit designed to burn gas 1 subcategory, you must submit a signed statement in the Notification of Compliance Status report that indicates that you conducted a tune-up of the unit.

(e) You must include with the Notification of Compliance Status a signed certification that the energy assessment was completed according to Table 3 to this subpart and is an accurate depiction of your facility at the time of the assessment.

(f) - (i) Not applicable.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7545]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.****What notifications must I submit and when?**

(a) You must submit to the Administrator all of the notifications in §63.9(b) and (h) that apply to you by the dates specified. [non applicable text omitted]

(b) As specified in § 63.9(b)(2), if you startup your affected source before January 31, 2013, you must submit an Initial Notification not later than 120 days after January 31, 2013. [Compliance with this requirement was demonstrated with the 10-25-12 receipt of the Initial Notification.]

(c) - (d) Not applicable.

(e) If you are required to conduct an initial compliance demonstration as specified in § 63.7530, you must submit a Notification of Compliance Status according to § 63.9(h)(2)(ii). For the initial compliance demonstration for each boiler or process heater, you must submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for all boiler or process heaters at the facility according to § 63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in paragraphs (e)(1) through (8), as applicable. If you are not required to conduct an initial compliance demonstration as specified in § 63.7530(a), the Notification of Compliance Status must only contain the information specified in paragraphs (e)(1) and (8).

(1) A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under § 241.3 of this chapter, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of § 241.3 of this chapter, and justification for the selection of fuel(s) burned during the compliance demonstration.

(2) - (5) Not applicable.

(6) A signed certification that you have met all applicable emission limits and work practice standards.

(7) If you had a deviation from any emission limit, work practice standard, or operating limit, you must also submit a description of the deviation, the duration of the deviation, and the corrective action taken in the Notification of Compliance Status report.

(8) In addition to the information required in § 63.9(h)(2), your notification of compliance status must include the following certification(s) of compliance, as applicable, and signed by a responsible official:

(i) "This facility complies with the required initial tune-up according to the procedures in § 63.7540(a)(10)(i) through (vi)."

(ii) "This facility has had an energy assessment performed according to § 63.7530(e)."

**SECTION E. Source Group Restrictions.**

(iii) Except for units that burn only natural gas, refinery gas, or other gas 1 fuel, or units that qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act, include the following: "No secondary materials that are solid waste were combusted in any affected unit."

(f) - (h) Not applicable.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7550]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

What reports must I submit and when?

(a) You must submit each report in Table 9 to this subpart that applies to you.

[Excerpt from Table 9]

1. You must submit a compliance report. The compliance report must contain:

- a. Information required in § 63.7550(c)(1) through (5);
- b. If there are no deviations from any emission limitation (emission limit and operating limit) that applies to you and there are no deviations from the requirements for work practice standards in Table 3 to this subpart that apply to you, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. You must submit the report biennially according to the requirements in § 63.7550(b).

(b) Unless the EPA Administrator has approved a different schedule for submission of reports under § 63.10(a), you must submit each report, according to paragraph (h) of this section, by the date in Table 9 to this subpart and according to the requirements in paragraphs (b)(1) through (4) of this section. For units that are subject only to a requirement to conduct an annual, biennial, or 5-year tune-up according to § 63.7540(a)(10), (11), or (12), respectively, and not subject to emission limits or operating limits, you may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of this section, instead of a semi-annual compliance report.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in § 63.7495 and ending on July 31 or January 31, whichever date is the first date that occurs at least 180 days (or 1, 2, or 5 years, as applicable, if submitting an annual, biennial, or 5-year compliance report) after the compliance date that is specified for your source in § 63.7495.

(2) The first compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in § 63.7495. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31.

(4) Each subsequent compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31.

(c) A compliance report must contain the following information depending on how the facility chooses to comply with the limits set in this rule.

(1) If the facility is subject to a the requirements of a tune up they must submit a compliance report with the information in paragraphs (c)(5)(i) through (iv) and (xiv) of this section.

(2) - (4) Not applicable.

(5)(i) Company and Facility name and address.

**SECTION E. Source Group Restrictions.**

(ii) Process unit information, emissions limitations, and operating parameter limitations.

(iii) Date of report and beginning and ending dates of the reporting period.

(iv) The total operating time during the reporting period.

(v) - (xii) Not applicable.

(xiv) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up according to § 63.7540(a)(10), (11), or (12) respectively. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown.

(xv) - (xvi) Not applicable.

(xvii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(d) - (e) Not applicable.

(f) - (g) [Reserved]

(h) You must submit the reports according to the procedures specified in paragraphs (h)(1) through (3) of this section.

(1) - (2) Not applicable.

(3) You must submit all reports required by Table 9 of this subpart electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report you must submit the report to the Administrator at the appropriate address listed in § 63.13. At the discretion of the Administrator, you must also submit these reports, to the Administrator in the format specified by the Administrator.

VI. WORK PRACTICE REQUIREMENTS.**# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7500]****Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.****What emission limits, work practice standards, and operating limits must I meet?**

(a) You must meet the requirements in paragraphs (a)(1) through (3) of this section, except as provided in paragraphs (b), through (e) of this section. You must meet these requirements at all times the affected unit is operating, except as provided in paragraph (f) of this section.

(1) You must meet each work practice standard in Table 3 to this subpart that applies to your boiler or process heater, for each boiler or process heater at your source. [Non applicable text omitted]

[Excerpt from Table 3]

Item 2 - If your unit is a new or existing boiler or process heater with heat input capacity of less than 10 million Btu per hour, but greater than 5 million Btu per hour, in any of the following subcategories: unit designed to burn gas 1; unit designed to burn gas 2 (other); or unit designed to burn light liquid; You must conduct a tune-up of the boiler or process heater biennially as specified in § 63.7540.

Item 4 - If your unit is an existing boiler or process heater located at a major source facility, not including limited use units, you must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in this table, satisfies the energy assessment requirement. A facility that operates under an energy management program compatible with ISO 50001 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include the following with extent of the evaluation for items a. to e. appropriate for the on-site technical hours listed in § 63.7575:

**SECTION E. Source Group Restrictions.**

- a. A visual inspection of the boiler or process heater system.
- b. An evaluation of operating characteristics of the boiler or process heater systems, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints.
- c. An inventory of major energy use systems consuming energy from affected boilers and process heaters and which are under the control of the boiler/process heater owner/operator.
- d. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage.
- e. A review of the facility's energy management practices and provide recommendations for improvements consistent with the definition of energy management practices, if identified.
- f. A list of cost-effective energy conservation measures that are within the facility's control.
- g. A list of the energy savings potential of the energy conservation measures identified.
- h. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

(2) Not applicable

(3) At all times, you must operate and maintain any affected source (as defined in § 63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(b) - (e) Not applicable.

(f) These standards apply at all times the affected unit is operating, except during periods of startup and shutdown during which time you must comply only with Table 3 to this subpart.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7505]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limits, work practice standards, and operating limits in this subpart. These limits apply to you at all times the affected unit is operating except for the periods noted in § 63.7500(f).

[All other conditions are not applicable]

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7510]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

What are my initial compliance requirements and by what date must I conduct them?

(a) - (d) Not applicable.

(e) For existing affected sources (as defined in § 63.7490), you must complete the initial compliance demonstration, as specified in paragraphs (a) through (d) of this section, no later than 180 days after the compliance date that is specified for your source in § 63.7495 and according to the applicable provisions in § 63.7(a)(2) as cited in Table 10 to this subpart, except as specified in paragraph (j) of this section. You must complete an initial tune-up by following the procedures described in § 63.7540(a)(10)(i) through (vi) no later than the compliance date specified in § 63.7495, except as specified in paragraph (j) of this section. You must complete the one-time energy assessment specified in Table 3 to this subpart no later than the compliance date specified in § 63.7495, except as specified in paragraph (j) of this section.

(f) - (i) Not applicable.

(j) For existing affected sources (as defined in § 63.7490) that have not operated between the effective date of the rule and the compliance date that is specified for your source in § 63.7495, you must complete the initial compliance demonstration, if subject to the emission limits in Table 2 to this subpart, as specified in paragraphs (a) through (d) of this section, no later than 180 days after the re-start of the affected source and according to the applicable provisions in § 63.7(a)(2) as cited in

**SECTION E. Source Group Restrictions.**

Table 10 to this subpart. You must complete an initial tune-up by following the procedures described in § 63.7540(a)(10)(i) through (vi) no later than 30 days after the re-start of the affected source and, if applicable, complete the one-time energy assessment specified in Table 3 to this subpart, no later than the compliance date specified in § 63.7495.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7515]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.****When must I conduct subsequent performance tests or fuel analyses?**

(a) - (c) Not applicable.

(d) If you are required to meet an applicable tune-up work practice standard, you must conduct a biennial performance tune-up according to § 63.7540(a)(10) and (11). Each biennial tune-up specified in § 63.7540(a)(11) must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed affected source (as defined in § 63.7490), the first annual, biennial, or 5-year tune-up must be no later than 13 months, 25 months, or 61 months, respectively, after the initial startup of the new or reconstructed affected source.[Non applicable text omitted]

(e) - (f) Not applicable.

(g) For affected sources (as defined in § 63.7490) that have not operated since the previous compliance demonstration and more than one year has passed since the previous compliance demonstration, you must complete the subsequent compliance demonstration, if subject to the emission limits in Tables 1, 2, or 11 through 13 to this subpart, no later than 180 days after the re-start of the affected source and according to the applicable provisions in § 63.7(a)(2) as cited in Table 10 to this subpart. You must complete a subsequent tune-up by following the procedures described in § 63.7540(a)(10)(i) through (vi) and the schedule described in § 63.7540(a)(13) for units that are not operating at the time of their scheduled tune-up.

(h) - (i) Not applicable.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7540]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.****How do I demonstrate continuous compliance with the emission limits and work practice standards?**

(a) You must demonstrate continuous compliance with each emission limit in Tables 1 and 2 or 11 through 13 to this subpart, the work practice standards in Table 3 to this subpart, and the operating limits in Table 4 to this subpart that applies to you according to the methods specified in Table 8 to this subpart and paragraphs (a)(1) through (19) of this section.

(1) - (9) Not applicable

(10)(i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;

(ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;

(iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;

(iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject;

(v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and

**SECTION E. Source Group Restrictions.**

(vi) Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (a)(10)(vi)(A) through (C) of this section,

(A) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;

(B) A description of any corrective actions taken as a part of the tune-up; and

(C) The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

(11) If your boiler or process heater has a heat input capacity of less than 10 million Btu per hour (except as specified in paragraph (a)(12) of this section), you must conduct a biennial tune-up of the boiler or process heater as specified in paragraphs (a)(10)(i) through (vi) of this section to demonstrate continuous compliance.

(12) Not applicable

(13) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup.

(14) - (19) Not applicable.

(b) - (d) Not applicable.

VII. ADDITIONAL REQUIREMENTS.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7495]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

When do I have to comply with this subpart?

(a) Not applicable.

(b) If you have an existing boiler or process heater, you must comply with this subpart no later than January 31, 2016, except as provided in § 63.6(i).

(c) Not applicable.

(d) You must meet the notification requirements in § 63.7545 according to the schedule in § 63.7545 and in subpart A of this part. Some of the notifications must be submitted before you are required to comply with the emission limits and work practice standards in this subpart.

(e) - (g) Not applicable

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7565]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

What parts of the General Provisions apply to me?

Table 10 to this subpart shows which parts of the General Provisions in §§ 63.1 through 63.15 apply to you.

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7575]

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters.

What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in § 63.2 (the General Provisions), and in this section and can be found in 40 CFR §63.7575.

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

**SECTION F. Alternative Operation Requirements.**

Alternative Operation Name: SNCR OPERATION

#001 CHANGES FROM NORMAL OPERATION

This AOS is for when the boilers will operate the SNCR system for minimizing the NOx emissions.

Sources included in this Alternative Operation:

ID	Name	Source Type
033	BABCOCK & WILCOX - BOILER 3	Combustion Unit

Alternative Operation Map:

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

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The ammonia slippage from the SNCR system shall not exceed 10 ppmv at stack condition.

[From: Plan approval # 37-023D, condition # 006]

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall conduct stack testing, as approved by the Department, for ammonia slippage within eighteen months immediately prior to the expiration date of this permit. For the purpose of determining compliance with ammonia slippage in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. The stack test shall be performed while the aforementioned source is operating at the maximum or normal rated capacity as stated on the application. Performing a stack test prior to Department approval of the protocol may invalidate the results.

- At least 60 days prior to source testing, three copies of the test procedure and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples shall be submitted to the Regional Air Quality Office.
- Within 90 days of the Departmental approval of the stack test protocol, stack tests shall be conducted in accordance with the 40 CFR 60.754(d) and the Department's source testing procedures described in the latest Source Testing Manual referenced in 25 Pa Code Section 139.4(5).
- At least two weeks prior to the test, the Regional Air Quality Manager shall be informed, in writing, of the date and time of the test.
- The stack test shall be performed while the aforementioned source is operating at the maximum rated capacity as stated on the application.
- All available operating parameters, including but not limited to ammonia injection rate, shall be recorded during the duration of the stack tests.
- Within 60 days after completion of the test, three copies of the complete test report, including all operating parameters,

**SECTION F. Alternative Operation Requirements.**

shall be submitted to the Regional Air Quality Manager for approval.

7. Actions Related to Noncompliance Demonstrated by a Stack Test:

(i) If the results of a stack test, performed as required by this approval, exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. Within 30 days of the Permittee receiving the stack test results, a written description of the corrective actions shall be submitted to the Department. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. The Department shall notify the Permittee within 30 days, if the corrective actions taken are deficient. Within 30 days of receipt of the notice of deficiency, the Permittee shall submit a description of additional corrective actions to the Department. The Department reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(ii) If the results of the required stack test exceed any limit defined in this plan approval, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the plan approval, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee receiving the original stack test results, a retest shall be performed. The Department may extend the retesting deadline if the Permittee demonstrates, to the Department's satisfaction, that retesting within 120 days is not practicable. Failure of the second test to demonstrate compliance with the limits in the plan approval, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the plan approval may be grounds for immediate revocation of the plan approval to operate the affected source.

[From: Plan approval # 37-023D, condition # 007]

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

Because the permittee operates the SNCR system as a discretionary pollution control device (per Condition F#005(b) below), performance of a stack testing program referenced in Condition E#E002(a) above is not required if the permittee does not operate the SNCR system within 18 months immediately prior to the expiration date of this permit. The permittee shall maintain sufficient records to document the operational status of the SNCR system. These records will be provided to the Department upon request. Upon approval of the Department, any stack test program performed per this condition and condition #002 above may be performed as part of the stack test program required by Condition #001, of Section E, Group Name 6 (CEMS and COMS Conditions for Boilers).

[From: permit application, pursuant to condition #002 above]

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.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The reducing agent to be used shall either be a urea solution and/or a 19% aqueous ammonia solution.

(b) The SNCR system shall be installed, operated and maintained in accordance with the manufacturer specifications and consistent with good air pollution control practices.

**SECTION F. Alternative Operation Requirements.**

[Plan approval # 37-032D, condition # 008]

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

- (a) The conditions listed in Section D for this source remain in effect along with any conditions listed in Section E.
- (b) It is not an enforceable requirement that the SNCR system operates at any given time.

[From: Plan approval # 37-023D, condition # 009]

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

SECTION F. Alternative Operation Requirements.

Alternative Operation Name: SNCR OPERATION

#001 CHANGES FROM NORMAL OPERATION

This AOS is for when the boilers will operate the SNCR system for minimizing the NOx emissions.

Sources included in this Alternative Operation:

ID	Name	Source Type
035	BABCOCK & WILCOX - BOILER 5	Combustion Unit

Alternative Operation Map:



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The ammonia slippage from the SNCR system shall not exceed 10 ppmv at stack conditions.

[From: Plan approval # 37-023D, condition # 010]

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall conduct stack testing, as approved by the Department, for ammonia slippage within eighteen months immediately prior to the expiration date of this permit. For the purpose of determining compliance with ammonia slippage in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. The stack test shall be performed while the aforementioned source is operating at the maximum or normal rated capacity as stated on the application. Performing a stack test prior to Department approval of the protocol may invalidate the results.

1. At least 60 days prior to source testing, three copies of the test procedure and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples shall be submitted to the Regional Air Quality Office.
2. Within 90 days of the Departmental approval of the stack test protocol, stack tests shall be conducted in accordance with the 40 CFR 60.754(d) and the Department's source testing procedures described in the latest Source Testing Manual referenced in 25 Pa Code Section 139.4(5).
3. At least two weeks prior to the test, the Regional Air Quality Manager shall be informed, in writing, of the date and time of the test.
4. The stack test shall be performed while the aforementioned source is operating at the maximum rated capacity as stated on the application.
5. All available operating parameters, including but not limited to ammonia injection rate, shall be recorded during the duration of the stack tests.
6. Within 60 days after completion of the test, three copies of the complete test report, including all operating parameters,

**SECTION F. Alternative Operation Requirements.**

shall be submitted to the Regional Air Quality Manager for approval.

7. Actions Related to Noncompliance Demonstrated by a Stack Test:

(i) If the results of a stack test, performed as required by this approval, exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. Within 30 days of the Permittee receiving the stack test results, a written description of the corrective actions shall be submitted to the Department. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. The Department shall notify the Permittee within 30 days, if the corrective actions taken are deficient. Within 30 days of receipt of the notice of deficiency, the Permittee shall submit a description of additional corrective actions to the Department. The Department reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(ii) If the results of the required stack test exceed any limit defined in this plan approval, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the plan approval, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee receiving the original stack test results, a retest shall be performed. The Department may extend the retesting deadline if the Permittee demonstrates, to the Department's satisfaction, that retesting within 120 days is not practicable. Failure of the second test to demonstrate compliance with the limits in the plan approval, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the plan approval may be grounds for immediate revocation of the plan approval to operate the affected source.

[From: Plan approval # 37-023D, condition # 011]

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

Because the permittee operates the SNCR system as a discretionary pollution control device (per Condition #005(b) below), performance of a stack testing program referenced in Condition #E002(a) above is not required if the permittee does not operate the SNCR system within 18 months immediately prior to the expiration date of this permit. The permittee shall maintain sufficient records to document the operational status of the SNCR system. These records will be provided to the Department upon request. Upon approval of the Department, any stack test program performed per this condition and condition #002 above may be performed as part of the stack test program required by Condition #001 of Section E, Group Name 6 (CEMS and COMS conditions for Boilers).

[From: permit application, pursuant to condition #002 above]

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.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The reducing agent to be used shall either be a urea solution and/or a 19% aqueous ammonia solution.

(b) The SNCR system shall be installed, operated and maintained in accordance with the manufacturer specifications and consistent with good air pollution control practices.

**SECTION F. Alternative Operation Requirements.**

[From: Plan approval # 37-023D, condition # 012]

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

- (a) The conditions listed in Section D for this source remain in effect along with any conditions listed in Section E.
- (b) It is not an enforceable requirement that the SNCR system operates at any given time.

[From: Plan approval # 37-023D, condition # 013]

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

SECTION F. Alternative Operation Requirements.

Alternative Operation Name: SNCR OPERATION

#001 CHANGES FROM NORMAL OPERATION

This AOS is for when the boilers will operate the SNCR system for minimizing the NOx emissions.

Sources included in this Alternative Operation:

ID	Name	Source Type
034	BABCOCK & WILCOX - BOILER 4	Combustion Unit

Alternative Operation Map:



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The ammonia slippage from the SNCR system shall not exceed 10 ppmv at stack conditions.

[From: Plan approval # 37-023D, condition # 002]

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall conduct stack testing, as approved by the Department, for ammonia slippage within eighteen months immediately prior to the expiration date of this permit. For the purpose of determining compliance with ammonia slippage in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. The stack test shall be performed while the aforementioned source is operating at the maximum or normal rated capacity as stated on the application. Performing a stack test prior to Department approval of the protocol may invalidate the results.

1. At least 60 days prior to source testing, three copies of the test procedure and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples shall be submitted to the Regional Air Quality Office.
2. Within 90 days of the Departmental approval of the stack test protocol, stack tests shall be conducted in accordance with the 40 CFR 60.754(d) and the Department's source testing procedures described in the latest Source Testing Manual referenced in 25 Pa Code Section 139.4(5).
3. At least two weeks prior to the test, the Regional Air Quality Manager shall be informed, in writing, of the date and time of the test.
4. The stack test shall be performed while the aforementioned source is operating at the maximum rated capacity as stated on the application.
5. All available operating parameters, including but not limited to ammonia injection rate, shall be recorded during the duration of the stack tests.
6. Within 60 days after completion of the test, three copies of the complete test report, including all operating parameters,

**SECTION F. Alternative Operation Requirements.**

shall be submitted to the Regional Air Quality Manager for approval.

7. Actions Related to Noncompliance Demonstrated by a Stack Test:

(i) If the results of a stack test, performed as required by this approval, exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. Within 30 days of the Permittee receiving the stack test results, a written description of the corrective actions shall be submitted to the Department. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. The Department shall notify the Permittee within 30 days, if the corrective actions taken are deficient. Within 30 days of receipt of the notice of deficiency, the Permittee shall submit a description of additional corrective actions to the Department. The Department reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(ii) If the results of the required stack test exceed any limit defined in this plan approval, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the plan approval, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee receiving the original stack test results, a retest shall be performed. The Department may extend the retesting deadline if the Permittee demonstrates, to the Department's satisfaction, that retesting within 120 days is not practicable. Failure of the second test to demonstrate compliance with the limits in the plan approval, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the plan approval may be grounds for immediate revocation of the plan approval to operate the affected source.

[From: Plan approval # 37-023D, condition # 003]

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

Because the permittee operates the SNCR system as a discretionary pollution control device (per Condition #005(b) below), performance of a stack testing program referenced in Condition #E002(a) above is not required if the permittee does not operate the SNCR system within 18 months immediately prior to the expiration date of this permit. The permittee shall maintain sufficient records to document the operational status of the SNCR system. These records will be provided to the Department upon request. Upon approval of the Department, any stack test program performed per this condition and condition #002 above may be performed as part of the stack test program required by Condition #001 of Section E, Group Name 6 (CEMS and COMs conditions for Boilers)

[From: permit application, pursuant to condition #002 above]

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.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The reducing agent to be used shall either be a urea solution and/or a 19% aqueous ammonia solution.

(b) The SNCR system shall be installed, operated and maintained in accordance with the manufacturer specifications and consistent with good air pollution control practices.

**SECTION F. Alternative Operation Requirements.**

[From: Plan approval # 37-023D, condition # 004]

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

- (a) The conditions listed in Section D for this source remain in effect along with any conditions listed in Section E.
- (b) It is not an enforceable requirement that the SNCR system operates at any given time.

[From: Plan approval # 37-023D, condition # 005]

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

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
030	AUXILIARY BOILER		
Emission Limit		Pollutant	
0.400	Lbs/MMBTU	of heat input.	TSP
033	BABCOCK & WILCOX - BOILER 3		
Emission Limit		Pollutant	
0.500	Lbs/MMBTU	each boiler based on a 30-day rolling average	NOX
2.800	Lbs	per 106 BTU heat input, based on 30 days running average.	SOX
3.000	Lbs	per 106 BTU heat input based on daily average not be exceeded more than 2 days in any running 30-day period.	SOX
3.600	Lbs	per 106 BTU heat input, based on daily average maximum not to be exceeded at any time.	SOX
0.100	Lbs/MMBTU		TSP
034	BABCOCK & WILCOX - BOILER 4		
Emission Limit		Pollutant	
0.500	Lbs/MMBTU	each boiler based on a 30-day rolling average	NOX
2.800	Lbs	per 106 BTU heat input, based on 30 days running average.	SOX
3.000	Lbs	per 106 BTU heat input based on daily average not be exceeded more than 2 days in any running 30-day period.	SOX
3.600	Lbs	per 106 BTU heat input, based on daily average maximum not to be exceeded at any time.	SOX
0.100	Lbs/MMBTU		TSP
035	BABCOCK & WILCOX - BOILER 5		
Emission Limit		Pollutant	
0.500	Lbs/MMBTU	each boiler based on a 30-day rolling average	NOX
2.800	Lbs	per 106 BTU heat input, based on 30 days running average.	SOX
3.000	Lbs	per 106 BTU heat input based on daily average not be exceeded more than 2 days in any running 30-day period.	SOX
3.600	Lbs	per 106 BTU heat input, based on daily average maximum not to be exceeded at any time.	SOX
0.100	Lbs/MMBTU		TSP
036	ELECTROMOTIVE DIESEL A		
Emission Limit		Pollutant	
500.000	PPMV	Dry basis	SOX
0.040	gr/DRY FT3		TSP



SECTION G. Emission Restriction Summary.

Source Id	Source Description		
106	TWO EMERGENCY DIESEL GENERATORS		
Emission Limit		Pollutant	
500.000	PPMV	Dry basis	SOX
0.040	gr/DRY FT3		TSP

Site Emission Restriction Summary

Emission Limit	Pollutant
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Alternative Operation Emission Restriction Summary

Source Id	Source Description
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**SECTION H. Miscellaneous.**

- (a) The actual enforceable emission limits with the correct number of significant digits are listed under each source in Sections D, E and F of this permit. The Emission Restriction Summary listed in Section G of this permit is for information purposes only and is not to be used to establish any enforceable limits.
- (b) The following sources at the facility have no applicable emission limits or monitoring, testing, recordkeeping, reporting, work practice, or other requirements:
- (1) 1,000 gallon Gasoline Underground Storage Tank.
 - (2) One 500 Gallons diesel oil tanks for two emergency diesel generators.
 - (3) Sand blasting operation
 - (4) Welding operation
 - (5) Grinding operation
- (c) The expiration date shown in this permit and RACT Operating Permit No. 37-023 is for State purposes only. For Federal enforcement purposes, the RACT provisions of this Operating Permit shall remain in effect as part of the State Implementation Plan (SIP) until replaced pursuant to 40 CFR Part 51 and approved by the US Environmental Protection Agency (USEPA).
- (d) In accordance with 25 Pa. Code Section 123.121, the emission limitations and monitoring requirements established in this permit pursuant to 25 Pa. Code Sections 123.101-123.120 are replaced by the requirements of 25 Pa. Code Chapter 145 beginning with the May 1, 2003 control period.
- (e) This permit was administratively amended on February 22, 2002 to incorporate the newly applicable requirements from the NOx Budget Permit No. 37-00023 issued on March 23, 2001.
- (f) This permit was reissued on January 23, 2007 with an expiration date of December 31, 2011.
- (g) This permit was modified on December 4, 2007 to incorporate the renewal of the Phase II Acid Rain Permit which is effective for January 1, 2008 through December 21, 2012.
- (h) The permit was amended on August 5, 2008 to change the name of the responsible official.
- (i) Compliance certifications may be e-mailed to the Administrator R3_APD_Permits@epa.gov in lieu of mailing a hard copy.
- (j) This permit was renewed on May 9, 2012.
- (k) This permit was administratively amended on March 1, 2013 to reflect the responsible official change to Mr. Ethan M. Russell, Plant Manager. This delegation was made by Mr. Mark A. Gouveia - Vice President NRG Energy. Mr. Gouveia and Mr. Murray W. Kohan, General Manager are identified as backup Responsible Officials for the New Castle Generating Station.
- (l) This permit was modified on June 26, 2013 to incorporate the requirements of 40 CFR 63 Subpart DDDDD, the amended requirements of 40 CFR 63 Subpart ZZZZ, and to change the name of the owner to NRG Power Midwest LP.



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