



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

TITLE V/STATE OPERATING PERMIT

Issue Date: April 17, 2025

Effective Date: April 17, 2025

Expiration Date: April 16, 2030

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: 23-00017

Federal Tax Id - Plant Code: 23-3064219-1

Owner Information

Name: CONSTELLATION ENERGY GENERATION LLC
Mailing Address: 1 INDUSTRIAL HWY
EDDYSTONE, PA 19022-1524

Plant Information

Plant: CONSTELLATION ENERGY GENERATION LLC/EDDYSTONE
Location: 23 Delaware County 23821 Eddystone Borough
SIC Code: 4911 Trans. & Utilities - Electric Services

Responsible Official

Name: PAUL WEEKS
Title: VP REGIONAL OPERATIONS
Phone: (610) 909 - 6626 Email: paul.weeks@constellation.com

Permit Contact Person

Name: JOSEPH M KUKLINSKI
Title: ENVIRONMENTAL SPECIALIST
Phone: (610) 595 - 8113 Email: joseph.kuklinski@constellation.com

[Signature] _____
JILLIAN A. GALLAGHER, SOUTHEAST REGION AIR PROGRAM MANAGER



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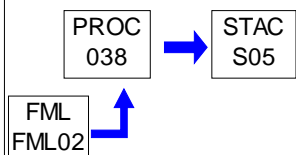
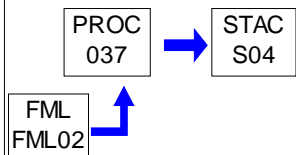
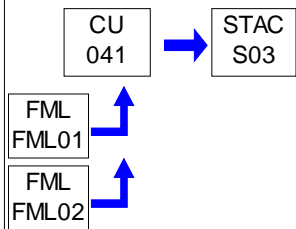
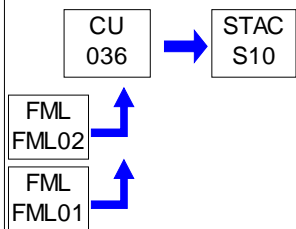
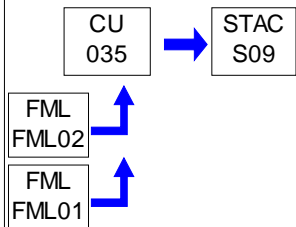
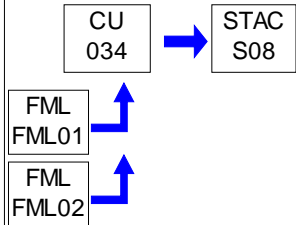
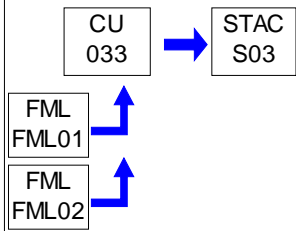
**SECTION A. Site Inventory List**

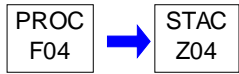
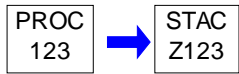
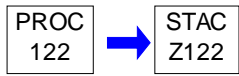
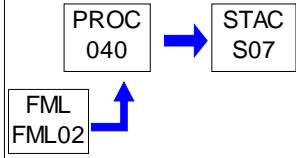
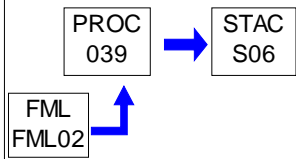
Source ID	Source Name	Capacity/Throughput		Fuel/Material
033	BOILER 3	4,116.000	MMBTU/HR	
		33,352.000	Gal/HR	#2 Oil
		4.480	MMCF/HR	Natural Gas
034	AUXILIARY BOILER A	124.000	MMBTU/HR	
		925.900	Gal/HR	#2 Oil
		122.300	MCF/HR	Natural Gas
035	AUXILIARY BOILER B	124.000	MMBTU/HR	
		925.900	Gal/HR	#2 Oil
		122.300	MCF/HR	Natural Gas
036	AUXILIARY BOILER C	124.000	MMBTU/HR	
		925.900	Gal/HR	#2 Oil
		122.300	MCF/HR	Natural Gas
041	BOILER 4	4,116.000	MMBTU/HR	
		33,352.000	Gal/HR	#2 Oil
		4.480	MMCF/HR	Natural Gas
037	NO. 10 COMBUSTION TURBINE	1,726.000	Gal/HR	Kerosene
		1,726.000	Gal/HR	#2 Oil
038	NO. 20 COMBUSTION TURBINE	1,726.000	Gal/HR	Kerosene
		1,726.000	Gal/HR	#2 Oil
039	NO. 30 COMBUSTION TURBINE	2,104.000	Gal/HR	Kerosene
		2,104.000	Gal/HR	#2 Oil
040	NO. 40 COMBUSTION TURBINE	2,104.000	Gal/HR	Kerosene
		2,104.000	Gal/HR	#2 Oil
122	#2 OIL STORAGE TANK (1.05 MMGAL)			
123	FUEL OIL STORAGE TANKS(2)			
F04	OIL DELIVERY FUGITIVES			
FML01	NATURAL GAS LINE			
FML02	#2 FUEL OIL			
S03	BOILER 3/4 STACK			
S04	TURBINE 10 STACK			
S05	TURBINE 20 STACK			
S06	TURBINE 30 STACK			
S07	TURBINE 40 STACK			
S08	AUX BOILER A STACK			
S09	AUX BOILER B STACK			
S10	AUX BOILER C STACK			
Z04	OIL HANDLING FUGITIVES			
Z122	OIL TANK FUGITIVES			
Z123	FUEL OIL STORAGE TANK(S) FUGITIVES			

PERMIT MAPS



PERMIT MAPS



**PERMIT MAPS**

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

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

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

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. §§ 4001-4015).

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

the Department.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
 - (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
 - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
- (2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
- (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 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, as specified in 25 Pa. Code § 129.14.
- (7) N/A
- (8) N/A
- (9) Sources and classes of sources other than those identified in (1)-(8) of this condition, for which the permittee 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.

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 25 Pa. Code § 123.1(a) (relating to prohibition of certain fugitive emissions) 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 source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

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:

- (a) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.
- (b) Equal to or greater than 60% at any time.

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

The opacity limitations as per 25 Pa. Code § 123.41 shall not apply to a visible emission in any of the following instances:

- (a) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (c) When the emission results from the sources specified in 25 Pa. Code § 123.1(a) (relating to prohibition of certain fugitive emissions).

006 [25 Pa. Code §129.14]**Open burning operations**

No person may permit the open burning of material in the Southeast Air Basin except where the open burning operations result from:

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

**SECTION C. Site Level Requirements**

public officer.

- (b) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (c) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (d) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.
- (e) 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 the structure.
- (f) A fire set solely for recreational or ceremonial purposes.
- (g) A fire set solely for cooking food.

Fuel Restriction(s).**# 007 [25 Pa. Code §123.22]****Combustion units**

The following applies to all fuel oil used in combustion units (boilers):

- (a) A person may not offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil in a combustion unit in the Southeast Pennsylvania air basin if the commercial fuel oil contains sulfur in excess of 15 ppm or 0.0015% by weight for No. 2 fuel oil by weight sulfur content, pursuant to 25 Pa. Code § 123.22(e)(2)(i), except as described in 25 Pa. Code § 123.22(e)(2)(ii) and (iii).
- (b) Commercial No. 2 fuel oil that was stored in the Commonwealth by the ultimate consumer prior to September 1, 2020 which met the applicable maximum allowable sulfur content for commercial fuel oil through August 31, 2020 in subparagraph (a) at the time it was stored, may be used by the ultimate consumer in this Commonwealth on and after September 1, 2020.

[Compliance with this condition assures compliance with the sulfur emission rate of 1.2/1.0 lb SO₂/MMBtu as found in 25 Pa. Code § 123.22(e)(1) for the outer/inner zone, while firing No. 2 fuel oil and the SO_x emissions limit of 0.80 lb/MMBtu found in 40 CFR § 60.43.]

II. TESTING REQUIREMENTS.**# 008 [25 Pa. Code §123.22]****Combustion units**

The actual sulfur content of commercial fuel oil shall be determined:

- (a) in accordance with the sample collection, test methods and procedures specified under 25 Pa. Code § 139.16 (relating to sulfur in fuel oil); or
- (b) by other methods developed or approved by the Department or the Administrator of the EPA, or both.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

- (a) If at any time the Department has cause to believe that air contaminant emissions from any source may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).
- (b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, the most current version of the DEP Source Testing Manual, and the EPA Clean Air Act National Stack Testing Guidance, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

**SECTION C. Site Level Requirements****# 010 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

(a) The following are applicable to tests for the analysis of commercial fuel oil:

(1) The fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample. Upon the request of a Department official, the person responsible for the operation of the source shall collect the sample employing the procedures and equipment specified in 25 Pa. Code § 139.4(10) (relating to references).

(2) Test methods and procedures for the determination of viscosity shall be that specified in 25 Pa. Code § 139.4(11) (relating to references). The viscosity shall be determined at 100°F.

(3) Tests methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15) and (20).

(4) Results shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).

(b) The testing requirements in subpart (a) above shall be waived in the event that a delivery receipt from the supplier, showing the percentage sulfur in the fuel, is obtained each time a fuel oil delivery is made.

III. MONITORING REQUIREMENTS.**# 011 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

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

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

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

(a) The permittee shall monitor the facility, once per operating day, for the following:

- (1) odors which may be objectionable (as per 25 Pa. Code §123.31);
- (2) visible emissions (as per 25 Pa. Code §§123.41 and 123.42); and
- (3) fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).

(b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:

- (1) be investigated;
- (2) be reported to the facility management, or individual(s) designated by the permittee;
- (3) have appropriate corrective action taken (for emissions that originate on-site); and
- (4) be recorded in a permanent written log.

(c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly.

(d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.

(e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited

**SECTION C. Site Level Requirements**

to: the review of the compliance certification (if applicable), complaints, monitoring results, and/or Department findings.

(f) The daily monitoring of visible emissions, specified in (a), above, shall be waived for those stacks monitored by a Department certified Continuous Opacity Monitoring System (COMs).

IV. RECORDKEEPING REQUIREMENTS.**# 013 [25 Pa. Code §123.22]****Combustion units**

The permittee shall receive with each No. 2 fuel oil delivery an electronic or paper record which legibly and conspicuously contains the following information:

- (a) the date of the sale or transfer;
- (b) the name and address of the seller;
- (c) the name and address of the buyer;
- (d) the delivery address;
- (e) the volume of commercial fuel oil purchased; and
- (f) the identification of the sulfur content of the shipment of fuel oil, determined using the sampling and testing methods specified in the testing requirement above, expressed as one of the following statement: "The sulfur content of this shipment is 15 ppm or below."

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

The permittee shall maintain records of all the facility's increases of emissions from the following categories:

- (a) emissions increase of minor significance without notification to the Department.
- (b) de minimis increases with notification to the Department, via letter.
- (c) increases resulting from a Request for Determination (RFD) to the Department.
- (d) increases resulting from the issuance of a plan approval and subsequent operating permit.

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

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

The permittee shall maintain a record of all monitoring of fugitive emissions, visible emissions and odors, including those that deviate from the conditions found in this permit. The record of deviations shall contain, at a minimum, the following items:

- (a) Date, time, and location of the incident(s);
- (b) The cause of the event; and
- (c) The corrective action taken, if necessary, to abate the situation and prevent future occurrences.

For visible emissions monitored by a Department certified Continuous Opacity Monitoring System (COMs) for which the Department's Enforcement Policy-Continuous Emission Monitoring System established penalties for excess emissions the aforementioned recordkeeping requirement will be waived.

V. REPORTING REQUIREMENTS.**# 016 [25 Pa. Code §123.22]****Combustion units**

The permittee shall provide an electronic or written copy of the commercial fuel oil shipment record to the Department upon request, in accordance with 25 Pa. Code § 123.22(g)(4)(ii).

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511(c).]

**SECTION C. Site Level Requirements**

The permittee shall submit the following:

- (a) An annual certificate of compliance, due by April 1st of each year, for the period covering January 1 through December 31 of the previous year. This certificate of compliance shall document compliance with all permit terms and conditions set forth in this Title V permit as required under condition #26 of section B of this permit. The annual certificate of compliance shall be submitted to DEP electronically, and to EPA Region III in electronic form at the following email address: R3_APD_Permits@epa.gov. The subject line shall read: "TVOP No. 23-00017, Constellation Energy Generation LLC/Eddystone."
- (b) A semi-annual deviation report to DEP, due by October 1 of each year, for the period covering January 1 through June 30 of the same year. Note: The annual certification of compliance fulfills the obligation for the second deviation reporting period (July 1 through December 31 of the previous year).

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

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

- (a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department at 484-250-5920. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
- (b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.
- (c) The report shall describe the following:
- (1) Name, permit or authorization number, and location of the facility;
 - (2) Nature and cause of the malfunction, emergency or incident;
 - (3) Date and time when the malfunction, emergency or incident was first observed;
 - (4) Expected duration of excess emissions;
 - (5) Estimated rate of emissions; and
 - (6) Corrective actions or preventative measures taken.
- (d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.
- (e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.
- (f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.
- (g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

**SECTION C. Site Level Requirements****# 019 [25 Pa. Code §135.21]****Emission statements**

The permittee shall submit by March 1, of each year, an annual emission statement showing the actual emissions of NOx and VOC emissions for the preceding calendar year. Additionally, a description of the method used to calculate the emissions shall be included. The statement shall contain a certification by a company official or plant manager that the information contained in the statement is true and accurate.

020 [25 Pa. Code §139.16]**Sulfur in fuel oil.**

Results of the fuel oil sulfur test shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).

VI. WORK PRACTICE REQUIREMENTS.**# 021 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified in 25 Pa. Code § 123.1 shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (a) Use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (b) Application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (c) Paving and maintenance of roadways.
- (d) 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 by other means.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

The permittee shall ensure that the source(s) and air pollution control device(s), listed in this permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturer's specifications.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

The permittee shall immediately, upon discovery, implement measures which may include the application for the installation of an air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in this permit, is causing the emission of air contaminants in excess of the limitations specified in, or established pursuant to 25 Pa. Code Article III or any other applicable rule promulgated under the Clean Air Act.

024 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

The permittee may not modify any air contaminant system identified in this permit, prior to obtaining Department approval, except those modifications authorized by Condition #019(g), of Section B, of this permit.

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION C. Site Level Requirements****VIII. COMPLIANCE CERTIFICATION.**

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

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

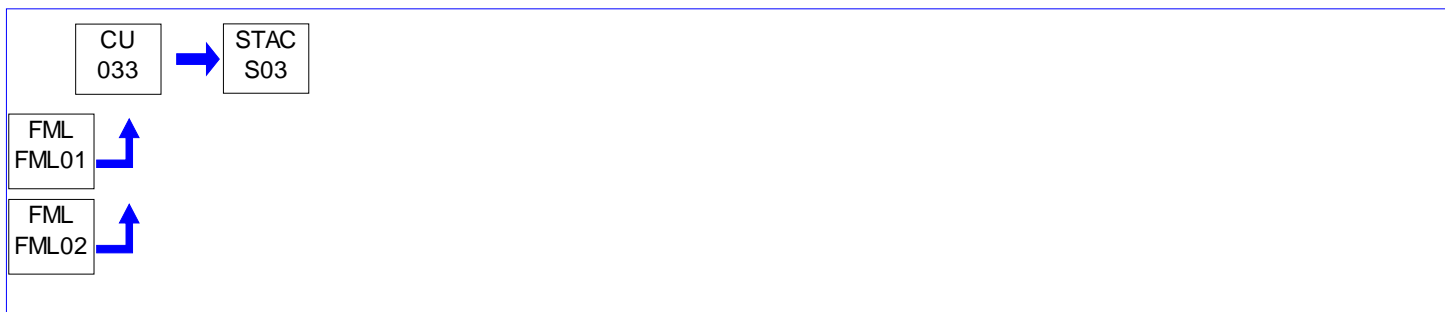
**SECTION D. Source Level Requirements**

Source ID: 033

Source Name: BOILER 3

Source Capacity/Throughput:	4,116.000	MMBTU/HR	
	33,352.000	Gal/HR	#2 Oil
	4.480	MMCF/HR	Natural Gas

Conditions for this source occur in the following groups: MAIN BOILERS

**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.**# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

This source consists of a Combustion Engineering tangential fired boiler. Installed in 1974, the boiler was originally designed to accommodate No.6, crude, and waste oil with a 4116 MMBtu/hr input. The boiler was modified in 1994 to operate on No. 2 oil and natural gas. Originally equipped with ESP for crude oil use, the EPS were not ever used since crude oil was never used in the boiler. Currently, the boiler operates only on No. 2 oil and natural gas.



SECTION D. Source Level Requirements

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

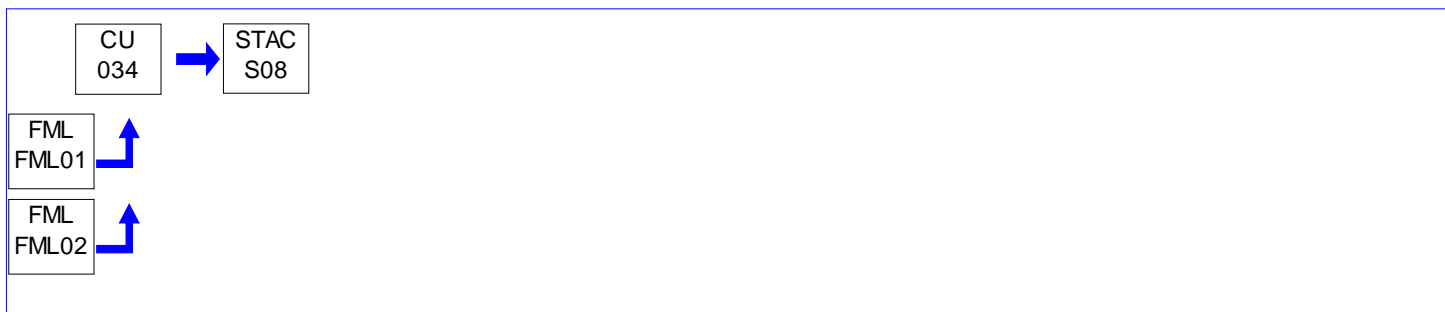
**SECTION D. Source Level Requirements**

Source ID: 034

Source Name: AUXILIARY BOILER A

Source Capacity/Throughput:	124.000	MMBTU/HR	
	925.900	Gal/HR	#2 Oil
	122.300	MCF/HR	Natural Gas

Conditions for this source occur in the following groups: AUX BOILERS

**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.**# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

This source consists of a Combustion Engineering 124 MMBtu/hr package type boiler capable of burning natural gas and No. 2 fuel oil and is used for steam only. Unit was installed in 1973 but the burner was upgraded in 1994 to a low NOx burner.



SECTION D. Source Level Requirements

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

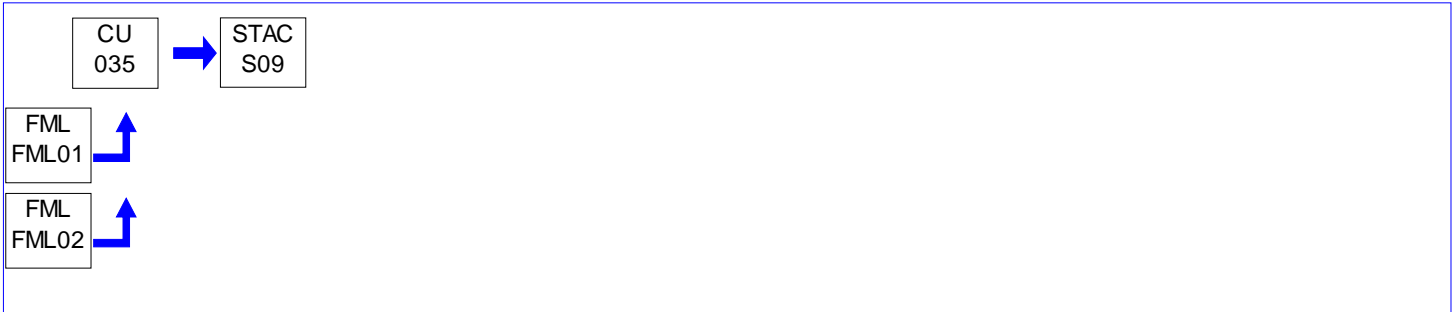
**SECTION D. Source Level Requirements**

Source ID: 035

Source Name: AUXILIARY BOILER B

Source Capacity/Throughput:	124.000	MMBTU/HR	
	925.900	Gal/HR	#2 Oil
	122.300	MCF/HR	Natural Gas

Conditions for this source occur in the following groups: AUX BOILERS

**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.**# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

This source consists of a Combustion Engineering 124 MMBtu/hr package type boiler capable of burning natural gas and No. 2 fuel oil and is used for steam only. Unit was installed in 1973 but the burner was upgraded in 1994 to a low NOx burner.



SECTION D. Source Level Requirements

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

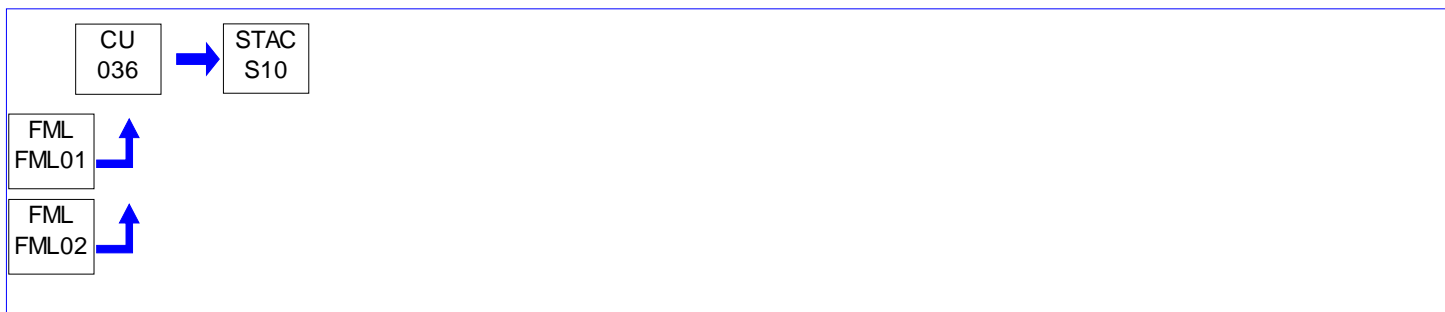
**SECTION D. Source Level Requirements**

Source ID: 036

Source Name: AUXILIARY BOILER C

Source Capacity/Throughput:	124.000	MMBTU/HR	
	925.900	Gal/HR	#2 Oil
	122.300	MCF/HR	Natural Gas

Conditions for this source occur in the following groups: AUX BOILERS

**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.**# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

This source consists of a Combustion Engineering 124 MMBtu/hr package type boiler capable of burning natural gas and No. 2 fuel oil and is used for steam only. Unit was installed in 1973 but the burner was upgraded in 1994 to a low NOx burner.



SECTION D. Source Level Requirements

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

**SECTION D. Source Level Requirements**

Source ID: 041

Source Name: BOILER 4

Source Capacity/Throughput:	4,116.000	MMBTU/HR	
	33,352.000	Gal/HR	#2 Oil
	4.480	MMCF/HR	Natural Gas

Conditions for this source occur in the following groups: MAIN BOILERS

**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.**# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

This source consists of a Combustion Engineering tangential fired boiler. Installed in 1974, the boiler was originally designed to accommodate No.6, crude, and waste oil with a 4116 MMBtu/hr input. The boiler was modified in 1994 to operate on No. 2 oil and natural gas. Originally equipped with ESP for crude oil use, the EPS were not ever used since crude oil was never used in the boiler. Currently, the boiler operates only on No. 2 oil and natural gas.



SECTION D. Source Level Requirements

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

**SECTION D. Source Level Requirements**

Source ID: 037

Source Name: NO. 10 COMBUSTION TURBINE

Source Capacity/Throughput:	1,726.000 Gal/HR	Kerosene
	1,726.000 Gal/HR	#2 Oil

Conditions for this source occur in the following groups: TURBINES

**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.**# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The source consists of a 233 MMBtu/hr Pratt and Whitney FT4-8 diesel /kerosene fueled turbine installed in 1967 that powers a 18 MW generator.

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

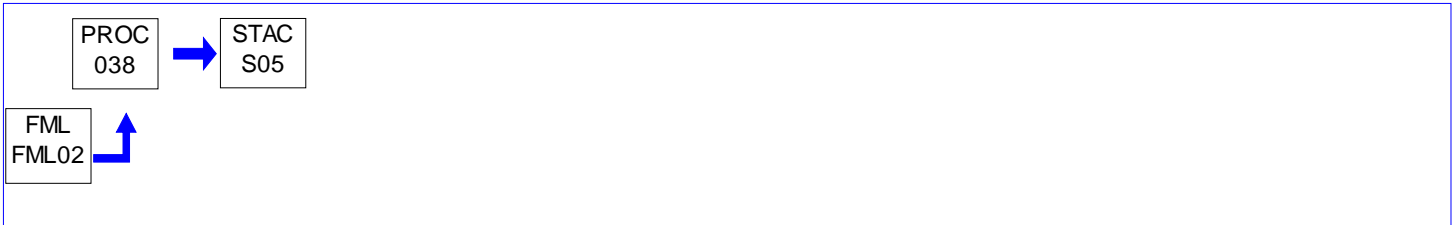
**SECTION D. Source Level Requirements**

Source ID: 038

Source Name: NO. 20 COMBUSTION TURBINE

Source Capacity/Throughput:	1,726.000 Gal/HR	Kerosene
	1,726.000 Gal/HR	#2 Oil

Conditions for this source occur in the following groups: TURBINES

**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.**# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The source consists of a 233 MMBtu/hr Pratt and Whitney FT4-8 diesel /kerosene fueled turbine installed in 1967 that powers a 18 MW generator.

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

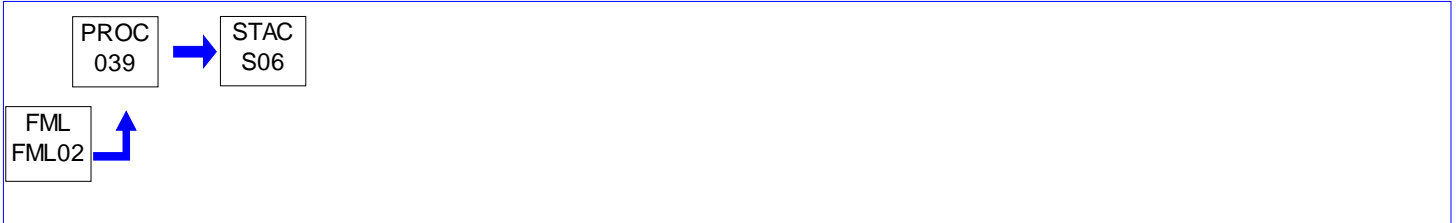
**SECTION D. Source Level Requirements**

Source ID: 039

Source Name: NO. 30 COMBUSTION TURBINE

Source Capacity/Throughput:	2,104.000 Gal/HR	Kerosene
	2,104.000 Gal/HR	#2 Oil

Conditions for this source occur in the following groups: TURBINES

**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.**# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The source consists of a 284 MMBtu/hr Pratt and Whitney FT4-9 diesel /kerosene fueled turbine installed in 1970 that powers a 20 MW generator.

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

**SECTION D. Source Level Requirements**

Source ID: 040

Source Name: NO. 40 COMBUSTION TURBINE

Source Capacity/Throughput:	2,104.000 Gal/HR	Kerosene
	2,104.000 Gal/HR	#2 Oil

Conditions for this source occur in the following groups: TURBINES

**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.**# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The source consists of a 284 MMBtu/hr Pratt and Whitney FT4-9 diesel /kerosene fueled turbine installed in 1970 that powers a 20 MW generator.

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

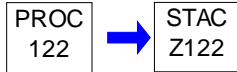
**SECTION D. Source Level Requirements**

Source ID: 122

Source Name: #2 OIL STORAGE TANK (1.05 MMGAL)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: OIL STORAGE

**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. *****

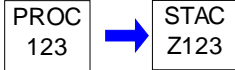
**SECTION D. Source Level Requirements**

Source ID: 123

Source Name: FUEL OIL STORAGE TANKS(2)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: OIL STORAGE

**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.

001 [25 Pa. Code §127.503]

Application information.

This source consists of two (2) 8.4 million gallon fixed roof storage tanks used to store fuel oil.

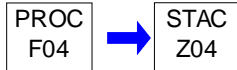
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: F04

Source Name: OIL DELIVERY FUGITIVES

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 §127.512]****Operating permit terms and conditions.**

Good operating practices shall be followed to minimize fugitive emissions.

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: AUX BOILERS

Group Description: Auxiliary Boilers 124 MMBtu

Sources included in this group

ID	Name
034	AUXILIARY BOILER A
035	AUXILIARY BOILER B
036	AUXILIARY BOILER C

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 this boiler in excess of 0.24 lbs/MMBtu of heat input, pursuant to 25 Pa. Code § 123.11(a)(2).

002 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 129.112(g)(1)(i)-(ii).]

NOx emissions from each boiler in this group shall not exceed any of the following as a daily average:

- (1) 0.10 lb NOx/MMBtu heat input when firing natural gas.
- (2) 0.12 lb NOx/MMBtu heat input when firing No. 2 fuel oil

[Compliance with the above RACT III NOx emission standards assure compliance with the RACT I NOx emission standards according to 25 Pa. Code §129.91- NOx emissions from this boiler shall not exceed 0.14 lbs/MMBtu. and 129.97(i) and the RACT II NOx emission standards according to 25 Pa. Code §§ 129.97(g)(1)(i) - (ii).]

(b) The permittee shall conduct monitoring and testing in accordance with a Department-approved emissions source test that meets the requirements of Chapter 139, Subchapter A (relating to sampling and testing methods and procedures). The source test shall be conducted one time in each 5-year calendar period.

003 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 129.91 and 129.112.]

NOx emissions from each boiler in this group shall not exceed 36.0 tons in any 12 consecutive month period.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7500]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****What emission limits, work practice standards, and operating limits must I meet?**

[Additional authority for this permit conditions is also derived from Table 2 of this subpart, 40 CFR § 63.7510(e), and 25 Pa. Code § 127.441.]

When burning fuel oil, emissions to the atmosphere shall not exceed the following, except for start-up and shut-down:

- (a) HCl - 1.1E-03 lbs/MMBtu of heat input or 1.4E-03 lb per MMBtu of steam output;
- (b) Hg - 7.3E-07 lb per MMBtu of heat input or 8.8E-07 lb per MMBtu of steam output;
- (c) CO - 130 ppm by volume on a dry basis corrected to 3 percent oxygen or 0.13 lb per MMBtu of steam output; and
- (d) PM emissions:
 - (1) filterable PM - 7.9E-03 lb per MMBtu of heat input or 9.6E-03 lb per MMBtu of steam output; or
 - (2) the permittee may choose to limit the emissions Total Select Metals (TSM) to 6.2E-05 lb per MMBtu of heat input or

**SECTION E. Source Group Restrictions.**

7.5E-05 lb per MMBtu of steam output.

Fuel Restriction(s).

005 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Only No. 2 fuel oil and/or natural gas shall be burned in these auxiliary boilers.

Throughput Restriction(s).

006 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The heat throughput for each auxiliary boiler shall not exceed 657,000 MMBtu, or an annual capacity factor of 60%, in any 12 consecutive month period. Heat input shall be determined by a Department approved method.

II. TESTING REQUIREMENTS.

007 [25 Pa. Code §127.512]

Operating permit terms and conditions.

(a) The permittee shall perform stack tests on boilers in this group according to the following:

(i) For compliance with NO_x limits under 25 Pa Code § 129.115(b)(6):

(1) One boiler shall be tested every five (5) years, where five (5) calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five (5) years later.

(2) No one boiler shall be tested repeatedly for each consecutive five (5) year period. The permittee must alternate between boilers for stack tests.

(3) Each boiler must be tested at least once in the 15-year period (three 5-year periods).

(4) If the permittee fails to comply with requirements of the above schedule; modifies the boilers or changes their operation in a manner that would increase emissions; or does not comply with the maintenance requirements in Condition #021 of this Group and Section, all boilers will need to be tested in the same 5- year period. The permittee may request a return to the alternating schedule above once any deficiencies listed in this paragraph have been addressed, all boilers have been tested during one five(5) year interval and the tests have been found acceptable.

(ii) For compliance with Hg, HCl, CO and filterable PM or total suspended metals (TSM) testing shall be performed as follows:

(1) Perform annual stack test for each contaminant. Tests must be completed no more than 13 months after the previous test unless the boiler is eligible for the reduced testing listed in Paragraph (a)(ii)(2) of this Condition. In lieu of testing for Hg, HCl and TSM only, the permittee may use fuel analysis for liquid fuel only to comply with limits as allowed under 40 CFR § 63.7505(a). For gaseous fuels, fuel testing for Hg is permitted in lieu of stack testing. Fuel testing must be performed according to requirements of 40 CFR §§ 63.7515, 63.7521, 63.7530, and Table 6 of 40 CFR Part 63 Subpart DDDDD.

(2) If your performance tests for a given pollutant for at least 2 consecutive years show that your emissions are at or below 75 percent of the emission limit for the pollutant, and if there are no changes in the operation of the individual boiler that could increase emissions, the permittee may choose to conduct performance tests for the pollutant every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.

(3) If a performance test shows emissions exceeded the emission limit or 75 percent of the emission limit for a pollutant, the permittee must conduct annual performance tests for that pollutant until all performance tests over a

**SECTION E. Source Group Restrictions.**

consecutive 2-year period meet the required level (at or below 75 percent of the emission limit).

(4) Under 40 CFR § 63.7515(h), if the boilers are designed to burn light distillate oil (diesel, No. fuel oil, biodiesel), the fuel used by the boilers is ultra-low sulfur (15 ppm sulfur or lower), and the pollutants measured during the initial compliance performance tests meet the emission limits in Table 2 of 40 CFR Part 63 Subpart DDDDD, the facility does not need to conduct further performance tests (stack tests). The facility must demonstrate ongoing compliance with the emissions limits by monitoring and recording the type of fuel and amount combusted on a monthly basis. The facility shall keep a copy of the initial compliance test results at the facility for review and verification. If the facility intends to use a fuel other than ultra-low sulfur liquid fuel, natural gas, refinery gas, or other gas 1 fuel, the facility must conduct new performance tests within 60 days of burning the new fuel type.

(5) If fuel testing is being used in lieu of stack testing and the boilers share a common fuel supply, sampling from the common supply is acceptable for compliance for all boilers sharing the supply.

(b) In accordance with 25 Pa. Code § 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient. However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack testing manual has been revised since approval, a new protocol must be submitted for approval. Refer to PADEP Source Testing Program website online for further information related to source testing including Source Testing FAQ and the PADEP Source Testing Manual.

(c) The stack test shall, at a minimum, test for the following according to listed regulations:

- (i) NO_x – testing shall be conducted according to the requirements in 25 Pa Code § 129.115(b)(6)
- (ii) Hg, HCl, CO and filterable PM or TSM – testing shall be performed according to requirements of 40 CFR § 63.7505 and 40 CFR Part 63 Subpart DDDDD Table 5.

(d) Tests shall also be conducted in accordance with the provisions of the current version of the DEP Source Testing Manual, the methods found in the 40 CFR Part 60 Appendices and the EPA Clean Air Act National Stack Testing Guidance.

(e) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(f) At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(g) Within sixty (60) days after the source test(s), an electronic copy of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(h) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

008 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

(a) The permittee shall email all source test submissions (notifications, protocols, reports, supplemental information, etc.) to both the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office (email addresses are provided below). Any questions or concerns about source testing submissions can be sent to RA-EPstacktesting@pa.gov and the PSIMS Administrator will address them.

Southeast Region
RA-EPSEstacktesting@pa.gov

**SECTION E. Source Group Restrictions.**

Central Office
RA-EPstacktesting@pa.gov

(b) The following pertinent information shall be listed on the title page.

1. Test Date(s)

- a. For protocols, provide the proposed date on which testing will commence or "TBD"
- b. For reports, provide the first and last day of testing

2. Facility Identification Number (Facility - ID): For test programs that were conducted under a multi-site protocol, also include the PF ID under which the protocol was stored in PSIMS, as indicated in the protocol response letter.

3. Source ID(s) for the applicable source(s) and air pollution control device(s): The term Source ID is used in the permit but "Other Id" is used in DEP electronic systems. They are the same number and must also be listed for control equipment

4. Testing Requirements:

- (i). Operating permit number 23-00017
- (ii) 40 CFR Part 63 Subpart DDDDD (when testing for Hg, HCl, CO or filterable PM/TSM)
- (iii) RACT III Compliance under 25 Pa Code § 129.112(g)(1)(i)-(ii)

(c) If confidential information must be submitted, submit both a public copy, which has been redacted, and a confidential copy. The cover page of each submittal should state whether it is a "Public Copy" or "Confidential Copy" and each page of the latter must be marked "CONFIDENTIAL".

009 [25 Pa. Code §127.512]

Operating permit terms and conditions.

For fuel testing used in lieu of stack testing, the facility may use fuel analysis provided by the supplier if the following are met:

- (a) The testing is done in accordance with the requirements for each pollutant in Table 6 of 40 CFR Part 63 Subpart DDDDD, 40 CFR §§ 63.7510 and 63.7521.
- (b) The permittee shall maintain records of the result of testing performed provided by the supplier. The records shall list the supplier, fuel tested, the date of testing, test method used for each pollutant, and results in units prescribed for limits from Subcategories 14 and 16 of Table 2 of 40 CFR Part 63 Subpart DDDDD.
- (c) Fuel analysis must be performed monthly for each type of fuel burned. The permittee may comply with this monthly requirement by having the supplier comply with the sampling interval found in 40 CFR § 63.7515(e). If each of 12 consecutive monthly fuel analyses demonstrates 75 percent or less of the compliance level, the permittee may decrease the fuel analysis frequency for the supplier to quarterly for that fuel. If any quarterly sample exceeds 75 percent of the compliance level or the boiler begins burning a new type of fuel, the permittee must return to monthly monitoring for that fuel, until 12 months of fuel analyses are again less than 75 percent of the compliance level.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7515]

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.441.]

For units that burn light liquid fuel as described in 40 CFR 63, Subpart DDDDD, the permittee shall demonstrate compliance status for the following:

- (1) Hg and HCl emissions: by conducting a performance test or fuel analysis
- (2) PM (TSM) emissions: by conducting a performance test
- (3) CO emissions: by conducting a performance test

**SECTION E. Source Group Restrictions.**

If your performance tests for a given pollutant for at least 2 consecutive years show that your emissions are at or below 75 percent of the emission limit for the pollutant, and if there are no changes in the operation of the individual boiler that could increase emissions, the permittee may choose to conduct performance tests for the pollutant every third year. Each such performance test must be conducted no more than 37 months after the previous performance test.

If a performance test shows emissions exceeded the emission limit or 75 percent of the emission limit for a pollutant, the permittee must conduct annual performance tests for that pollutant until all performance tests over a consecutive 2-year period meet the required level (at or below 75 percent of the emission limit).

Results of the performance test shall be submitted to the Department within sixty (60) days after completion of the test.

III. MONITORING REQUIREMENTS.**# 011 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The following shall be monitored on a daily basis for each boiler when operating:

- (a) fuel consumed, by type and amount;
- (b) steam output; and
- (c) hours of operation.

IV. RECORDKEEPING REQUIREMENTS.**# 012 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

Records, and sufficient calculations, shall be maintained to document compliance with each limit for these sources. The data shall be recorded and maintained in a time frame consistent with the averaging period.

013 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

The following fuel oil characteristics shall be verified and recorded on a monthly, and an as-delivered, basis:

- (a) sulfur content percent, by weight; and
- (b) heat content, in MMBtu/gal.

014 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

The following daily records for these boilers shall be kept:

- (a) fuel consumed, by type and amount;
- (b) steam output; and
- (c) hours of operation.

Calculations shall be performed monthly, to demonstrate compliance with the 12 consecutive month heat throughput limit, or capacity factor for these auxiliary boilers.

015 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Additional authority from 40 CFR § 63.7540(a)(10)(vi).]

(a) The permittee shall keep maintenance reports for maintenance required under Condition #022 of this Group and Section containing the following information on site and available:

- (1) 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;
- (2) A description of any corrective actions taken as a part of the tune-up; and

**SECTION E. Source Group Restrictions.**

(3) The type and amount of fuel used over the 12 months prior to the tune-up. Units sharing a fuel meter may estimate the fuel used by each unit.

(b) Records shall be maintained for at least 5 years.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7555]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****What records must I keep?**

[Additional authority for this permit condition is also derived from 25 Pa. Code 127.441.]

The permittee shall retain the following records:

- (a) a copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report submitted, according to the requirements in 40 CFR § 63.10(b)(2)(xiv); and
- (b) records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in 40 CFR § 63.10(b)(2)(viii).

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7555]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****What records must I keep?**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

For each boiler, you must also keep the following records:

- (a) monthly records of fuel use and type for each boiler;
- (b) for units in the limited use subcategory, you must keep a copy of the federally enforceable permit that limits the annual capacity factor to less than or equal to 10 percent and fuel use records for the days the boiler was operating;
- (c) a copy of all calculations and supporting documentation of maximum chlorine fuel input, using Equation 7 of 40 CFR § 63.7530, that were done to demonstrate continuous compliance with the HCl emission limit, for sources that demonstrate compliance through performance testing;
- (d) a copy of all calculations and supporting documentation of maximum mercury fuel input, using Equation 8 of 40 CFR § 63.7530, that were done to demonstrate continuous compliance with the mercury emission limit for sources that demonstrate compliance through performance testing;
- (e) if, consistent with 40 CFR § 63.7515(b), you choose to stack test less frequently than annually, you must keep a record that documents that your emissions in the previous stack test(s) were less than seventy-five (75) percent of the applicable emission limit, and document that there was no change in source operations including fuel composition that would cause emissions of the relevant pollutant to increase within the past year;
- (f) records of the occurrence and duration of each malfunction of the boiler;
- (g) records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR § 63.7500(a)(3), including corrective actions to restore the malfunctioning boiler to its normal or usual manner of operation;
- (h) records of the calendar date, time, occurrence and duration of each startup and shutdown; and
- (i) records of the type(s) and amount(s) of fuels used during each startup and shutdown.

V. REPORTING REQUIREMENTS.**# 018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7550]****Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****What reports must I submit and when?**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The permittee shall submit compliance reports according to the following schedule:

Initial report covering the period between January 31, 2016 and June 30, 2016.

Subsequent reports shall cover the periods from July 1 through December 30 and from January 1 through June 30.

**SECTION E. Source Group Restrictions.**

All reports shall be post marked (or electronically delivered) to the Department and the EPA no later than July 31 (for the period ending June 30) and January 31 (for the period ending December 31).

The compliance report shall contain the following information:

- (a) If the facility is subject to a the requirements of a tune up they must submit a compliance report with the following information:
- (1) company and Facility name and address;
 - (2) process unit information, emissions limitations, and operating parameter limitations;
 - (3) date of report and beginning and ending dates of the reporting period;
 - (4) the total operating time during the reporting period; and
 - (5) 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 40 CFR § 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.
- (b) If a facility is complying with the applicable emissions limit with performance testing they must submit a compliance report with the following information:
- (1) company and Facility name and address;
 - (2) process unit information, emissions limitations, and operating parameter limitations;
 - (3) date of report and beginning and ending dates of the reporting period;
 - (4) the total operating time during the reporting period;
 - (5) the total fuel use by each individual boiler or process heater subject to an emission limit within the reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by the EPA or your basis for concluding that the fuel is not a waste, and the total fuel usage amount with units of measure;
 - (6) if you are conducting performance tests once every three (3) years consistent with 40 CFR § 63.7515(b) or (c), the date of the last two (2) performance tests and a statement as to whether there have been any operational changes since the last performance test that could increase emissions;
 - (7) if there are no deviations from any emission limits or operating limits, a statement that there were no deviations from the emission limits or operating limits during the reporting period;
 - (8) if a malfunction occurred during the reporting period, the report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken during a malfunction of the boiler to minimize emissions in accordance with 40 CFR § 63.7500(a)(3), including actions taken to correct the malfunction;
 - (9) if you plan to demonstrate compliance by emission averaging, certify the emission level achieved or the control technology employed is no less stringent than the level or control technology contained in the notification of compliance status in 40 CFR § 63.7545(e)(5)(i); and
 - (10) for each deviation from an emission limit or operating limit in this subpart that occurs at an individual boiler or process heater where you are not using a CMS to comply with that emission limit or operating limit, the compliance report must additionally contain the information required in (i) through (iii), below.
 - (i) a description of the deviation and which emission limit or operating limit from which you deviated;
 - (ii) information on the number, duration, and cause of deviations (including unknown cause), as applicable, and the corrective action taken; and
 - (iii) if the deviation occurred during an annual performance test, provide the date the annual performance test was completed.

VI. WORK PRACTICE REQUIREMENTS.**# 019 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

Fuel oil analysis, or fuel samples shall be provided to the Department, upon request.

020 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 129.91, 129.97 and 129.112.]

NOx emissions from these boilers shall be controlled with Low-NOx burners.

**SECTION E. Source Group Restrictions.****# 021 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

These boilers shall be maintained in accordance with requirements of 40 CFR § 63.7540(a)(10). Each boiler shall have an annual tune-up including the following items:

- (a) Inspect the burner, and clean or replace any components of the burner as necessary (you may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown but not to exceed 36 months from 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;
- (b) 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;
- (c) 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 but not to exceed 36 months from previous inspection);
- (d) 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 but not to exceed 36 months from previous inspection);
- (e) 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; and
- (f) 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.

022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7525]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****What are my monitoring, installation, operation, and maintenance requirements?**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The permittee shall install, operate, calibrate, and maintain the oxygen analyzer systems in accordance with the manufacturer's specifications.

023 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7530]**Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.****How do I demonstrate initial compliance with the emission limitations, fuel specifications and work practice standards?**

[Additional authority for this permit condition is derived from 40 CFR 63, Subpart DDDDD, Table 4, and 25 Pa. Code § 127.441.]

The permittee shall maintain the operating load of each unit such that it does not exceed 110 percent of the highest hourly average operating load recorded during the most recent performance test.

The permittee shall maintain the 30-day rolling average oxygen content at or above the lowest hourly average oxygen concentration measured during the most recent CO performance test.

VII. ADDITIONAL REQUIREMENTS.**# 024 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7500]****Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial**

**SECTION E. Source Group Restrictions.****and Institutional Boilers and Process Heaters.****What emission limits, work practice standards, and operating limits must I meet?**

The one time energy assessment for these boilers was completed on September 18, 2015 to satisfy the requirements of 40 CFR § 63.7510(e).

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

**SECTION E. Source Group Restrictions.**

Group Name: MAIN BOILERS

Group Description: Large EGU Boilers 4116 MMBtu

Sources included in this group

ID	Name
033	BOILER 3
041	BOILER 4

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 the stack associated with this boiler in excess of 0.1 lbs/MMBtu of heat input, pursuant to 25 Pa. Code § 123.11(a)(3).

002 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 129.112(g)(1)(i)-(ii).]

NOx emissions from each boiler in this group shall not exceed any of the following as a daily average:

- (1) 0.10 lb NOx/MMBtu heat input when firing natural gas.
- (2) 0.12 lb NOx/MMBtu heat input when firing No. 2 fuel oil

When co-firing fuels, the emissions shall be prorated, as described in 40 CFR § 60.44(b), from the above emission limits and the percent heat input for each fuel fired in lb/MMBtu.

[Compliance with the above RACT III NOx emission standards assure compliance with the RACT I NOx emission standards (Condition #002(a) under this source), according to 25 Pa. Code §§ 129.97(a)(1) and 129.97(i); the RACT II NOx emission standards according to 25 Pa. Code §§ 129.97(g)(1)(i) - (ii); and the NOx emissions standards of 40 CFR § 60.44(a)(1)-(2). Additionally, these RACT III limits supersede the limits and requirements under 25 Pa Code §§ 129.201-205.]

003 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

NOx emissions from the combined stack, which includes Boilers 3 and 4, shall not exceed any of the following, whichever is more stringent:

(a) 0.29 lbs/MMBtu of heat input as a 30-operating day average;

(1) an operating day is a 24-hour period between midnight and the following midnight during which any fuel is combusted in the steam-generating unit for at least one operating hour;

(2) an operating hour is a clock hour in which any fuel is combusted in the steam-generating unit for at least 45 minutes; and

(3) compliance shall be determined each operating day by calculating the arithmetic average of all hourly emission rates for 30 consecutive operating days, inclusive of the current operating day.

(b) 5568 tons in any 12 consecutive month period.

[Compliance with Section E, Condition #002 which contains RACT III requirements under 25 Pa Code § 129.112 for this source group ensures compliance with this condition.]

**SECTION E. Source Group Restrictions.****# 004 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 129.91 and 129.114]

The aggregated VOC emissions from the boilers in this group shall not exceed 0.002 lbs/MMBtu, and 35.9 tons in any 12 consecutive month period, whichever is more stringent.

Fuel Restriction(s).**# 005 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

Only #2 fuel oil and/or natural gas shall be burned in these boilers.

Throughput Restriction(s).**# 006 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The annual heat input for each boiler in the group shall not exceed 17,186,207 MMBtu of heat input as a 12-month rolling aggregate calculated monthly.

007 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Additional authority from 40 CFR § 63 Subpart UUUUU]

These boilers meet the definition of limited-use liquid oil-fired units from 40 CFR § 63.10042 by remaining below an annual capacity factor of less than 8% of the nameplate heat input capacity (36,056,160 MMBtu/yr total capacity) when burning when burning No. 2 oil. If the annual heat input to a boiler from No.2 fuel oil exceed 2,884,493 MMBtu annually, that boiler will be subject to the full requirements of 40 CFR Part 63 Subpart UUUUU for continental liquid oil-fired units.

II. TESTING REQUIREMENTS.**# 008 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

A Relative Accuracy Test Audit (RATA) shall be conducted on each CEMs to demonstrate compliance with the performance specifications of the Department's "Continuous Source Monitoring Manual".

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

Fuel throughput and type, and hours of operation, shall be monitored on a daily basis for each boiler.

010 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Fuel oil sulfur percent content (by weight) and heat content (MMBtu/gal) shall be verified and recorded, in the time-frames prescribed by this permit, for this source.

IV. RECORDKEEPING REQUIREMENTS.**# 011 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

Records, and sufficient calculations, shall be maintained to document compliance with each emission limit for these sources. The data shall be recorded and maintained in a time frame consistent with the averaging period.

012 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Fuel throughput and type, and hours of operation, shall be recorded on a daily basis for each boiler.

**SECTION E. Source Group Restrictions.****# 013 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The NOx emission tracking system shall record, at a minimum, the following information:

- (a) heat input (MMBtu/hr) on an hourly basis for each boiler;
- (b) hours of operation for each boiler; and
- (c) flue flow and flue gas contaminants concentration.

014 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Records of tune-ups perform on each boiler for compliance with 40 CFR Part 63 Subpart UUUUU must be keep onsite documenting the work performed during tune-ups, the pre- and post- CO and NOX concentrations in the exhaust stream, any correction actions taken due to tune-ups, and the types and amounts of fuel use in the 12 months preceding each tune-up.

015 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 129.100 and 129.115(b)(4).]

The owner or operator shall demonstrate compliance with the emission limitations under Conditions #001 and 002, for these sources, by operating a CEMS for NOx, in accordance with the following procedures:

(1) Compliance shall be demonstrated using a daily average for RACT III in Condition #001:

(i) The daily average shall be calculated by summing the total pounds of pollutant emitted for the calendar day and dividing that value by the total heat input to the source for the same calendar day for each boiler.

(ii) The daily average for the source shall include all emissions that occur during the entire day, including startup, shutdown and malfunction.

[Compliance with the RACT III requirements ensure compliance with RACT II under 25 Pa Code § 129.100]

016 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 129.97,129.100, 129.112 and 129.115]

(a) The permittee shall record data and perform sufficient calculations to demonstrate compliance with each of the emission limits for these sources.

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

V. REPORTING REQUIREMENTS.**# 017 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR 63, Subpart UUUUU.]

Recordkeeping and reporting requirements shall follow those set forth in the general requirements found in 40 CFR §§ 63.9 and 10 as well as those found in 40 CFR § 63.10031.

018 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Additional authority from 40 CFR § 63.10031.]

**SECTION E. Source Group Restrictions.**

Tune-ups must be reported in the quarterly compliance report of the quarter in which it took place. Tune-up date is the date on which the requirements of the tune-up under 63.10021(e) have been completed.

VI. WORK PRACTICE REQUIREMENTS.**# 019 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The permittee shall use the methods provided in 40 CFR 75.31-33 for NOx emissions and 40 CFR 75 Appendix D for fuel flow to supplement any data not captured by the continuous monitors required for these source. The CEMS, along with any missing data determined under this condition, shall be used to determine compliance with the NOx emission limits for this source.

020 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Continuous Monitors shall be operated and maintained in accordance with the latest applicable version of the Department's "Continuous Source Monitoring Manual", for CO₂, NO_x, Opacity and fuel flow.

021 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

The continuous monitoring system for CO₂, opacity, and NO_x shall be operated and maintained to achieve the following data availability requirements:

- (1) At least 95% valid hours/calendar quarter, or at least 90% valid hours/calendar month, where a valid hour is as defined in the current revision of the Continuous Source Monitoring Manual.
- (2) The permittee shall use the method provided in 40 CFR Section 75.31-33 for NOx emissions and 40 CFR 75 Appendix D for fuel flow to supplement any data not captured by the CEMS required for these sources. The CEMS, along with any missing data determined under this condition will be used to determine compliance with the NOx emission limits for these sources.

022 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

The NOx analyzer, and Department approved Data Acquisition System, shall quantify emissions in lbs NOx/MMBtu heat input to demonstrate compliance with the NOx emission limit for these sources.

023 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

NOx emissions from these boilers shall be controlled by a separate over-fire air (SOFA) system to reduce NOx emissions.

024 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

The NOx and fuel flow continuous monitors shall be certified by the Department. The resulting total output of the common stack shall be reported in pounds of NOx per hour. The methods to quantify NOx emissions from the common stack and each individual unit shall be approved by the Department, with the resulting output in lbs/MMBtu.

025 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR 63, Subpart UUUUU, Table 3.]

The permittee shall conduct a tune-up on each boiler's EGU burners and combustion controls no more than thirty-six (36) calendar months after the previous tune-up. Tune-up shall include the following as applicable:

- (1) Inspection needs to include inspection of the flame pattern and adjustment according to manufacturer specs or best combustion engineering practices.
- (2) Inspect the windbox pressures and air proportions and adjust as needed. Repair any dampers, actuators, controls and sensors as needed.

**SECTION E. Source Group Restrictions.**

(3) Optimize combustion to minimize generation of NOx and CO according to manufacturer's spec or best combustion engineering practices.

(4) Measure the concentration of NOx and CO under full load or predominant operating load before and after the tune-up. If using a neural network optimization system only one pre- and post-tune up measurement is required rather than continuous monitoring.

(5) For repairs: If special parts are needed that impact control of NOx and CO, they must be installed within 3 calendar months after the inspection. Parts not impacting NOx and CO may be installed according to operator's schedule.

026 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Additional authority for this condition from 40 CFR § 72.9(b)]

(a) The permittee shall operate and maintain a CEM system for SO2 in compliance with 40 CFR Part 75 standards.

(b) The permittee may calculate SO2 emissions in accordance with Appendix D to 40 CFR Part 75 when natural gas or No. 2 fuel oil is used as fuel.

027 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 129.97, 129.100 and 129.115]

(a) The permittee shall record data and perform sufficient calculations to demonstrate compliance with each of the emission limits for these sources.

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

VII. ADDITIONAL REQUIREMENTS.**# 028 [25 Pa. Code §127.11a]****Reactivation of sources.**

(a) If any of these sources are out of operation for one (1) year or more and less than five (5) years without submission to the Department of a maintenance plan as described in 25 PA Code § 127.11a(a)(1), a plan approval will be required to reactivate the source. Sources out of operation for one (1) year or more and less than five (5) years with an implemented maintenance plan will require a reactivation plan submitted to the Department at least 60 days prior to reactivation date.

(b) If any of these sources are out of operation for at least five (5) years but less than 10 years without the submissions to the Department of a maintenance plan as described in 25 PA Code § 127.11a(a)(1), the source will be considered a new source and subject the requirements applicable to new sources. Sources out of operation for at least five (5) years but less than 10 years with an implemented maintenance plan will not be considered new sources. A plan approval is required to reactivate a source that is out of operation for more than 5 years.

029 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Compliance with the initial tune-up, as required under 40 CFR § 63.10005(f) and due no later October 13, 2015, was demonstrated 6/23/2015 for Boiler 3 (Source ID 033) and 6/24/2015 for Boiler 4 (Source ID 041).

030 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[40 C.F.R. § 52.2040 and 40 C.F.R. §52.2041 (relating to interstate pollutant transport provisions)]

(a) The owner and operator of each NOx or SO2 source located within the State of Pennsylvania and for which requirements are set forth under the Federal CSAPR in 40 C.F.R. Part 97 must comply with such applicable requirements. The obligation to comply with these requirements in Part 97 will be eliminated by the promulgation of an approval by the EPA's Administrator of a revision to the Pennsylvania State Implementation Plan (SIP) as meeting the requirements of CSAPR,

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except to the extent the EPA Administrator's approval is partial or conditional or unless such approval is under 40 C.F.R. § 51.123 or under 40 C.F.R. § 51.124. Upon the approval of Pennsylvania's State Implementation Plan, the owner and operator shall comply with 25 Pa. Code §§ 145.8 through 145.223.

(b) Notwithstanding any provisions 40 C.F.R. § 52.2040, if, at the time of such approval of the State's SIP, the EPA's Administrator has already allocated CSAPR NOx Ozone Season allowances to sources in the State for any years, the provisions of 40 C.F.R. Part 97 authorizing the Administrator to complete the allocation of CSAPR NOx Ozone Season allowances for those years shall continue to apply, unless the Administrator approves a SIP provision that provides for the allocation of the remaining CSAPR NOx Ozone Season allowances for those years.

031 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

[Transport Rule (TR) SO₂ Group 1 Trading Program requirements (40 CFR § 97.606)]

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§ 97.613 through 97.618.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§ 97.630 through 97.635.

(2) The emissions data determined in accordance with §§ 97.630 through 97.635 shall be used to calculate allocations of TR SO₂ Group 1 allowances under §§ 97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO₂ Group 1 emissions limitation and assurance provisions under paragraph (c) of this section, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§ 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO₂ emissions requirements.

(1) TR SO₂ Group 1 emissions limitation.

(i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, TR SO₂ Group 1 allowances available for deduction for such control period under § 97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all TR SO₂ Group 1 units at the source.

(ii) If total SO₂ emissions during a control period in a given year from the TR SO₂ Group 1 units at a TR SO₂ Group 1 source are in excess of the TR SO₂ Group 1 emissions limitation set forth in paragraph (c)(1)(i) of this section, then:

(A) The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall hold the TR SO₂ Group 1 allowances required for deduction under § 97.624(d); and

(B) The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

(2) TR SO₂ Group 1 assurance provisions.

(i) If total SO₂ emissions during a control period in a given year from all TR SO₂ Group 1 units at TR SO₂ Group 1

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sources in a State (and Indian country within the borders of such State) exceed the State assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO₂ emissions during such control period exceeds the common designated representative's assurance level for the State and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR SO₂ Group 1 allowances available for deduction for such control period under § 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with § 97.625(b), of multiplying—

(A) The quotient of the amount by which the common designated representative's share of such SO₂ emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such State) for such control period, by which each common designated representative's share of such SO₂ emissions exceeds the respective common designated representative's assurance level; and

(B) The amount by which total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level.

(ii) The owners and operators shall hold the TR SO₂ Group 1 allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii) Total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total SO₂ emissions exceed the sum, for such control period, of the State SO₂ Group 1 trading budget under § 97.610(a) and the State's variability limit under § 97.610(b).

(iv) It shall not be a violation of this subpart or of the Clean Air Act if total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representative's share of total SO₂ emissions from the TR SO₂ Group 1 units at TR SO₂ Group 1 sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level.

(v) To the extent the owners and operators fail to hold TR SO₂ Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section,

(A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B) Each TR SO₂ Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

(3) Compliance periods.

(i) A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under § 97.630(b) and for each control period thereafter.

(ii) A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under § 97.630(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i) A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for

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**SECTION E. Source Group Restrictions.**

control period in a given year must be a TR SO₂ Group 1 allowance that was allocated for such control period or a control period in a prior year.

(ii) A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) of this section for a control period in a given year must be a TR SO₂ Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR SO₂ Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with this subpart.

(6) Limited authorization. A TR SO₂ Group 1 allowance is a limited authorization to emit one ton of SO₂ during the control period in one year. Such authorization is limited in its use and duration as follows:

(i) Such authorization shall only be used in accordance with the TR SO₂ Group 1 Trading Program; and

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

(7) Property right. A TR SO₂ Group 1 allowance does not constitute a property right.

(d) Title V permit requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR SO₂ Group 1 allowances in accordance with this subpart.

(2) A description of whether a unit is required to monitor and report SO₂ emissions using a continuous emission monitoring system (under subpart H of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under § 75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§ 97.630 through 97.635 may be added to, or changed in, a title V permit using minor permit modification procedures in accordance with §§ 70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§ 70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter.

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i) The certificate of representation under § 97.616 for the designated representative for the source and each TR SO₂ Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation;

provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under § 97.616 changing the designated representative.

(ii) All emissions monitoring information, in accordance with this subpart.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR SO₂ Group 1 Trading Program.

(2) The designated representative of a TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall make all submissions required under the TR SO₂ Group 1 Trading Program, except as provided in § 97.618. This requirement

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does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in parts 70 and 71 of this chapter.

(f) Liability.

(1) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 source or the designated representative of a TR SO₂ Group 1 source shall also apply to the owners and operators of such source and of the TR SO₂ Group 1 units at the source.

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

(g) Effect on other authorities. No provision of the TR SO₂ Group 1 Trading Program or exemption under § 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR SO₂ Group 1 source or TR SO₂ Group 1 unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

032 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Transport Rule (TR) NO_x Ozone Season Trading Program Requirements (40 CFR § 97.806)]

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.813 through 97.818.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the designated representative, of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.830 through 97.835.

(2) The emissions data determined in accordance with §§97.830 through 97.835 shall be used to calculate allocations of CSAPR NO_x Ozone Season Group 2 allowances under §§97.811(a)(2) and (b) and 97.812 and to determine compliance with the CSAPR NO_x Ozone Season Group 2 emissions limitation and assurance provisions under paragraph (c) of this section, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with §§97.830 through 97.835 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_x emissions requirements

(1) CSAPR NO_x Ozone Season Group 2 emissions limitation.

(i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NO_x Ozone Season Group 2 source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold, in the source's compliance account, CSAPR NO_x Ozone Season Group 2 allowances available for deduction for such control period under §97.824(a) in an amount not less than the tons of total NO_x emissions for such control period from all CSAPR NO_x Ozone Season Group 2 units at the source.

(ii) If total NO_x emissions during a control period in a given year from the CSAPR NO_x Ozone Season Group 2 units at a CSAPR NO_x Ozone Season Group 2 source are in excess of the CSAPR NO_x Ozone Season Group 2 emissions limitation set forth in paragraph (c)(1)(i) of this section, then:

(A) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall hold the CSAPR NO_x Ozone Season Group 2 allowances required for deduction under §97.824(d); and

(B) The owners and operators of the source and each CSAPR NO_x Ozone Season Group 2 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

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(2) CSAPR NOX Ozone Season Group 2 assurance provisions.

(i) If total NOX emissions during a control period in a given year from all base CSAPR NOX Ozone Season Group 2 units at base CSAPR NOX Ozone Season Group 2 sources in a State (and Indian country within the borders of such State) exceed the State assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NOX emissions during such control period exceeds the common designated representative's assurance level for the State and such control period, shall hold (in the assurance account established for the owners and operators of such group) CSAPR NOX Ozone Season Group 2 allowances available for deduction for such control period under §97.825(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with §97.825(b), of multiplying—

(A) The quotient of the amount by which the common designated representative's share of such NOX emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the State (and Indian country within the borders of such State) for such control period, by which each common designated representative's share of such NOX emissions exceeds the respective common designated representative's assurance level; and

(B) The amount by which total NOX emissions from all base CSAPR NOX Ozone Season Group 2 units at base CSAPR NOX Ozone Season Group 2 sources in the State (and Indian country within the borders of such State) for such control period exceed the State assurance level.

(ii) The owners and operators shall hold the CSAPR NOX Ozone Season Group 2 allowances required under paragraph (c)(2)(i) of this section, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after the year of such control period.

(iii) Total NOX emissions from all base CSAPR NOX Ozone Season Group 2 units at base CSAPR NOX Ozone Season Group 2 sources in a State (and Indian country within the borders of such State) during a control period in a given year exceed the State assurance level if such total NOX emissions exceed the sum, for such control period, of the State NOX Ozone Season Group 2 trading budget under §97.810(a) and the State's variability limit under §97.810(b).

(iv) It shall not be a violation of this subpart or of the Clean Air Act if total NOX emissions from all base CSAPR NOX Ozone Season Group 2 units at base CSAPR NOX Ozone Season Group 2 sources in a State (and Indian country within the borders of such State) during a control period exceed the State assurance level or if a common designated representative's share of total NOX emissions from the base CSAPR NOX Ozone Season Group 2 units at base CSAPR NOX Ozone Season Group 2 sources in a State (and Indian country within the borders of such State) during a control period exceeds the common designated representative's assurance level.

(v) To the extent the owners and operators fail to hold CSAPR NOX Ozone Season Group 2 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) of this section,

(A) The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B) Each CSAPR NOX Ozone Season Group 2 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) of this section and each day of such control period shall constitute a separate violation of this subpart and the Clean Air Act.

(3) Compliance periods.

(i) A CSAPR NOX Ozone Season Group 2 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, 2017 or the deadline for meeting the unit's monitor certification requirements under §97.830(b) and for each control period thereafter.

(ii) A base CSAPR NOX Ozone Season Group 2 unit shall be subject to the requirements under paragraph (c)(2) of this section for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under §97.830(b) and for each control period thereafter.

**SECTION E. Source Group Restrictions.**

(4) Vintage of CSAPR NOX Ozone Season Group 2 allowances held for compliance.

(i) A CSAPR NOX Ozone Season Group 2 allowance held for compliance with the requirements under paragraph (c)(1)(i) of this section for a control period in a given year must be a CSAPR NOX Ozone Season Group 2 allowance that was allocated or auctioned for such control period or a control period in a prior year.

(ii) A CSAPR NOX Ozone Season Group 2 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (c)(2)(i) through (iii) of this section for a control period in a given year must be a CSAPR NOX Ozone Season Group 2 allowance that was allocated or auctioned for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each CSAPR NOX Ozone Season Group 2 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with this subpart.

(6) Limited authorization. A CSAPR NOX Ozone Season Group 2 allowance is a limited authorization to emit one ton of NOX during the control period in one year. Such authorization is limited in its use and duration as follows:

(i) Such authorization shall only be used in accordance with the CSAPR NOX Ozone Season Group 2 Trading Program; and

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

(7) Property right. A CSAPR NOX Ozone Season Group 2 allowance does not constitute a property right.

(d) Title V permit requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of CSAPR NOX Ozone Season Group 2 allowances in accordance with this subpart.

(2) A description of whether a unit is required to monitor and report NOX emissions using a continuous emission monitoring system (under subpart H of part 75 of this chapter), an excepted monitoring system (under appendices D and E to part 75 of this chapter), a low mass emissions excepted monitoring methodology (under §75.19 of this chapter), or an alternative monitoring system (under subpart E of part 75 of this chapter) in accordance with §§97.830 through 97.835 may be added to, or changed in, a title V permit using minor permit modification procedures in accordance with §§70.7(e)(2) and 71.7(e)(1) of this chapter, provided that the requirements applicable to the described monitoring and reporting (as added or changed, respectively) are already incorporated in such permit. This paragraph explicitly provides that the addition of, or change to, a unit's description as described in the prior sentence is eligible for minor permit modification procedures in accordance with §§70.7(e)(2)(i)(B) and 71.7(e)(1)(i)(B) of this chapter.

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each CSAPR NOX Ozone Season Group 2 source and each CSAPR NOX Ozone Season Group 2 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i) The certificate of representation under §97.816 for the designated representative for the source and each CSAPR NOX Ozone Season Group 2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under §97.816 changing the designated representative.

(ii) All emissions monitoring information, in accordance with this subpart.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the CSAPR NOX Ozone Season Group 2 Trading Program.

**SECTION E. Source Group Restrictions.**

(2) The designated representative of a CSAPR NOx Ozone Season Group 2 source and each CSAPR NOx Ozone Season Group 2 unit at the source shall make all submissions required under the CSAPR NOx Ozone Season Group 2 Trading Program, except as provided in §97.818. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in parts 70 and 71 of this chapter.

(f) Liability.

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

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

(g) Effect on other authorities. No provision of the CSAPR NOx Ozone Season Group 2 Trading Program or exemption under §97.805 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a CSAPR NOx Ozone Season Group 2 source or CSAPR NOx Ozone Season Group 2 unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

[Note: On July 6, 2011, EPA promulgated the Cross-State Air Pollution Rule (CSAPR) to replace CAIR. The CSAPR provisions of 40 CFR Part 97, Subpart AAAAA (relating to CSAPR NOx Annual Trading Program), replaced the provisions of 40 CFR Part 96, Subpart AA (relating to CAIR NOx Annual Trading Program General Provisions), and remain in effect. On October 26, 2016, EPA promulgated the CSAPR Update to establish the provisions of 40 CFR Part 97, Subpart EEEEE (relating to CSAPR NOx Ozone Season Group 2 Trading Program), to replace the previously-established CAIR NOx Ozone Season Trading Program and CSAPR NOx Ozone Season Group 1 Trading Program for certain states, including Pennsylvania, beginning with the 2017 ozone season. On April 30, 2021, EPA promulgated the Revised CSAPR Update to establish the provisions of 40 CFR Part 97, Subpart GGGGG (relating to CSAPR NOx Ozone Season Group 3 Trading Program), to replace the provisions of 40 CFR Part 97, Subpart EEEEE, for certain states, including Pennsylvania, beginning with the 2021 ozone season (though DEP will accept CSAPR NOx Ozone Season Group 2 allowances of current year vintage from other states, if available). Accordingly, the permittee shall surrender CSAPR NOx Annual allowances and CSAPR NOx Ozone Season Group 2 allowances, CSAPR NOx Ozone Season Group 3 allowances or CSAPR NOx Ozone Season Expanded Group 2 allowances, as defined in 40 CFR §§ 97.402, 97.802, and 97.1002, respectively, instead of the CAIR NOx allowances and CAIR NOx Ozone Season allowances indicated in 25 Pa. Code § 129.204(c), as the latter are no longer available.]

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

**SECTION E. Source Group Restrictions.**

Group Name: OIL STORAGE

Group Description: No.2 and fuel Oil Storage Tanks

Sources included in this group

ID	Name
122	#2 OIL STORAGE TANK (1.05 MMGAL)
123	FUEL OIL STORAGE TANKS(2)

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.

001 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

Fuel throughput shall be monitored on a weekly basis.

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

Fuel throughput shall be recorded on a weekly basis.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: TURBINES

Group Description: Diesel / Kerosene Peaking Turbines

Sources included in this group

ID	Name
037	NO. 10 COMBUSTION TURBINE
038	NO. 20 COMBUSTION TURBINE
039	NO. 30 COMBUSTION TURBINE
040	NO. 40 COMBUSTION TURBINE

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 these turbines at any time, in excess of 0.027 gr/dscf, pursuant to 25 Pa. Code § 123.13 (c)(1)(ii).

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from these turbines 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 §127.512]

Operating permit terms and conditions.

Only No. 2 fuel oil, kerosene, or a mixture of kerosene and No.2 fuel oil shall be burned in these turbines.

Throughput Restriction(s).

004 [25 Pa. Code §127.512]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code §129.112(c)(9)]

(a) The annual capacity factor for each turbine shall not exceed 5%.

(b) The annual capacity factor is the ratio of the unit's actual electric output (expressed in MWe/hr) to the unit's nameplate capacity [or maximum observed hourly gross load (in MWe/hr) if greater than the nameplate capacity] multiplied by 8,760 hours during a period of 12 consecutive calendar months.

[Compliance with this condition assures compliance with RACT II requirements under 25 Pa. Code §129.97(g)(2).]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

005 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The net electrical power generated (MWH) by each turbine shall be monitored monthly.

006 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall monitor the fuel usage and hours of operation for each of these turbines on a monthly basis.

**SECTION E. Source Group Restrictions.****IV. RECORDKEEPING REQUIREMENTS.****# 007 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The following information shall be recorded for each turbine:

- (a) certification from the fuel supplier of the type of fuel; and
- (b) monthly electrical power (MWe/hr) generated for this turbine.

008 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

Sufficient records and calculations shall be performed to demonstrate compliance with each emission limit for each turbine.

009 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

For each turbine, the following shall be recorded:

- (a) The net electrical power generated (MWH) shall be recorded monthly.
- (b) The annual capacity factor shall be calculated and recorded monthly.

010 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

The permittee shall record the fuel usage and hours of operation for each turbine on a monthly basis.

V. REPORTING REQUIREMENTS.**# 011 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

Annual reports of fuel consumption, hours of operation, and megawatts generated by these turbines and generators shall be made available to the Department upon request.

VI. WORK PRACTICE REQUIREMENTS.**# 012 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 129.97(c) and 129.112(c)]

These turbines shall be operated and maintained in accordance with manufacturers specifications and with good operating practices.

013 [25 Pa. Code §129.202]**Stationary combustion turbines.**

(a) By October 31 of each year, the permittee shall calculate the difference between the actual emissions from each stationary combustion turbine for the period from May 1 through September 30 and the allowable emissions for that period.

(b) The permittee shall calculate allowable emissions by multiplying the unit's cumulative heat input for the period by the applicable emission rate set forth below

(1) The emission rate for a stationary simple cycle combustion turbine with a nameplate rated capacity of greater than 100 million Btu/hour but less than or equal to 250 million Btu/hour heat input shall be as follows:

- (A) When firing natural gas or a noncommercial gaseous fuel, 0.20 lbs NO_x/MMBtu or 2.2 lbs NO_x/MWH.
- (B) When firing oil, 0.30 lbs NO_x/MMBtu or 3.0 lbs NO_x/MWH.

(2) The emission rate for a stationary combustion turbine with a nameplate rated capacity of greater than 250 million Btu/hour heat input that is not subject to § 145.8(c) or (d) is 0.17 lbs NO_x per million Btu heat input.

014 [25 Pa. Code §129.204]**Emission accountability.**

**SECTION E. Source Group Restrictions.**

- (a) If the affected source(s) has NOx CEMS, the permittee shall determine actual emissions in accordance with the CEMS data reported to the Department. Any data invalidated under Chapter 139 (relating to sampling and testing) shall be substituted with data calculated using the potential emission rate for the unit or, if approved by the Department in writing, an alternative amount of emissions that is more representative of actual emissions that occurred during the period of invalid data.
- (b) If the permittee is not required to monitor NOx emissions with a CEMS, one of the following shall be used to determine actual emissions of NOx:
- (1) The 1-year average emission rate calculated from the most recent permit emission limit compliance demonstration test data for NOx.
 - (2) The maximum hourly allowable NOx emission rate contained in the permit or the higher of the following:
 - (i) The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of the EPA publication, "AP-42 Compilation of Air Pollution Emission Factors."
 - (ii) The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of EPA's "Factor Information Retrieval (FIRE)" data system.
 - (3) CEMS data, if the permittee elects to monitor NOx emissions with a CEMS. The permittee shall monitor emissions and report the data from the CEMS in accordance with Chapter 139 or Chapter 145 (relating to interstate pollution transport reduction). Any data invalidated under Chapter 139 shall be substituted with data calculated using the potential emission rate for the unit or, if approved by the Department in writing, an alternative amount of emissions that is more representative of actual emissions that occurred during the period of invalid data.
 - (4) An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The permittee shall demonstrate that the alternate procedure does not underestimate actual emissions throughout the allowable range of operating conditions. In regard to obtaining the Department's approval for an alternate calculation method and recordkeeping procedure for actual emissions, the permittee may request an adjustment to the allowable emissions calculations set forth in § 129.201—129.203. An allowable emission adjustment may not overestimate a unit's allowable emissions and must be based upon the parameters and procedures proposed in the alternate calculation method for actual emissions. The alternate calculation and recordkeeping procedures must be approved by the Department, in writing, prior to implementation.

015 [25 Pa. Code §129.204]**Emission accountability.**

- (a) The permittee shall surrender to the Department one CAIR NOx allowance and one CAIR NOx Ozone Season allowance, as defined in 40 CFR 96.102 and 96.302 (relating to definitions), for each ton of NOx by which the combined actual emissions exceed the allowable emissions of the units subject to this section at a facility from May 1 through September 30. The surrendered allowances shall be of current year vintage. For the purpose of determining the amount of allowances to surrender, any remaining fraction of a ton equal to or greater than 0.50 ton is deemed to equal 1 ton and any fraction of a ton less than 0.50 ton is deemed to equal zero tons.
- (b) If the combined allowable emissions from units subject to this section at a facility from May 1 through September 30 exceed the combined actual emissions from units subject to this section at the facility during the same period, the permittee may deduct the difference or any portion of the difference from the amount of actual emissions from units subject to this section at the permittee's other facilities.
- (c) By November 1 of each year, the permittee shall surrender the required NOx allowances to the Department's designated NOx allowance tracking system account and provide to the Department, in writing, the following:
- (1) The serial number of each NOx allowance surrendered.
 - (2) The calculations used to determine the quantity of NOx allowances required to be surrendered.

**SECTION E. Source Group Restrictions.**

(d) If the permittee fails to comply with subsection (c), the permittee shall by December 31 surrender three NOx allowances of the current or later year vintage for each NOx allowance that was required to be surrendered by November 1 of that year.

(e) The surrender of NOx allowances under subsection (d) does not affect the liability of the permittee for any fine, penalty or assessment, or an obligation to comply with any other remedy for the same violation, under the CAA or the act.

(1) For purposes of determining the number of days of violation, if a facility has excess emissions for the period May 1 through September 30, each day in that period (153 days) constitutes a day in violation unless the permittee demonstrates that a lesser number of days should be considered.

(2) Each ton of excess emissions is a separate violation.

[Note: On July 6, 2011, EPA promulgated the Cross-State Air Pollution Rule (CSAPR) to replace CAIR. The CSAPR provisions of 40 CFR Part 97, Subpart AAAAA (relating to CSAPR NOx Annual Trading Program), replaced the provisions of 40 CFR Part 96, Subpart AA (relating to CAIR NOx Annual Trading Program General Provisions), and remain in effect. On October 26, 2016, EPA promulgated the CSAPR Update to establish the provisions of 40 CFR Part 97, Subpart EEEEE (relating to CSAPR NOx Ozone Season Group 2 Trading Program), to replace the previously-established CAIR NOx Ozone Season Trading Program and CSAPR NOx Ozone Season Group 1 Trading Program for certain states, including Pennsylvania, beginning with the 2017 ozone season. On April 30, 2021, EPA promulgated the Revised CSAPR Update to establish the provisions of 40 CFR Part 97, Subpart GGGGG (relating to CSAPR NOx Ozone Season Group 3 Trading Program), to replace the provisions of 40 CFR Part 97, Subpart EEEEE, for certain states, including Pennsylvania, beginning with the 2021 ozone season (though DEP will accept CSAPR NOx Ozone Season Group 2 allowances of current year vintage from other states, if available). Accordingly, the permittee shall surrender CSAPR NOx Annual allowances and CSAPR NOx Ozone Season Group 2 allowances, CSAPR NOx Ozone Season Group 3 allowances or CSAPR NOx Ozone Season Expanded Group 2 allowances, as defined in 40 CFR §§ 97.402, 97.802, and 97.1002, respectively, instead of the CAIR NOx allowances and CAIR NOx Ozone Season allowances indicated in 25 Pa. Code § 129.204(c), as the latter are no longer available.]

VII. ADDITIONAL REQUIREMENTS.

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

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



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
033	BOILER 3		
Emission Limit			
0.100	Lbs/MMBTU	firing natural gas, RACT II and III	NOX
0.120	Lbs/MMBTU	firing No. 2 oil, RACT II and III	NOX
0.290	Lbs/MMBTU	Boilers 3 & 4 combined, RACT I	NOX
5,568.000	Tons/Yr	Boilers 3 & 4 combined, RACT I	NOX
0.100	Lbs/MMBTU	Particulate matter per stack	TSP
0.100	Lbs/MMBTU	Particulate matter per stack, combined Boilers 3 & 4	TSP
0.002	Lbs/MMBTU	Boilers 3 & 4 combined emissions	VOC
35.900	Tons/Yr	Boilers 3 & 4 combined emissions	VOC
034	AUXILIARY BOILER A		
Emission Limit			
130.000	PPMV	drybasis, corr to 3% O ₂ , or 0.13 lb per MMBtu of steam output. (fuel oil)	CO
130.000	PPMV	drybasis, correct to 3% O ₂ , or 0.13 lb/MMBtu of steam output firing fuel oil	CO
0.001	Lbs/MMBTU	or 1.4E-03 lb per MMBtu of steam output. (fuel oil)	Hydrochloric Acid
0.001	Lbs/MMBTU	or 1.4E-03 lb/MMBtu of steam output firing fuel oil	Hydrochloric Acid
0.005	gr/MMBTU	or 8.8E-07 lb/MMBtu of steam output firing fuel oil	Mercury
0.014	gr/MMBTU	or 2.5E-06 lb per MMBtu of steam output. (fuel oil)	Mercury
0.100	Lbs/MMBTU	Firing natural gas, RACT III	NOX
0.120	Lbs/MMBTU	Firing No. 2 oil, RACT III	NOX
36.000	Tons/Yr		NOX
0.053	gr/MMBTU	1.4E-05 lb per MMBtu of steam output. (natural gas)	SO ₂
0.008	Lbs/MMBTU	or 9.6E-03 lb/MMBtu of steam output firing fuel oil (filterable PM only)	TSP
0.079	Lbs/MMBTU	or 9.6E-03 lb per MMBtu of steam output (filterable PM only). (fuel oil)	TSP
0.240	Lbs/MMBTU	Particulate Matter	TSP
035	AUXILIARY BOILER B		
Emission Limit			
130.000	PPMV	drybasis, corr to 3% O ₂ , or 0.13 lb per MMBtu of steam output. (fuel oil)	CO
130.000	PPMV	drybasis, correct to 3% O ₂ , or 0.13 lb/MMBtu of steam output firing fuel oil	CO
0.001	Lbs/MMBTU	or 1.4E-03 lb per MMBtu of steam output. (fuel oil)	Hydrochloric Acid
0.001	Lbs/MMBTU	or 1.4E-03 lb/MMBtu of steam output firing fuel oil	Hydrochloric Acid
0.005	gr/MMBTU	or 8.8E-07 lb/MMBtu of steam output firing fuel oil	Mercury
0.014	gr/MMBTU	or 2.5E-06 lb per MMBtu of steam output. (fuel oil)	Mercury
0.100	Lbs/MMBTU	Firing natural gas, RACT III	NOX

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
0.120	Lbs/MMBTU	Firing No. 2 oil, RACT III	NOX
36.000	Tons/Yr		NOX
0.053	gr/MMBTU	1.4E-05 lb per MMBtu of steam output. (natural gas)	SO2
0.008	Lbs/MMBTU	or 9.6E-03 lb/MMBtu of steam output firing fuel oil (filterable PM only)	TSP
0.079	Lbs/MMBTU	or 9.6E-03 lb per MMBtu of steam output (filterable PM only). (fuel oil)	TSP
0.240	Lbs/MMBTU	Particulate Matter	TSP
036	AUXILIARY BOILER C		
Emission Limit		Pollutant	
130.000	PPMV	drybasis, corr to 3% O2, or 0.13 lb per MMBtu of steam output. (fuel oil)	CO
130.000	PPMV	drybasis, correct to 3% O2, or 0.13 lb/MMBtu of steam output firing fuel oil	CO
0.001	Lbs/MMBTU	or 1.4E-03 lb per MMBtu of steam output. (fuel oil)	Hydrochloric Acid
0.001	Lbs/MMBTU	or 1.4E-03 lb/MMBtu of steam output firing fuel oil	Hydrochloric Acid
0.005	gr/MMBTU	or 8.8E-07 lb/MMBtu of steam output firing fuel oil	Mercury
0.014	gr/MMBTU	or 2.5E-06 lb per MMBtu of steam output. (fuel oil)	Mercury
0.100	Lbs/MMBTU	Firing natural gas, RACT III	NOX
0.120	Lbs/MMBTU	Firing No. 2 oil, RACT III	NOX
36.000	Tons/Yr		NOX
0.053	gr/MMBTU	1.4E-05 lb per MMBtu of steam output. (natural gas)	SO2
0.008	Lbs/MMBTU	or 9.6E-03 lb/MMBtu of steam output firing fuel oil (filterable PM only)	TSP
0.079	Lbs/MMBTU	or 9.6E-03 lb per MMBtu of steam output (filterable PM only). (fuel oil)	TSP
0.240	Lbs/MMBTU	Particulate Matter	TSP
041	BOILER 4		
Emission Limit		Pollutant	
0.100	Lbs/MMBTU	firing natural gas, RACT II and III	NOX
0.120	Lbs/MMBTU	firing No. 2 oil, RACT II and III	NOX
0.290	Lbs/MMBTU	Boilers 3 & 4 combined, RACT I	NOX
5,568.000	Tons/Yr	Boilers 3 & 4 combined, RACT I	NOX
0.100	Lbs/MMBTU	Particulate matter per stack	TSP
0.100	Lbs/MMBTU	Particulate matter per stack, combined Boilers 3 & 4	TSP
0.002	Lbs/MMBTU	Boilers 3 & 4 combined emissions	VOC
35.900	Tons/Yr	Boilers 3 & 4 combined emissions	VOC

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description	Emission Limit	Pollutant
037	NO. 10 COMBUSTION TURBINE		
		500.000 PPMV	SO2
		0.027 gr/DRY FT3	TSP
038	NO. 20 COMBUSTION TURBINE		
		500.000 PPMV	SO2
		0.027 gr/DRY FT3	TSP
039	NO. 30 COMBUSTION TURBINE		
		500.000 PPMV	SO2
		0.027 gr/DRY FT3	TSP
040	NO. 40 COMBUSTION TURBINE		
		500.000 PPMV	SO2
		0.027 gr/DRY FT3	TSP

Site Emission Restriction Summary

Emission Limit	Pollutant
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**SECTION H. Miscellaneous.**

The Department has determined that the emissions from the following activities, excluding those indicated as site level requirements, in Section C, of this permit, do not require additional limitations, monitoring, or recordkeeping:

- Lube oil reservoirs and vents.
- Chemical storage tanks.
- Handling of wet solids.
- Oil-water separator.
- Chemistry lab vents.
- Miscellaneous delivery truck traffic.

The following previously issued Operating Permits serve as the basis for certain terms and conditions set forth in this Title V Permit:

OP-23-00017A, as amended.

On October 31, 2000, PECO Energy Co. requested that the Department change their name to Exelon Generation Company, LLC. On March 6, 2001, the Department accepted the name and address change, and the Title V permit has been revised to reflect these changes.

September 2004. APS No. 346561; Authorization No. 562528: This Title V Permit has been administratively amended to incorporate the requirements of a plan approval (PA-23-0017A) in accordance with 25 Pa. Code § 127.450(a)(5). The plan approval (PA-23-0017A) was for the installation of Selective Non-Catalytic Reduction (SNCR) Systems on Boiler Nos. 1 and 2 (Source ID Nos. 031 and 032). Added requirements include a limit on the amount of ammonia emitted from the stack of 10 ppm_{dv} and monitoring and recordkeeping of the amount of reagent being injected whenever the SNCR Systems are in operation.

Other Administrative Changes Made to This Permit Under This Revision

- (a). The Responsible Official Contact information was changed to reflect the current responsible official at this facility.
- (b). Section C Condition #021 - The tiered monitoring approach for facility-wide monitoring for odors, visible emissions, and fugitive particulate matter replaces an older version requiring the facility to monitor once per day for odors, visible emissions, and fugitive particulate matter through the effective dates of the permit.
- (c). Section C Condition #021 - a reference to another condition number in this permit was removed and replaced by a direct reference to 25 Pa. Code § 123.43.
- (d). The phone number for Air Quality was corrected in Section C Condition #029 to reflect the Department's move to the new office building in Norristown, PA.
- (e). The response time for the facility to call the Department in case of a malfunction (Section C, Condition #029(a)) was changed from "one hour" to "two hours."
- (f). NO_x Budget Account Representatives at this facility have changed since the initial issuance of this permit. The permit has been changed to reflect this change in personnel.
- (g). For Condition #038 under Source ID No. 031, all scrubber trains are utilized in controlling particulate matter and sulfur dioxide. There is no back-up scrubber. This was incorrectly described in the Title V Permit, and the condition was changed to correctly describe the operation of this source at this facility.
- (h). For Source ID Nos. 033 and 041, CEM Systems measure sulfur dioxide emissions for the acid rain program only. References to 25 Pa. Code Chapter 139 were removed since the facility is not required by the Department to monitor and record sulfur dioxide emissions from these sources by using CEMS. CEMS are only used in these sources in the Acid Rain Program.

December, 2004, APS No.: 570416, AUTH ID: 570461. The Department amended this permit for cause to incorporate the Acid Rain (Title IV) renewal permit into the Title V permit.

September, 2008. APS: 346561, AUTH: 643648. The Department renewed this permit. No new sources have been added since the last amendment.

- Several new regulations have become applicable, these are: Small NO_x regulations for the four (4) turbines, the state's Mercury Rule, and 40 CFR, Subpart 64 (CAM). Sources 031 and 032 are subject to each of these and they have been incorporated into this renewal permit.
- Coal Car Thaw Pit (Source 124) has been removed from the permit at the request of Exelon.
- At the request of DEP Central Office, the Acid Rain (Title IV) permit has been removed from the TVOP and is its own stand-alone operating permit.
- Submittal dates for the annual compliance certification and semi-annual deviation reports have been changed to April 1 and October 1, respectively.

**SECTION H. Miscellaneous.**

May, 2008. APS: 346561, AUTH: 711670. Major modification to incorporate the federal CAIR regulations. The Department removed the permit conditions pertaining to mercury as these regulations have been withdrawn.

November 2013. APS: 346561, AUTH: 971592. Permit renewal.

- The following sources have been shut down and the the ERCs generated: Boiler 1 (source 031) in February 2011, Boiler 2, (Source 032), Centrifuge Dryers (Sources 113 & 114), and the Coal Handling Fugitives (Source F01) all in April 2011. The above shutdowns include the respective control devices for these sources.
- New applicable regulations for this facility include NESHAP DDDDD, UUUUU for the boilers.
- RFDs incorporated are: 699, 1019, 1593, 2091, and 2332.
- Incorporated the Acid Rain Permit (Title IV) ORIS number 3161 into the TVOP.

February 2015. APS: 346561, Auth: 1059904. Permit amendment to address a change in the federal regulation regarding tuneup date requirements for Sources 031, 032, 033, and 041. This is to match the changes made in 40 CFR § 63.10005(f) for existing EGUs without a neural network..

April 2015. APS: 346561, Auth: 1067454. Administrative amendment to address a change in the responsible official from Paul Weeks to Bryan Bennett.

December 2015. APS: 346561, AUTH: 1100105. Administrative amendment to address a change in the federal regulations (40 CFR § 63.7510(e), which allows for an additional 180 days to demonstrate initial compliance with the emission limits for Sources 034, 035, and 036, all subject to Subpart DDDDD).

August 2017. APS: 346561, Auth 1188054. Administrative amendment to address the emission limits and testing for Total Select Metals (TSM) as allowed by 40 CFR 63, Subpart DDDDD.

March 2019. APS: 346561, AUTH: 1231260. Permit renewal.

- RFD No. 4386 and applicable RACT II requirements are incorporated into the permit.
- Acid Rain Permit (Title IV, ORIS number 3161) is a stand-alone permit issued by DEP effective January 1, 2018 through December 31, 2022. All permit conditions associated with Acid Rain Permit are removed.
- CSAPR conditions are added and CAIR conditions are removed.
- Applicable requirements of 40 CFR Part 63 Subpart DDDDD are added for Sourced ID 042.

April 2025: AUTH 1450624: APS 346561. Renewal of TVOP. Update of RACT III requirements for all boilers; update of requirements for main boilers under 40 CFR Part 63 Subpart UUUUU; update of requirements for auxiliary boilers under 40 CFR Part 63 Subpart DDDDD.



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