



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

**TITLE V/STATE OPERATING PERMIT**

Issue Date: May 19, 2022

Effective Date: May 19, 2022

Expiration Date: May 18, 2027

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: 23-00082**

Federal Tax Id - Plant Code: 54-1907703-1

**Owner Information**

Name: LIBERTY ELEC POWER LLC  
Mailing Address: 1000 INDUSTRIAL HWY  
EDDYSTONE, PA 19022-1529

**Plant Information**

Plant: LIBERTY ELEC POWER LLC/EDDYSTONE PLT  
Location: 23 Delaware County 23821 Eddystone Borough  
SIC Code: 4911 Trans. & Utilities - Electric Services

**Responsible Official**

Name: JOHN J KOLARICK  
Title: PLT MGR  
Phone: (610) 872 - 8022 Email: John.Kolarick@vistracorp.com

**Permit Contact Person**

Name: DANIEL DUFF  
Title: EHS MGR  
Phone: (610) 872 - 7585 Email: Daniel.Duff@vistracorp.com

[Signature] \_\_\_\_\_  
JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER

**SECTION A. Table of Contents****Section A. Facility/Source Identification**

Table of Contents  
Site Inventory List

**Section B. General Title V Requirements**

- #001 Definitions
- #002 Prohibition of Air Pollution
- #003 Property Rights
- #004 Permit Expiration
- #005 Permit Renewal
- #006 Transfer of Ownership or Operational Control
- #007 Inspection and Entry
- #008 Compliance Requirements
- #009 Need to Halt or Reduce Activity Not a Defense
- #010 Duty to Provide Information
- #011 Reopening and Revising the Title V Permit for Cause
- #012 Reopening a Title V Permit for Cause by EPA
- #013 Operating Permit Application Review by the EPA
- #014 Significant Operating Permit Modifications
- #015 Minor Operating Permit Modifications
- #016 Administrative Operating Permit Amendments
- #017 Severability Clause
- #018 Fee Payment
- #019 Authorization for De Minimis Emission Increases
- #020 Reactivation of Sources
- #021 Circumvention
- #022 Submissions
- #023 Sampling, Testing and Monitoring Procedures
- #024 Recordkeeping Requirements
- #025 Reporting Requirements
- #026 Compliance Certification
- #027 Operational Flexibility
- #028 Risk Management
- #029 Approved Economic Incentives and Emission Trading Programs
- #030 Permit Shield
- #031 Reporting
- #032 Report Format

**Section C. Site Level Title V Requirements**

- C-I: Restrictions
- C-II: Testing Requirements
- C-III: Monitoring Requirements
- C-IV: Recordkeeping Requirements
- C-V: Reporting Requirements
- C-VI: Work Practice Standards
- C-VII: Additional Requirements
- C-VIII: Compliance Certification
- C-IX: Compliance Schedule

**Section D. Source Level Title V Requirements**

- D-I: Restrictions
- D-II: Testing Requirements
- D-III: Monitoring Requirements
- D-IV: Recordkeeping Requirements
- D-V: Reporting Requirements



## SECTION A. Table of Contents

D-VI: Work Practice Standards  
D-VII: Additional Requirements

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

### Section E. Source Group Restrictions

E-I: Restrictions  
E-II: Testing Requirements  
E-III: Monitoring Requirements  
E-IV: Recordkeeping Requirements  
E-V: Reporting Requirements  
E-VI: Work Practice Standards  
E-VII: Additional Requirements

### Section F. Alternative Operating Scenario(s)

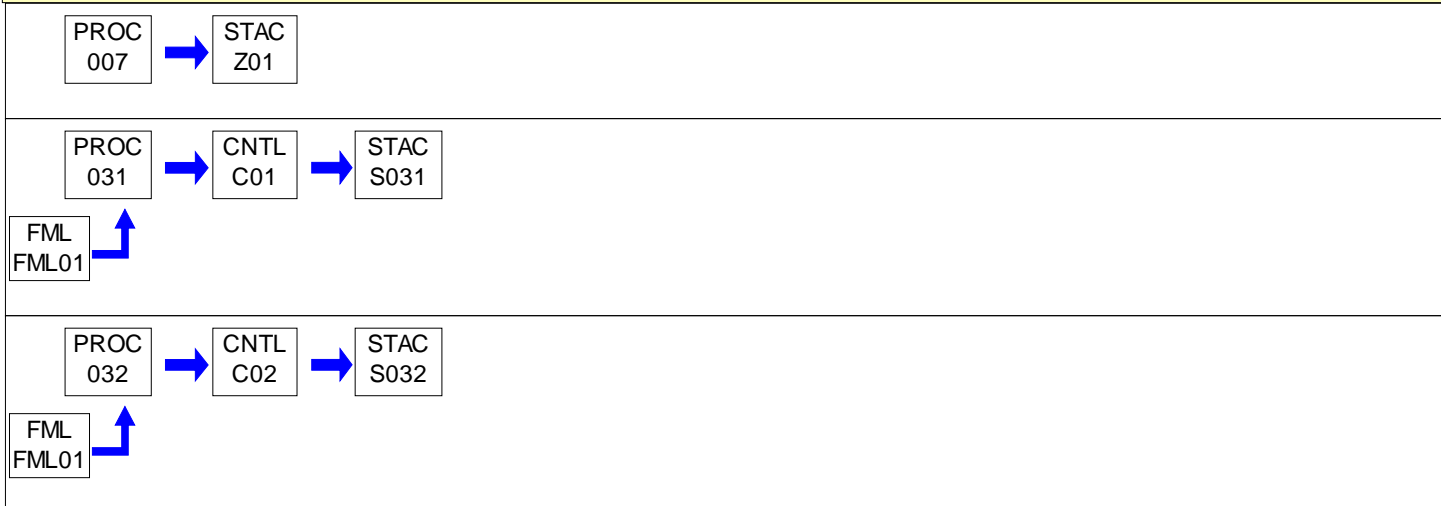
F-I: Restrictions  
F-II: Testing Requirements  
F-III: Monitoring Requirements  
F-IV: Recordkeeping Requirements  
F-V: Reporting Requirements  
F-VI: Work Practice Standards  
F-VII: Additional Requirements

### Section G. Emission Restriction Summary

### Section H. Miscellaneous

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
007	COOLING TOWER	1,135.000 MMBTU/HR	
031	COMBUSTION TURBINE 1 WITH DUCT BURNER	2,245.000 MMBTU/HR	
		N/A	NATURAL GAS
032	COMBUSTION TURBINE 2 WITH DUCT BURNER	2,245.000 MMBTU/HR	
		N/A	NATURAL GAS
C01	#1 SELECTIVE CATALYTIC REDUCTION UNIT		
C02	#2 SELECTIVE CATALYTIC REDUCTION UNIT		
FML01	NATURAL GAS LINE		
S031	TURBINE 1/DUCT BURNER STACK		
S032	TURBINE 2/DUCT BURNER STACK		
Z01	FUGITIVE EMISSIONS		

**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 act.

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

the Department.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

R3\_Air\_Apps\_and\_Notices@epa.gov

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

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

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

R3\_Air\_Apps\_and\_Notices@epa.gov

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

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

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

R3\_Air\_Apps\_and\_Notices@epa.gov

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

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

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

R3\_Air\_Apps\_and\_Notices@epa.gov

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

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

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

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

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

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

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

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



**SECTION B. General Title V Requirements**

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

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

- (1) Eight thousand dollars (\$8,000) for calendar years 2021—2025.
- (2) Ten thousand dollars (\$10,000) for calendar years 2026—2030.
- (3) Twelve thousand five hundred dollars (\$12,500) for the calendar years beginning with 2031.

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

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

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

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

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

- (1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.
- (2) One ton of NO<sub>x</sub> from a single source during the term of the permit and 5 tons of NO<sub>x</sub> at the facility during the term of the permit.
- (3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.
- (4) Six-tenths of a ton of PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.
- (5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

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

- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
- (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

**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  
Air Section  
1650 Arch Street, 3ED21  
Philadelphia, PA 19103

The Title V compliance certification shall be emailed to EPA at R3\_APD\_Permits@epa.gov.

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

(5) The results of the analyses.

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

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

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

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

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

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

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

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

**#026 [25 Pa. Code § 127.513]****Compliance Certification**

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

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

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3\_APD\_Permits@epa.gov.

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §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. Section 4003).

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

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

- (a) Construction or demolition of buildings or structures;
- (b) Grading, paving and maintenance of roads and streets;
- (c) 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;
- (d) Clearing of land;
- (e) Stockpiling of materials;
- (f) Open burning operations, as specified in 25 Pa. Code § 129.14;
- (g) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting;
- (h) Coke oven batteries, provided the fugitive air contaminants emitted from any coke oven battery comply with the standards for visible fugitive emissions in 25 Pa. Code §§ 123.44 and 129.15 (relating to limitations of visible fugitive air contaminants from operation of any coke oven battery; and coke pushing operations); and
- (i) Sources and classes of sources other than those identified in (a)-(h), above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
  - (1) The emissions are of minor significance with respect to causing air pollution; and
  - (2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

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

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Condition #002 (a - h), of this Section, if such emissions are visible at the point the emissions pass outside the person's property.

**# 004 [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.

**# 005 [25 Pa. Code §123.41]****Limitations**

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

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

**SECTION C. Site Level Requirements**

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

**# 006 [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)(1)-(9) (relating to prohibition of certain fugitive emissions).

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

The combined emissions for the facility shall not exceed the following limitations:

Pollutant	Facility Emission Limit (tons/year)*
Nitrogen Oxides (NO <sub>x</sub> )	226.8
Volatile Organic Compounds (VOC)**	50.2
Carbon Monoxide (CO)	507.4
Particulate Matter (PM/PM10)	223.9
Sulfur Dioxide (SO <sub>2</sub> )	238.0
Sulfuric Acid Mist	29.2

\* The facility annual emissions are based on a 12-month rolling period and calculated monthly as a 12-month rolling sum. The facility annual emission limits include the emissions during startups and shutdowns.

\*\* The Volatile Organic Compounds shall be calculated as methane.

**# 008 [25 Pa. Code §129.14]****Open burning operations**

The permittee may not permit the open burning of material in the Southeast Air Basin, except when the open burning results 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 public officer.
- (b) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (c) A fire set solely for cooking food.
- (d) A fire set solely for recreational or ceremonial purposes.
- (e) A fire set for the prevention and control of disease or pests, when approved by the Department.



**SECTION C. Site Level Requirements****II. TESTING REQUIREMENTS.****# 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(s) listed in Section A, of this Permit, 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, 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.

**III. MONITORING REQUIREMENTS.****# 010 [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.

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

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

The permittee shall calculate facility emissions monthly and on a 12-month rolling basis in order to demonstrate compliance with the applicable limits of this permit. These records shall include emissions during startups, shutdowns

**SECTION C. Site Level Requirements**

and malfunctions.

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

The owner/operator shall keep a record of all stack tests that are required in this permit.

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

The owner/operator shall maintain records of facility emissions on a monthly and 12-month rolling basis in order to demonstrate compliance with the applicable limits of this permit. These records shall include emissions during startups and shutdowns.

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

The owner/operator shall maintain records on all air pollution control system performance evaluations and records of calibration checks, adjustments, and maintenance performed on all equipment subject to this Operating Permit.

**# 016 [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.
- (c) The corrective action taken, if necessary, to abate the situation and prevent future occurrences.

**# 017 [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) De minimus increases without notification to the Department.
- (b) De minimus 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.

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

Regarding a malfunction of any of the sources indicated in Section A of this Operating Permit:

The owner/operator shall keep a record of the date of the malfunction, the time of the malfunction, the cause of the malfunction and the action taken to correct the malfunction.

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

(a) The owner/operator shall maintain a copy of the manufacturer's specifications for the two combustion turbines, two duct burners, cooling tower and air pollution control equipment on-site.

(b) The owner/operator shall maintain a copy of the manufacturer's specifications for all continuous emissions monitors (CEMS) that are required by this Operating Permit.

**SECTION C. Site Level Requirements****# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) Sufficient data shall be recorded so that compliance with the conditions in this Operating Permit can be determined.
- (b) Records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 021 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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. 23-00082, Facility Name: Liberty Electric."
- (b) A semi-annual deviation report, 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).

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

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

- (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.

**SECTION C. Site Level Requirements**

(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.

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

Within thirty (30) days after permit issuance, the owner/operator shall submit to the Department for approval, the proposed recordkeeping formats required in this Operating Permit.

**# 024 [25 Pa. Code §135.21]****Emission statements**

The permittee shall submit by March 1, of each year, an annual emission statement for the preceding calendar year.

**VI. WORK PRACTICE REQUIREMENTS.****# 025 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified 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.

**# 026 [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 owner/operator shall ensure that the source(s) and air pollution control device(s), listed in Section A and Section H, where applicable, of this permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturer's specifications.

**SECTION C. Site Level Requirements****# 027 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The owner/operator 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 Section A of 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.

**# 028 [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 Sections A or H, of this permit, prior to obtaining Department approval, except those modifications authorized by Condition #017(g), of Section B, of this permit.

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

(a) The owner/operator shall operate, and maintain the combustion turbines, duct burners, cooling tower, and air pollution control equipment in accordance with manufacturer's specifications as well as good air pollution control practices.

(b) The company shall operate, and maintain the selective catalytic reduction (SCR) system in accordance with the manufacturer's specifications and good air pollution control practices.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.531.]

(a) The facility is subject to the applicable requirements in 40 CFR Parts 72 through 78. In addition, the facility is subject to the applicable requirements contained in 25 Pa. Code § 127.531, regarding special conditions related to acid rain.

(b) The owner and operator of each affected source and each affected unit at the source shall:

(1) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(2) Have an Acid Rain permit.

**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.

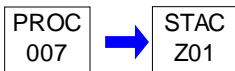
**\*\*\* Permit Shield In Effect \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 007

Source Name: COOLING TOWER

Source Capacity/Throughput: 1,135.000 MMBTU/HR

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

The owner/operator shall limit the emissions of particulate matter (PM) from the 12- cell cooling tower to 5.9 tons or less in a 12-month rolling period.

**Throughput Restriction(s).****# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The owner/operator shall limit the total dissolved/suspended solids to 4425 parts per million (ppm) by weight, or less in the cooling tower blowdown water.

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

(a) The owner/operator shall, on a calendar monthly basis, test the cooling tower blowdown water for total dissolved and suspended solids.

(b) The number of days between consecutive samples shall not be fewer than fourteen (14) nor more than forty-five (45).

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

The owner/operator shall calculate the Particulate (PM) emissions from this source monthly and as a twelve month rolling sum.

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

The owner/operator shall keep

(a) a record of the results of the testing for cooling tower blowdown water total dissolved and suspended solids.

(b) records of the Particulate (PM) emission calculations on a monthly and on a twelve month rolling sum basis.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

# 006 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) This source consists of a 12 cell cooling tower.

(b) The PM emissions from each cell of the cooling tower shall be controlled by a high efficiency drift eliminator.

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

**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: COMBUSTION TURBINE 1 WITH DUCT BURNER

Source Capacity/Throughput: 2,245.000 MMBTU/HR

N/A

NATURAL GAS

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.**

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

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



**SECTION D. Source Level Requirements**

Source ID: 032

Source Name: COMBUSTION TURBINE 2 WITH DUCT BURNER

Source Capacity/Throughput: 2,245.000 MMBTU/HR

N/A

NATURAL GAS

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.**

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

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

**SECTION E. Source Group Restrictions.**

Group Name: TURBINES

Group Description: 2 GE MS7001FA Turbines with Duct Burners

Sources included in this group

ID	Name
031	COMBUSTION TURBINE 1 WITH DUCT BURNER
032	COMBUSTION TURBINE 2 WITH DUCT BURNER

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.411]****Content of applications.**

[Compliance with the requirements in this permit condition assures compliance with the provisions found in 40 CFR §60.332(a)(1), 40 CFR 60.334(j)(1)(iii)(A)].

The following short term air contaminant emission limits are approved for each combustion turbine with duct burner:

## (a) Short Term Emission Limitation for the Combustion Turbine:

Pollutant	Emissions* **
Nitrogen Oxides (NOx)	3.5 ppmvd @ 15% oxygen
Volatile Organic Compounds (VOC)	1.4 ppmvd @ 15 % oxygen & calculated as CH4
Carbon Monoxide (CO)	9.0 ppmvd @ 15 % oxygen
Particulate Matter (PM and PM-10)	22.6 lbs/hour

\* The short term emission limitations shall be calculated as one-hour averages.

\*\* The emission rates above apply at all times except during start-up, shutdown, emergency periods as defined in Section C, Condition #022 of this permit or malfunction as defined in part (f) of this condition

## (b) Short Term Emission Limitation for the Combustion Turbine and Duct Burner:

Pollutant	Emissions* **
Nitrogen Oxides (NOx)	5.0 ppmvd @ 15% oxygen
Volatile Organic Compounds (VOC)	4.7 ppmvd @ 15 % oxygen & calculated as CH4
Carbon Monoxide (CO)	20.0 ppmvd @ 15 % oxygen
Particulate Matter (PM and PM-10)	28.1 lbs/hour

\* The short term emission limitations shall be calculated as one-hour averages.

\*\* The emission rates above apply at all times except during start-up, shutdown, emergency periods as defined in Section C, Condition #022 of this permit or malfunction as defined in part (f) of this condition.

## (c) The following conditions apply to the start-up or shutdown of each combustion turbine:

(1) A cold start-up shall be defined as an event that occurs after the combustion turbine has not been operating (flame out) for at least 48 hours. A cold start-up shall not last longer than five hours after ignition.

(2) A warm start-up shall be defined as an event that occurs after the combustion turbine has not been operating (flame out) for eight to 48 hours. A warm start-up shall not last longer than three hours after ignition.

(3) A hot start-up shall be defined as an event that occurs after the combustion turbine has not been operating (flame out) for less than eight hours. A hot start-up shall not last longer than one and a half hours after ignition.

(4) A shut down commences with the termination of fuel injection into the combustion chamber.

(d) Short-term emissions limitations contained in this condition do not apply during start-up and shut down of the combustion turbines.

**SECTION E. Source Group Restrictions.**

(e) In cases of malfunction or emergency during which the short term limits contained in this condition cannot be met, the facility shall include in the final report of the malfunction the emissions exceedance measurements and duration of exceedance.

(f) For this condition, malfunction shall be defined as 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. Malfunction shall not include failures due to improper maintenance, improper design, careless operation or intentional improper operation.

**# 002 [25 Pa. Code §127.411]****Content of applications.**

The following long term air contaminant emission limits are approved for each combustion turbine with duct burner:

Pollutant	Emission Limit (TPY)*
Nitrogen Oxides (NOx)	113.4 TPY
Volatile Organic Compounds (VOC)**	25.1 TPY**
Carbon Monoxide (CO)	253.7 TPY
Particulate Matter (PM)	109.0 TPY
Sulfur Dioxide (SO <sub>2</sub> )	119.0 TPY
Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ) Mist	14.6 TPY

\* Based on a 12-month rolling period and calculated as a 12-month rolling sum. The annual emission rate includes the emissions from start-ups, shutdowns and malfunctions.

\*\* The VOCs shall be calculated as methane.

**# 003 [25 Pa. Code §127.411]****Content of applications.**

All emissions from turbines and duct burners shall be routed to the SCR units.

**# 004 [25 Pa. Code §129.97]****Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.**

Emissions Limit Presumptive RACT II:

The following limits shall apply at all times to each turbines with or without duct burners, including start up, shut down and malfunction (per 25 Pa Code 129.97(g)(2)(i)):

NOx – 4.0 ppmv @ 15% oxygen

VOC – 2.0 ppmv @ 15% oxygen as propane

**# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.333]****Subpart GG - Standards of Performance for Stationary Gas Turbines****Standard for sulfur dioxide.**

On and after the date on which the performance test required to be conducted by 40 CFR §60.8 is completed, every owner or operator subject to the provision of this subpart shall comply with one or the other of the following conditions:

(a) No owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen and on a dry basis.

(b) No owner or operator subject to the provisions of this subpart shall burn in any stationary gas turbine any fuel which

**SECTION E. Source Group Restrictions.**

contains total sulfur in excess of 0.8 percent by weight (8000 ppmw).

[Compliance with Condition #016 of this Section assures compliance with part (b) of this condition.]

**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.44b]****Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units Standard for nitrogen oxides.**

(a) In accordance with 40 CFR 60.44b(a)(4)(i), no owner or operator of a duct burner used in a combined cycle system that is subject to the provisions of this section and that combusts only natural gas shall cause to be discharged into the atmosphere any gases that contain NO<sub>x</sub> (expressed as NO<sub>2</sub>) in excess of 0.20 lb/MMBtu.

(b) In accordance with 40 CFR 60.44b(h), the NO<sub>x</sub> standards under this section apply at all times including periods of startup, shutdown, or malfunction.

(c) In accordance with 40 CFR 60.44b(i), compliance with the emission limits under this section is determined on a 30-day rolling average basis.

**Fuel Restriction(s).****# 007 [25 Pa. Code §127.411]****Content of applications.**

The owner/operator shall combust only pipeline quality natural gas in the combustion turbines and duct burners comprising these sources.

**Throughput Restriction(s).****# 008 [25 Pa. Code §127.411]****Content of applications.**

The owner/operator shall limit the amount of natural gas combusted in the duct burners associated with the combustion turbines (Source ID 031 and Souce ID 032) to a combined total of 2117 million cubic feet or less in a 12-month rolling period.

**Control Device Efficiency Restriction(s).****# 009 [25 Pa. Code §127.411]****Content of applications.**

The owner/operator shall limit the ammonia slip from each SCR system to 10 ppm or less.

**II. TESTING REQUIREMENTS.****# 010 [25 Pa. Code §127.411]****Content of applications.**

[Compliance with the requirements of this permit condition assures compliance with the regulations found in 40 CFR §60.335 and 40 CFR §60.46b.]

(a) The permittee shall perform a stack test using the Department-approved procedures once every five (5) calendar years, where five calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five years later. 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.

(b) 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

**SECTION E. Source Group Restrictions.**

representative samples.

(c) The stack test shall, at a minimum, test for VOC, PM and PM-10, and ammonia slip concentration, using a Department approved test method(s). The permittee shall demonstrate compliance with each emission limit established for this source as per Section 60.8, Subparts GG and Db of 40 CFR Part 60, and Chapter 139 of the Rules and Regulations of the Department. NOx and CO emissions shall be tested if requested by the Department.

(d) 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.

(e) 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.

(f) 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.

**# 011 [25 Pa. Code §127.411]****Content of applications.**

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

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

**# 012 [25 Pa. Code §127.411]****Content of applications.**

(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

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

**SECTION E. Source Group Restrictions.****4. Testing Requirements:**

- a. Operating permit number
- b. Applicable federal subpart(s) (i.e. 40 CFR 60, Subpart JJJJ)

(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".

**III. MONITORING REQUIREMENTS.****# 013 [25 Pa. Code §127.411]****Content of applications.**

[Compliance with the requirements of this permit condition assures compliance with the provisions found in NSPS Subpart GG, 40 CFR §60.334(b)(3)(iii), §60.334(c) and Subpart Db, 40 CFR §60.48b(b).]

(a) The owner/operator shall install, operate, and maintain continuous emission monitors for NO<sub>x</sub>, oxygen (O<sub>2</sub>) and CO on both combustion turbines (Source ID 031 and Source ID 032).

(b) Continuous monitoring shall be conducted at the locations approved by the Department for the following: NO<sub>x</sub>, CO and O<sub>2</sub> shall be monitored downstream of the air pollution control equipment.

(c) The continuous emission monitoring systems for NO<sub>x</sub>, CO, and O<sub>2</sub> shall be installed, operated, and maintained in accordance with the requirements of 25 Pa. Code Chapter 139 of the Rules and Regulations of the Department.

(d) The continuous monitoring systems shall be operated and maintained to achieve the following data availability requirements:

Monitored Pollutants or Parameters: NO<sub>x</sub>, CO, O<sub>2</sub>

Data Availability: (a) greater than or equal to 90 percent valid hours/calendar month  
(b) greater than or equal to 95 percent valid hours/calendar quarter

Valid Hour: greater than or equal to 75 percent valid readings (45 minutes/clock hour)

(e) The continuous monitors shall be operated in such a manner as to determine compliance with the applicable limits in Conditions #001 and #002 of this Section.

**# 014 [25 Pa. Code §127.411]****Content of applications.**

[Compliance with the requirements of this permit condition assures compliance with the regulation in 40 CFR § 60.49b(d)(2).]

(a) The owner/operator shall install a fuel meter on the natural gas supply lines to the duct burners associated with these sources.

(b) The owner/operator shall, on a monthly basis, monitor the amount of natural gas combusted in the duct burners in order to determine compliance with the limitations in this Operating Permit.

**# 015 [25 Pa. Code §127.411]****Content of applications.**

The following conditions apply to the operation of each selective catalytic reduction units (SCR):

(a) Equipment (a rotameter or equivalent, as approved by the Department) shall be provided so that the flow rate of reagent to the SCR system can be measured.

(b) The owner/operator shall continuously monitor the amount of reagent being injected.

**SECTION E. Source Group Restrictions.****# 016 [25 Pa. Code §127.411]****Content of applications.**

[Compliance with the requirements of this permit condition assures compliance with the regulations found in 40 CFR §§ 60.333 and 60.334(h).]

The owner/operator shall comply with the provisions of 40 CFR Part 75, Appendix D, relating to monitoring and estimating the emissions of sulfur dioxide (SO<sub>2</sub>). Specifically, as approved by the EPA Region III letter of April 10, 2002, these provisions are:

- (a) Use one of the options in Section 2.3.1.4(a)(2) or 2.3.1.4(a)(3) of 40 CFR Part 75 Appendix D to verify that the fuel burned in the combustion turbines can be classified as pipeline quality natural gas.
- (b) Installation, maintenance and continuous operation of a fuel flow meter which can give a metered flow of gaseous fuel or the amount of gas combusted during the hour.
- (c) A default SO<sub>2</sub> emission factor of 0.0006 lb/MMBtu per Section 2.3.1.1 of 40 CFR Part 75 Appendix D is approved in lieu of monitoring fuel sulfur content.

**# 017 [25 Pa. Code §127.411]****Content of applications.**

The owner/operator shall calculate the emissions

- (a) For NO<sub>x</sub>, VOCs, CO and PM<sub>10</sub> as an one-hour average to show compliance with short term emission limitations, and
- (b) For NO<sub>x</sub>, VOCs, CO and PM<sub>10</sub>, SO<sub>2</sub> and Sulfuric Acid Mist on a monthly and 12 month rolling basis to show compliance with the long term emission limitations. The long term emission calculations shall include the emissions from the start-ups, shutdowns and malfunctions.

**IV. RECORDKEEPING REQUIREMENTS.****# 018 [25 Pa. Code §127.411]****Content of applications.**

The permittee shall keep records of the following:

- (a) the natural gas usage of each duct burners monthly and twelve month rolling total
- (b) each start-up and shutdown of each combustion turbine and/or duct burners
- (c) emission calculations of each pollutant monthly and twelve month rolling totals.

**# 019 [25 Pa. Code §127.411]****Content of applications.**

The owner/operator shall keep all records that are required under 40 CFR Part 60, Subparts Db and GG; and 40 CFR Parts 72 through 78.

**# 020 [25 Pa. Code §129.100]****Compliance demonstration and recordkeeping requirements.**

The facility shall demonstrate compliance with the RACT II limits using a 30-day rolling average. The 30-day period shall conform with the data standards of the most recent edition of the Department's Continuous Source Testing Manual and 25 Pa Code 129.100(a)(1).

**# 021 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.49b]  
Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units  
Reporting and recordkeeping requirements.**

In accordance with 40 CFR 60.49b(g), the owner or operator of an affected facility subject to the NO<sub>x</sub> standards under

**SECTION E. Source Group Restrictions.**

§60.44b shall maintain records of the following information for each steam generating unit operating day:

- (1) Calendar date;
- (2) The average hourly NOx emission rates (expressed as NO<sub>2</sub>) (ng/J or lb/MMBtu heat input) measured or predicted;
- (3) The 30-day average NOx emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;
- (4) Identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;
- (5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
- (6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
- (7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;
- (8) Identification of the times when the pollutant concentration exceeded full span of the CEMS;
- (9) Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and
- (10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of this part.

**V. REPORTING REQUIREMENTS.****# 022 [25 Pa. Code §127.411]****Content of applications.**

[Additional authority for this permit condition is derived from 40 CFR §60.334(j)(5) and 25 Pa. Code §§139.101(1)(iv).]

The permittee shall submit quarterly reports of continuous emission monitoring in parts per million of CO, and NO<sub>x</sub>, each calculated at 15% O<sub>2</sub> on a 1-hour rolling average, to the Department in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources).

The permittee shall report emissions for all periods of unit operation, including startup, shutdown, and malfunction.

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

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

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

**# 023 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]****Subpart A - General Provisions****Address.**

The regulation under 40 CFR § 60.4 requires submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be submitted electronically to EPA's Central Data Exchange: <https://cdx.epa.gov/>. If the Central Data Exchange is unavailable, EPA copies shall be sent to:



**SECTION E. Source Group Restrictions.**

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

(a) The combustion turbine is subject to Subpart GG of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart and Condition.

(b) The duct burner is subject to Subpart Db of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart and Condition.

**VI. WORK PRACTICE REQUIREMENTS.****# 024 [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 the unit for the period from May 1 through September 30, and the allowable emissions for the same period.

(b) The permittee shall calculate allowable emissions by multiplying the unit's cumulative heat input for the period by 0.17. 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<sub>x</sub> per million Btu heat input 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)

**# 025 [25 Pa. Code §129.204]****Emission accountability.**

(a) If the affected source(s) has NO<sub>x</sub> 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 NO<sub>x</sub> emissions with a CEMS, one of the following shall be used to determine actual emissions of NO<sub>x</sub>:

(1) The 1-year average emission rate calculated from the most recent permit emission limit compliance demonstration test data for NO<sub>x</sub>.

(2) The maximum hourly allowable NO<sub>x</sub> 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 NO<sub>x</sub> 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

**SECTION E. Source Group Restrictions.**

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.

**# 026 [25 Pa. Code §129.204]****Emission accountability.**

(a) The permittee shall surrender to the Department one NO<sub>x</sub> allowance and one NO<sub>x</sub> Ozone Season allowance, as defined in the most current version of 40 CFR 97, for each ton of NO<sub>x</sub> 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 of each year, the permittee shall surrender the required NO<sub>x</sub> allowances to the Department's designated NO<sub>x</sub> allowance tracking system account and provide to the Department, in writing, the following:

- (1) The serial number of each NO<sub>x</sub> allowance surrendered.
- (2) The calculations used to determine the quantity of NO<sub>x</sub> allowances required to be surrendered.

(d) If the permittee fails to comply with subsection (c), the permittee shall by December 31 surrender three NO<sub>x</sub> allowances of the current or later year vintage for each NO<sub>x</sub> allowance that was required to be surrendered by November 1 of that year.

(e) The surrender of NO<sub>x</sub> 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 NO<sub>x</sub> Annual Trading Program), replaced the provisions of 40 CFR Part 96, Subpart AA (relating to CAIR NO<sub>x</sub> 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 NO<sub>x</sub> Ozone Season Group 2 Trading Program), to replace the previously-established CAIR NO<sub>x</sub> Ozone Season Trading Program and CSAPR NO<sub>x</sub> 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 NO<sub>x</sub> Ozone Season Group 3 Trading Program), for Pennsylvania and 11 other states. Of the 22 states previously regulated by 40 CFR Part 97, Subpart EEEEE, the remaining 10 CSAPR States will remain regulated by 40 CFR Part 97, Subpart EEEEE (relating to CSAPR NO<sub>x</sub> Ozone Season Group 2 Trading Program). DEP, for the purposes of compliance in 25 Pa. Code § 129.204, will accept the surrender of CSAPR NO<sub>x</sub> Ozone Season Group 2 or Group 3 allowances of current year vintage for NO<sub>x</sub> emissions in excess of the standards in 25 Pa. Code §§ 129.201 -129.203. Instead of the CAIR NO<sub>x</sub> allowances and CAIR NO<sub>x</sub> Ozone Season allowances indicated in 25 Pa. Code § 129.204(c), as the latter are no longer available, the Department will continue to accept federal annual and ozone season trading program NO<sub>x</sub> allowances for compliance purposes from any federally approved NO<sub>x</sub> allowance trading program that is designed to supersede or that has sequentially replaced CAIR Annual and OS Season allowances, unless expressly prohibited by EPA.]

**SECTION E. Source Group Restrictions.****VII. ADDITIONAL REQUIREMENTS.****# 027 [25 Pa. Code §127.411]****Content of applications.**

Each of these two (2) sources consist of a General Electric, Frame 7FA combustion turbine paired with supplementary fired heat recovery generators (duct burners).

- (a) Each combustion turbine has a rated heat input capacity of 2,000 MMBtu/hr at 0 degrees F.
- (b) Each duct burner has a rated heat input capacity of 245 MMBtu/hr at 0 degrees F.
- (c) The NOx emissions from each paired combustion turbine and duct burner are controlled by the use of dry low NOx combustor technology and a selective catalytic reduction (SCR) unit.
- (d) The duct burners are subject to Subpart Db of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart

**# 028 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

In addition to the Federal requirements under 40 CFR Part 97 of this Operating Permit, all units that meet the applicability requirements in latest edition 25 Pa. Code § 145.203 shall meet any applicable requirements of the latest version of 25 Pa Code §§ 145.204, 145.205, 145.212, 145.213, 145.221, 145.222, and 145.223.

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

These sources are subject to the latest versions of the SO2 and NOx Ozone Season Trading Programs found in 40 CFR § 97. The permittee shall comply with the current and any future requirements of the subsection.

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

The permittee shall comply with all requirements for greenhouse gas monitoring, recording and reporting from the most recent version of 40 CFR § 98 as it applies to facility sources.

**# 031 [40 CFR Part 97 NOx Budget Trading Program and CAIR NOx and SO2 Trading Programs §40 CFR 97.206]****Subpart AAA - CAIR SO2 Trading Program General Provisions****Standard requirements.**

- (a) Permit requirements.
  - (1) The CAIR designated representative of each CAIR SO2 source required to have a Title V Operating Permit and each CAIR SO2 unit required to have a Title V Operating Permit at the source shall:
    - (i) Submit to the permitting authority a complete CAIR permit application under § 97.222 in accordance with the deadlines specified in § 97.221; and
    - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.
  - (2) The owners and operators of each CAIR SO2 source required to have a Title V Operating Permit and each CAIR SO2 unit required to have a Title V Operating Permit at the source shall have a CAIR permit issued by the permitting authority under subpart CCC of this part for the source and operate the source and the unit in compliance with such CAIR permit.
  - (3) Except as provided in subpart III of this part, the owners and operators of a CAIR SO2 source that is not otherwise required to have a Title V operating permit and each CAIR SO2 unit that is not otherwise required to have a Title V operating permit are not required to submit a CAIR permit application, and to have a CAIR permit, under subpart CCC of this part for such CAIR SO2 source and such CAIR SO2 unit.
- (b) Monitoring, reporting, and recordkeeping requirements.
  - (1) The owners and operators, and the CAIR designated representative, of each CAIR SO2 source and each CAIR SO2

**SECTION E. Source Group Restrictions.**

unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of subpart HHH of 40 CFR Part 97.

(2) The emissions measurements recorded and reported in accordance with subpart HHH of 40 CFR Part 97 shall be used to determine compliance by each CAIR SO<sub>2</sub> source with the CAIR SO<sub>2</sub> emissions limitation under paragraph (c) of this section.

(c) Sulfur dioxide emission requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO<sub>2</sub> allowances available for compliance deductions for the control period, as determined in accordance with § 97.254(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO<sub>2</sub> units at the source, as determined in accordance with subpart HHH of 40 CFR Part 97.

(2) A CAIR SO<sub>2</sub> unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of January 1, 2010 or the deadline for meeting the unit(s) monitor certification requirements under § 97.270(b)(1), (2), or (5) and for each control period thereafter.

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

(4) CAIR SO<sub>2</sub> allowances shall be held in, deducted from, or transferred into or among CAIR SO<sub>2</sub> Allowance Tracking System accounts in accordance with subparts FFF, GGG, and III of 40 CFR Part 97.

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

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

(7) Upon recordation by the Administrator under subpart FFF, GGG, or III of 40 CFR Part 97, every allocation, transfer, or deduction of a CAIR SO<sub>2</sub> allowance to or from a CAIR SO<sub>2</sub> source's compliance account is incorporated automatically in any CAIR permit of the source.

(d) Excess emissions requirements.

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

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

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

(e) Recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the Administrator.

(i) The certificate of representation under § 97.213 for the CAIR designated representative for the source and each CAIR SO<sub>2</sub> unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year

**SECTION E. Source Group Restrictions.**

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

(ii) All emissions monitoring information, in accordance with subpart HHH of 40 CFR Part 97, provided that to the extent that subpart HHH provides for a 3-year period for recordkeeping, the 3-year period shall apply.

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

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

(2) The CAIR designated representative of a CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall submit the reports required under the CAIR SO<sub>2</sub> Trading Program, including those under subpart HHH of 40 CFR Part 97.

(f) Liability.

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

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

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

(g) Effect on other authorities.

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

[Note: On August 8, 2011, EPA promulgated the Cross-State Air Pollution Rule (CSAPR) to replace CAIR. The CSAPR provisions of 40 CFR Part 97, Subpart CCCCC (relating to CSAPR SO<sub>x</sub> Group 1 Trading Program), replaced the provisions of 40 CFR Part 96, Subpart AAA (relating to CAIR SO<sub>x</sub> Annual Trading Program General Provisions), and remain in effect. On October 26, 2016, EPA promulgated the CSAPR Update to revise the provisions of 40 CFR Part 97, Subpart CCCCC (relating to CSAPR SO<sub>x</sub> Annual Group 1 Trading Program). DEP, for the purposes of compliance in 25 Pa. Code § 145 will accept the surrender of CAIR SO<sub>x</sub> Annual allowances of current year vintage for SO<sub>x</sub> emissions. Instead of the CAIR SO<sub>x</sub> allowances, that are no longer available, the Department will continue to accept federal annual trading program SO<sub>x</sub> allowances for compliance purposes from any federally approved SO<sub>x</sub> allowance trading program that is designed to supersede or that has sequentially replaced CAIR Annual allowances, unless expressly prohibited by EPA.]

\*\*\* **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		
007	COOLING TOWER		
<b>Emission Limit</b>			
5.900	Tons/Yr	12-month rolling basis	TSP
031	COMBUSTION TURBINE 1 WITH DUCT BURNER		
<b>Emission Limit</b>			
9.000	PPMV	@15% O2 Turbine Only	CO
20.000	PPMV	@15% O2 Turbine w/ Duct Burner	CO
253.700	Tons/Yr	Per Turbine	CO
3.500	PPMV	@15% O2 Turbine Only	NOX
5.000	PPMV	@15% O2 Turbine w/ Duct Burner	NOX
113.400	Tons/Yr	Per Turbine	NOX
119.000	Tons/Yr	Per Turbine	SOX
14.600	Tons/Yr	Per Turbine	Sulfuric Acid
22.600	Lbs/Hr	@15% O2 Turbine Only	TSP
28.100	Lbs/Hr	@15% O2 Turbine w/ Duct Burner	TSP
109.000	Tons/Yr	Per Turbine	TSP
1.400	PPMV	@15% O2 Turbine Only	VOC
4.700	PPMV	@15% O2 Turbine w/ Duct Burner	VOC
25.100	Tons/Yr	Per Turbine	VOC
032	COMBUSTION TURBINE 2 WITH DUCT BURNER		
<b>Emission Limit</b>			
9.000	PPMV	@15% O2 Turbine Only	CO
20.000	PPMV	@15% O2 Turbine w/ Duct Burner	CO
253.700	Tons/Yr	Per Turbine	CO
3.500	PPMV	@15% O2 Turbine Only	NOX
5.000	PPMV	@15% O2 Turbine w/ Duct Burner	NOX
113.400	Tons/Yr	Per Turbine	NOX
119.000	Tons/Yr	Per Turbine	SOX
14.600	Tons/Yr	Per Turbine	Sulfuric Acid
22.600	Lbs/Hr	@15% O2 Turbine Only	TSP
28.100	Lbs/Hr	@15% O2 Turbine w/ Duct Burner	TSP
109.000	Tons/Yr	Per Turbine	TSP
1.400	PPMV	@15% O2 Turbine Only	VOC
4.700	PPMV	@15% O2 Turbine w/ Duct Burner	VOC
25.100	Tons/Yr	Per Turbine	VOC

**Site Emission Restriction Summary**

Emission Limit			Pollutant
226.800	Tons/Yr	12-month rolling basis	NOX
50.200	Tons/Yr	reported as methane, 12-month rolling basis	VOC
507.400	Tons/Yr	12-month rolling basis	CO
238.000	Tons/Yr	12-month rolling basis	SO2

**SECTION G. Emission Restriction Summary.**

223.900 Tons/Yr	PM/PM10, 12-month rolling basis	TSP
29.200 Tons/Yr	sulfuric acid mist, 12-month rolling sum	Sulfuric Acid



**SECTION H. Miscellaneous.**

The following sources have been determined by the Department to be insignificant sources of air emissions, and therefore do not require additional limitations, monitoring, or recordkeeping. They are still subject to any applicable Federal, State, and Local regulations including the Site Level Requirements (Section C) of this permit and the emission inventory reporting requirements (25 Pa. Code Chapter 135).

Two natural gas-fired space heaters each rated at 0.1 MMBtu/hr  
 On-site laboratory for analyzing boiler water  
 Aqueous ammonia storage tank less than 40 CFR 68 112r 20,000 pound threshold  
 Sulfuric acid storage tank for boiler water treatment operation, less than 5000 gallons  
 Sodium hypochlorite storage tank for boiler water treatment operation, less than 5000 gallons  
 Degreaser, Model Safety Kleen AQ-1, 20 gallon reservoir with less than 5% VOC content solvent.

1. APS # 584907 AUTH # 634836: This Operating Permit incorporates the requirements of Plan Approval PA-23-0082, which serves as the basis for certain terms and conditions set forth in this Permit.
2. APS # 584907 AUTH # 860773: This administrative amendment to the Operating Permit, 23-00082, corrects the Federal Tax ID.
3. APS # 584907 AUTH # 1072849: January, 2016 The Operating Permit is renewed.

(a) The following changes were made. Condition numbers refer to the December 23, 2010 issuance:

(i) Cover Page:

Responsible Official was updated to John Kolarick.  
 Permit contact was updated to Daniel Duff

(ii) Section C:

The following conditions were updated to reflect current DEP guidelines:

Condition #002

Condition #003

Condition #008

Condition #011

Condition #021

Condition #011: Approval by DEP on September 18, 2014 of once-a week monitoring for malodors, fugitive and visible emissions was noted.

Condition #023: The condition requiring DEP approval of recordkeeping formats was removed as the formats have been approved.

(iii) Section D

Source IDs 031, 032:

Conditions #001, #002: Particulate matter emissions are expressed as the total of filterable and condensable particulate matter, based on review of the original Plan Approval application PA 23-0082.

Condition #008 (a): The phrase indicating that reports be submitted 6 months prior to permit expiration was removed. Report submission is as required by paragraph (f) of the condition.

Condition #008(b): NO<sub>x</sub> and CO testing was removed from the once-in 5-year testing, unless requested by DEP. Per current DEP guidelines, a condition was added allowing an extension of any of the deadlines related to stack testing upon request of the permittee and approval by DEP.

Additional Testing Conditions



## SECTION H. Miscellaneous.

Two conditions from 25 Pa. Code Section 139.53, specifying the requirements for test report summaries and for submission through PSIMS when it becomes available were included.

Condition #018: Reporting to EPA through an electronic reporting interface if and when it becomes available for the regulations which apply to the facility was noted.

### Additional Requirements

CSAPR requirements of 40 CFR Part 97 Subparts AAAAA, BBBBB, CCCCC were included.

#### (iv) Section F

Particulate matter emissions are expressed as the total of filterable and condensable particulate matter, based on review of the original Plan Approval application PA 23-0082.

#### (v) Section G

The word "primarily" was added to the description of the laboratory insignificant source.

The sulfur acid and sodium hypochlorite tanks were correctly identified as belonging to cooling tower water treatment operation rather than boiling water treatment operation.

A degreaser, using less than 5% VOC content solution, was added to the list of insignificant sources.

4. APS # 584907 AUTH # 1315568: renewal of TVOP with updates to conditions for CSAPR. Addition of malfunction as defined in Section C, Condition #022 as a period of operation during which the turbines are exempt from the short term emissions limits. Presumptive RACT II limits added to permit.



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

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