



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

**TITLE V/STATE OPERATING PERMIT**

Issue Date: December 16, 2021      Effective Date: December 31, 2025  
Revision Date: December 31, 2025      Expiration Date: December 15, 2026  
Revision Type: Modification, Significant

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

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

**TITLE V Permit No: 46-00038**

Federal Tax Id - Plant Code: 23-3064219-21

**Owner Information**

Name: CONSTELLATION ENERGY GENERATION LLC  
Mailing Address: 3146 SANATOGA RD  
POTTSTOWN, PA 19464-3418

**Plant Information**

Plant: CONSTELLATION ENER GENERATION CO/LIMERICK GENERATING STATION  
Location: 46      Montgomery County      46932      Limerick Township  
SIC Code: 4911 Trans. & Utilities - Electric Services

**Responsible Official**

Name: WILLIAM LEVIS  
Title: PLANT MANAGER  
Phone: (610) 718 - 2000      Email: William.levis@constellation.com

**Permit Contact Person**

Name: BOB FRITZ  
Title: SR ENV SPECIALIST  
Phone: (610) 718 - 3405      Email: george.fritz@constellation.com

[Signature] \_\_\_\_\_  
JILLIAN A. GALLAGHER, 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 Compliance Certification
- #025 Recordkeeping Requirements
- #026 Reporting Requirements
- #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

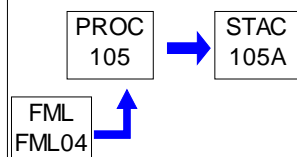
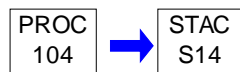
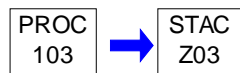
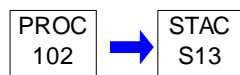
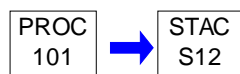
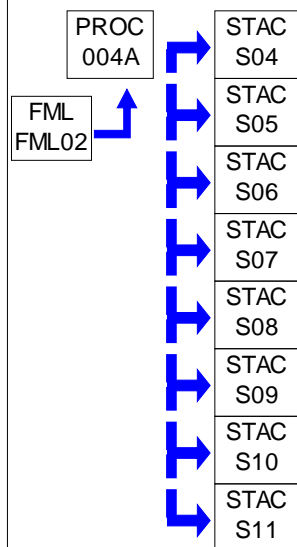
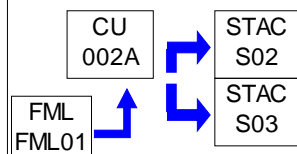
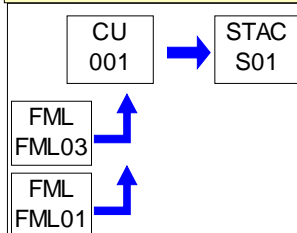
**SECTION A. Site Inventory List**

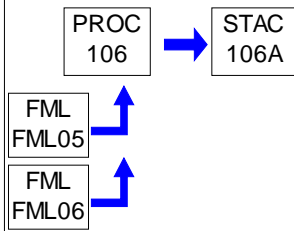
Source ID	Source Name	Capacity/Throughput	Fuel/Material
001	BOILER A: 0AS502	57.100 MMBTU/HR	
		419.000 Gal/HR	#2 Oil
002A	TWO BOILERS (BOILER B & BOILER C)	57.100 MMBTU/HR	
		N/A	#2 Oil
004A	EMERGENCY GENERATORS (8)	220.000 Gal/HR	#2 Oil
101	COOLING TOWER 1	119.000 Th Tons/HR	RIVER WATER
102	COOLING TOWER 2	119.000 Th Tons/HR	RIVER WATER
103	EMERGENCY SPRAY POND	182.000 Gal/HR	WATER
104	VOLTZ DEGREASING UNIT	N/A	CLEANING SOLVENT
105	MISC 2 EMERGENCY ENGINES		
106	EMERGENCY ENGINES NSPS - 6 TOTAL		
FML01	AUX. BOILER TANK - NO.2 FUEL OIL		
FML02	8-DIESEL OIL TANKS & 8 DAY TANKS		
FML03	VARIOUS WASTE OIL SOURCES (WDLF)		
FML04	MISC DIESEL FUEL TANKS (2)		
FML05	EMERGENCY WATER PUMP DIESEL TANKS (3)		
FML06	MISC DIESEL FUEL TANKS (3)		
105A	MISC STACK (2)		
106A	EMERGENCY WATER PUMP STACKS (3)		
S01	BOILER A STACK		
S02	BOILER B STACK		
S03	BOILER C STACK		
S04	EMER GEN D24 STACK		
S05	EMER GEN D23 STACK		
S06	EMER GEN D22 STACK		
S07	EMER GEN D21 STACK		
S08	EMER GEN D11 STACK		
S09	EMER GEN D12 STACK		
S10	EMER GEN D13 STACK		
S11	EMER GEN D14 STACK		
S12	COOLING TOWER 1		
S13	COOLING TOWER 2		
S14	DEGREASING UNIT EMISSIONS		
Z03	EMER SPRAY POND		

**PERMIT MAPS**



## PERMIT MAPS



**PERMIT MAPS**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit

**SECTION B. General Title V Requirements**

responsibility, coverage and liability between the current and the new permittee; and,

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

(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.



**SECTION B. General Title V Requirements****#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.

**#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.

**SECTION B. General Title V Requirements****#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].

**#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.

**SECTION B. General Title V Requirements****#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.
- (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

**SECTION B. General Title V Requirements**

oxides of sulfur at the facility during the term of the permit.

(4) Six-tenths of a ton of PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

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

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

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

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

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

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

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

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

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

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this

**SECTION B. General Title V Requirements**

permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**#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:

**SECTION B. General Title V Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
- (2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
- (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.
- (c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.
- (d) If the Title V facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:
  - (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
  - (2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.
- (e) If the Title V facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.
- (f) When the Title V facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:
  - (1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.
  - (2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under 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.



**SECTION B. General Title V Requirements**

(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) sources and classes of sources other than those identified in (a)-(f), 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 25 Pa. Code § 123.1(a)(1)-(9) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

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

The permittee 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 or entity on whose land the source(s) is being operated.

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

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

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

**# 006 [25 Pa. Code §123.42]****Exceptions**

The limitations of Condition #005, of this Section, shall not apply to a visible emission in either of the following instances:

- (a) when the presence of uncombined water is the only reason for failure to meet the limitations; or
- (b) when the emission results from the sources specified in Condition #002, of this Section.

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

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

- (a) The nitrogen oxide (NOx) emissions from this facility shall not exceed 99.9 tons per year on a 12-month rolling period.

**SECTION C. Site Level Requirements**

(b) The volatile organic compounds (VOC) emissions from this facility shall not exceed 49.9 tons per year on a 12-month rolling period.

(c) Exceedences of sub-conditions (a) and/or (b) of this permit condition will result in the facility being subjected to 25 Pa. Code §§129.96-129.100.

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

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

- (1) a fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer;
- (2) any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department;
- (3) a fire set for the prevention and control of disease or pests, when approved by the Department;
- (4) a fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation;
- (5) a fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure;
- (6) a fire set solely for recreational or ceremonial purposes; or
- (7) a fire set solely for cooking food.

**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 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 and the most current version of the DEP Source Testing Manual, 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);

**SECTION C. Site Level Requirements**

- (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 for the next six month period.
- (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, complaints, monitoring results, and/or Department findings.

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

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

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.

**# 013 [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.

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

The permittee shall maintain records and calculations needed to demonstrate compliance with the NO<sub>x</sub> and VOC limits for the facility.

**SECTION C. Site Level Requirements****V. REPORTING REQUIREMENTS.****# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department at 484-250-5920. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

(b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.

(c) The report shall describe the following:

- (1) Name, permit or authorization number, and location of the facility;
- (2) Nature and cause of the malfunction, emergency or incident;
- (3) Date and time when the malfunction, emergency or incident was first observed;
- (4) Expected duration of excess emissions;
- (5) Estimated rate of emissions; and
- (6) Corrective actions or preventative measures taken.

(d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.

(e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.

(f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.

(g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

**# 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(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 #026 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

**SECTION C. Site Level Requirements**

(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).

**VI. WORK PRACTICE REQUIREMENTS.****# 017 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified in Condition #002 of this section, 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.

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

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

The permittee shall ensure that the sources listed in Section A and Section H of this permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturer's specifications, in order to control and minimize malodor, fugitive particulate and visible emissions.

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

The permittee may not modify any air contaminant system identified in Sections A or G, of this permit, prior to obtaining Department approval, except those modifications authorized by Condition #017(g), of Section B, of this permit.

**VII. ADDITIONAL REQUIREMENTS.**

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

**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 \*\*\***

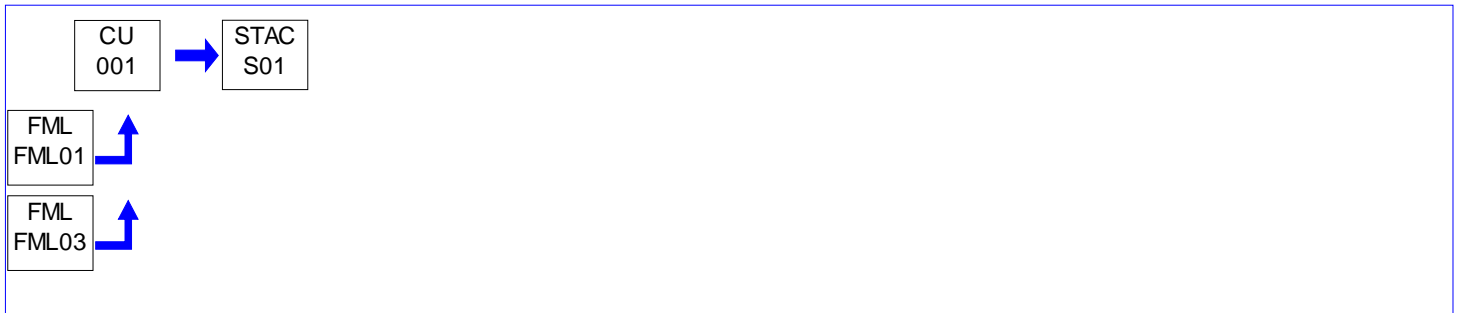
**SECTION D. Source Level Requirements**

Source ID: 001

Source Name: BOILER A: 0AS502

Source Capacity/Throughput: 57.100 MMBTU/HR  
419.000 Gal/HR #2 Oil

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

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

The permittee may not permit the emissions into the outdoor atmosphere of particulate matter from this auxiliary boiler in excess of 0.37 lb/MMBtu and/or 21.13 lb/hr, the rate is determined by the following equation of 25 Pa. Code Section 123.11(a)(2):

$$A = 3.6E^{(-0.56)}$$

where

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

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

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

(a). The permittee may, in auxiliary boiler "A", fire a mixture of virgin No. 2 fuel oil and waste derived liquid fuel (WDLF) as specified in paragraph (b) below in a manner such that the mixture is in compliance with the limitations specified in paragraph (c) below. The maximum amount of WDLF to be burned in the boiler shall not exceed 10,000 gallons over 12-consecutive months with a maximum in any single month of 3,000 gallons.

(b). The WDLF, prior to being mixed with virgin No. 2 fuel oil, shall meet the following contaminant limits:

Constituent	Acceptable Limit	Analytical Technique*
Arsenic	<10 ppm	Atomic Absorption
Cadmium	<10 ppm	Atomic Absorption
Chromium	<20 ppm	Atomic Absorption
Lead	<300 ppm	Atomic Absorption
PCB	<49 ppm	H2SO4 Extraction/G with Electron Capture
Total Halogens	<1000 ppm	Approved EPA Method
Flash Point	>140 degrees F	ASTM D-93-80

\*Atomic Absorption or Inductively Coupled Plasma Spectrophotometry (ICPS) or other EPA approved method that shall be

**SECTION D. Source Level Requirements**

used for analysis of Arsenic, Cadmium, Chromium, and Lead.

(c). The WDLF and virgin No. 2 fuel oil mixture shall not exceed the following limitations:

Constituent	Limitation Level	Analytical Technique*
Arsenic	5 ppm	Atomic Absorption
Cadmium	2 ppm	Atomic Absorption
Chromium	10 ppm	Atomic Absorption
Lead	100 ppm	Atomic Absorption
PCBs	10 ppm	H2SO4 Extraction GC with electron capture
Total Halogens	1000 ppm	EPA approved method
Ash	2%	ASTM D-482
Sulfur	0.3%	X-Ray Diffraction

\*Atomic Absorption or Inductively Coupled Plasma Spectrophotometry (ICPS) or other EPA approved method that shall be used for analysis of Arsenic, Cadmium, Chromium, and Lead. X-Ray Fluorescence or other EPA approved method may be used for the analysis of percent sulfur.

(d). The WDLF may not contain detectable levels of pesticides and/or herbicides.

(e). The WDLF shall not be mixed with any diluting substances (including virgin No. 2 fuel oil) without first being screened for the constituents or properties listed in paragraph 2 of this condition and a copy of the analysis is available demonstrating that none of the levels are exceeded.

(f). The permittee shall fire WDLF in boiler "A" only when the boiler is in the "base-loaded" mode to assure the ratio of WDLF to primary fuel oil will be consistently maintained.

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

(a). The permittee shall take representative samples of every batch of WDLF prior to mixing with No. 2 fuel oil. These samples shall be analyzed for the following contaminants - Arsenic, Cadmium, Chromium, Lead, PCB, and Total Halogens.

(b). The permittee shall take representative samples of the fuel being supplied to the burner every month that WDLF are burned for seven (7) days (168 hours) or more. These samples shall be analyzed for the following contaminants - Arsenic, Cadmium, Chromium, Lead, PCB, Total Halogens, Ash and sulfur.

(c). To assure that the mixture of WDLF and No. 2 fuel oil results in the anticipated dilution, the sample of the as-burned mixture will be taken at a point downstream of mixing while boiler "A" is being fired on the mixture.

(d). The permittee shall take a representative sample of WDLF at least once per year and have it analyzed for the ash content (% ash). The permittee shall make every reasonable effort to ensure that the sample taken represents the majority of batches of WDLF being supplied to the boiler.

(e). The permittee shall make provisions for personnel of the Department to take samples of the WDLF and/or fuel mixture at any time.

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



**SECTION D. Source Level Requirements**

- (a). Prior to any batch of WDLF being burned, the permittee shall review the analytical results representative of the batch to confirm that the allowable limits for each contaminant are met.
- (b). The permittee shall follow the following procedures when burning WDLF:
- (1). A positive displacement metering injection pump with an adjustable feed stroke shall be maintained on the boiler so that a reading of the WDLF flow rate in gallons per hour can be obtained at any reasonable time using the curves shown in Lube Oil Injection Pump Output Curves.
  - (2). After the boiler is operated in the base load mode with a stable flame established, the No. 2 fuel oil rate shall be noted from the fuel oil flow controller, instrument FC-020-053A. With the flow rate established, the WDLF pump will be valved in and started with a zero feed stroke. Referencing attachment "A", the operator will increase the pump stroke until the desired Oil Mixing Ratio is established. Operation shall be administered in a manner that the Oil Mixing Ratio will not be increased beyond the 7.5% curve. That is, all settings will be made on or to the left of the 7.5% curve.

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

The permittee shall, maintain records of

- (a). all analyses performed on the WDLF before and after mixing,
- (b). the consumption of WDLF, in gallons (12 consecutive month rolling sum).

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

- (a). The permittee shall submit to the Department, an annual report that contains quarterly consumption data on WDLF fired in the auxillary boiler and copies of all analyses performed on the WDLF.
- (b). The annual report for the previous 12-consecutive months is due on or before March 15 of each year.
- (c). Exceedances of the limits, date(s) of the exceedance and the corrective action taken shall be reported within 30 days of their occurrence.

**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. \*\*\***

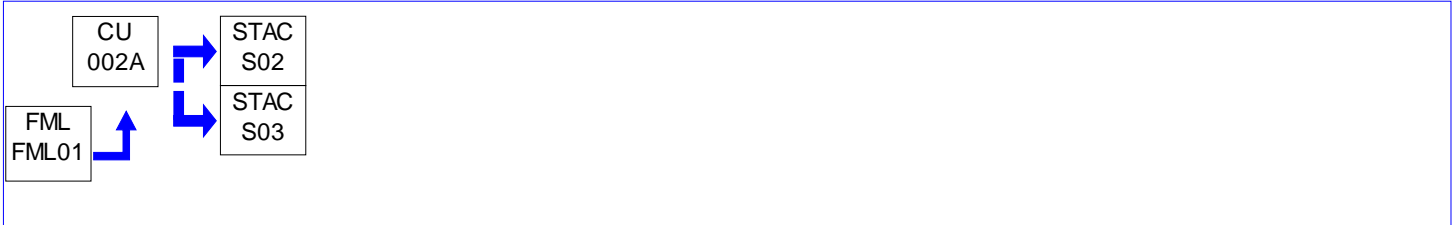
**SECTION D. Source Level Requirements**

Source ID: 002A

Source Name: TWO BOILERS (BOILER B &amp; BOILER C)

Source Capacity/Throughput: 57.100 MMBTU/HR  
N/A #2 Oil

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

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]  
Combustion units**

For each auxiliary boiler listed under this source (Boiler B and Boiler C), the permittee may not permit the emissions into the outdoor atmosphere of particulate matter in excess of 0.37 lb/MMBtu and/or 21.13 lb/hr, the rate is determined by the following equation of 25 Pa. Code Section 123.11(a)(2):

$$A = 3.6E^{(-0.56)}$$

where

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

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

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

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

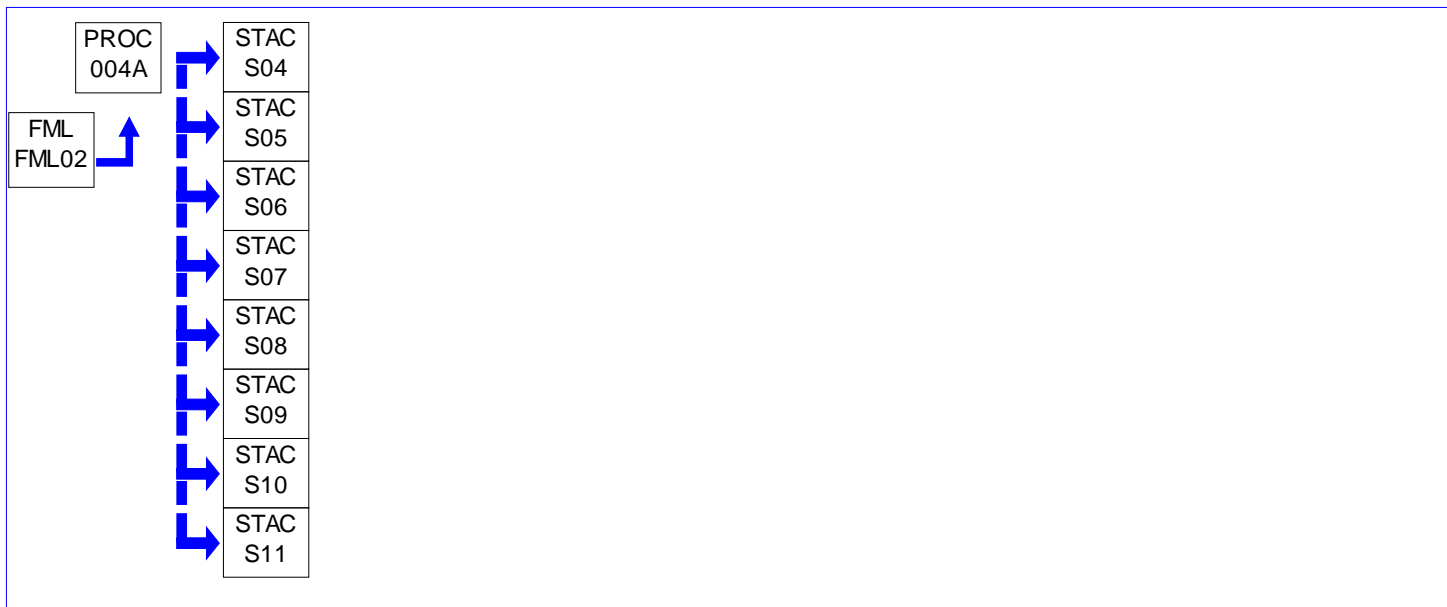
**SECTION D. Source Level Requirements**

Source ID: 004A

Source Name: EMERGENCY GENERATORS (8)

Source Capacity/Throughput: 220.000 Gal/HR #2 Oil

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

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

The permittee may not permit the emission into the outdoor atmosphere of particulate matter from any emergency generator in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot (5.71 Exp-06 lb/dscf).

**# 002 [25 Pa. Code §123.21]****General**

The permittee may not permit the emission into the outdoor atmosphere of sulfur oxides from the emergency generators in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91 - 129.95]

Capacity Factor Limitation for the Emergency Generators:

The permittee shall ensure that the 12-month rolling capacity factor for each of the emergency generators does not exceed 5 percent (5% for each generator). The capacity factor is defined below:

$$\text{Capacity factor} = \frac{\text{Last 12 months net power generation (MWH)}}{\text{Max. Capacity of unit (MW)}} \times 24 \text{ hr/day} \times \text{Days/last 12 mos.}$$

**SECTION D. Source Level Requirements****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The Nitrogen Oxides (NOx) emissions from each generator listed under this source shall not exceed the following amounts:

- (a). 6.0 tons per year on a consecutive 12-month period (calculated using 12 consecutive month rolling sum).

**Throughput Restriction(s).****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The hours of operation from each generator listed under this source shall not exceed 100 hours per year.

**II. TESTING REQUIREMENTS.****# 006 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

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

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

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

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

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91 - 129.95]

The permittee shall monitor the following operating parameters for each emergency generator:

- (a). Monthly and annual units (Megawatt-hours) generated from each of the generators.
- (b). Fuel usage on a monthly basis; rolled in consecutive 12-month sums.
- (c). Total operating hours on a monthly basis; rolled in consecutive 12-month sums.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91 - 129.95]

- (a). The permittee shall record the following information for each emergency generator:

- (1). Monthly and annual units (Megawatt-hours) generated from each of the generators;

**SECTION D. Source Level Requirements**

- (2). Fuel usage on a monthly basis; rolled in consecutive 12-month sums.
  - (3). Total operating hours on a monthly basis; rolled in consecutive 12-month sums.
- (b). The permittee shall maintain the following records relating to the fuel used in the emergency generators:
- (1). A certification for each shipment of No. 2 fuel oil stating that the fuel complies with ASTM D396-78 "Standard Specifications for Fuel Oil."
  - (2). A certification or test results for each shipment of fuel oil documenting the sulfur content (wt. percent).

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91 - 129.95 and 129.111 - 129.115 ]

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

**VII. ADDITIONAL REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source 004A consists of eight (8) emergency generators: FAIRBANKS-MORSE, Model 38TDS-18 - 3963 hp each

**# 011 [25 Pa. Code §129.203]****Stationary internal combustion engines.**

(a) The owner or operator of a stationary internal combustion engine rated at greater than 1,000 horsepower and located in Bucks, Chester, Delaware, Montgomery or Philadelphia County shall comply with this section and 25 Pa. Code § 129.204 (relating to emission accountability). This section does not apply to naval marine combustion units operated by the United States Navy for the purposes of testing and operational training or to stationary internal combustion engines regulated under Chapter 145, Subchapter B (relating to emissions of NOx from stationary internal combustion engines).

(b) By October 31, the owner or operator of the stationary internal combustion engine shall calculate the difference between the actual emissions from the unit during the period from May 1 through September 30 and the allowable emissions for that period.

(c) The owner or operator shall calculate allowable emissions by multiplying the cumulative hours of operations for the unit for the period by the horsepower rating of the unit and by the applicable emission rate set forth in paragraph (1) or (2).

(1) For a spark-ignited engine, 3.0 grams of NOx per brake horsepower-hour.

(2) For a compression ignition stationary internal combustion engine firing diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of NOx per brake horsepower-hour.

(d) Emissions from a stationary internal combustion engine that has been or is replaced by an electric motor may be counted as allowable emissions for purposes of this section and 25 Pa. Code § 129.204, as follows:

**SECTION D. Source Level Requirements**

(1) For a replaced spark-ignited engine, 3.0 grams of NO<sub>x</sub> per brake horsepower-hour of the replacement motor, less 1.5 pounds of NO<sub>x</sub> per MWH of electricity consumed by the replacement motor.

(2) For a replaced compression ignition stationary internal combustion engine that fired diesel fuel or a combination of diesel fuel and natural gas, 2.3 grams of NO<sub>x</sub> per brake horsepower-hour, less 1.5 pounds of NO<sub>x</sub> per MWH of electricity consumed by the replacement motor.

**# 012 [25 Pa. Code §129.204]****Emission accountability.**

(a) This condition applies to units described in 25 Pa. Code § 129.201-129.203 (relating to boilers; stationary combustion turbines; and stationary internal combustion engines).

(b) The owner or operator shall determine actual emissions in accordance with one of the following:

(1) If the owner or operator of the unit is required to monitor NO<sub>x</sub> emissions with a CEMS operated and maintained in accordance with a permit or State or Federal regulation, the CEMS data reported to the Department to comply with the monitoring and reporting requirements of this article shall be used. 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.

(2) If the owner or operator of the unit 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>:

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

(ii) The maximum hourly allowable NO<sub>x</sub> emission rate contained in the permit or the higher of the following:

(A) 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."

(B) 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.

(iii) CEMS data, if the owner or operator elects to monitor NO<sub>x</sub> emissions with a CEMS. The owner or operator 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.

(iv) An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The operator of the unit shall demonstrate that the alternate procedure does not underestimate actual emissions throughout the allowable range of operating conditions. The alternate calculation and recordkeeping procedures must be approved by the Department, in writing, prior to implementation.

(c) The owner or operator of a unit subject to this section shall surrender to the Department one NO<sub>x</sub> allowance, as defined in 25 Pa. Code § 145.2 (relating to definitions), 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 NO<sub>x</sub> 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.

(d) 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 owner or operator may deduct the difference or any portion of the difference from the amount of actual emissions from units subject to this section at the owner or operator's other facilities.

**SECTION D. Source Level Requirements**

(e) By November 1 of each year, an owner or operator of a unit subject to this section shall surrender the required NOx allowances to the Department's designated NOx allowance tracking system account and provide to the Department, in writing, the following:

(1) The serial number of each NOx allowance surrendered.

(2) The calculations used to determine the quantity of NOx allowances required to be surrendered.

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

(g) The surrender of NOx allowances under subsection (f) does not affect the liability of the owner or operator of the unit 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 owner or operator of the unit demonstrates that a lesser number of days should be considered.

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

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



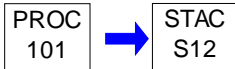
**SECTION D. Source Level Requirements**

Source ID: 101

Source Name: COOLING TOWER 1

Source Capacity/Throughput: 119.000 Th Tons/HR RIVER WATER

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

**I. RESTRICTIONS.**

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

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

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

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

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

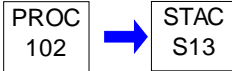
**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: COOLING TOWER 2

Source Capacity/Throughput: 119.000 Th Tons/HR RIVER WATER

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

**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).

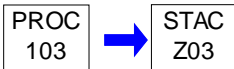
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: EMERGENCY SPRAY POND

Source Capacity/Throughput: 182.000 Gal/HR WATER

**I. RESTRICTIONS.**

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

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

[Additional authority for this permit condition is also derived from 25 PA Code Section 127.511]

Using a method approved by the Department via letter dated August 31, 2011, the permittee shall calculate and record the emissions of particulate matter from the Emergency Spray Pond.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

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

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

**SECTION D. Source Level Requirements**

Source ID: 104

Source Name: VOLTZ DEGREASING UNIT

Source Capacity/Throughput:

N/A

CLEANING SOLVENT

PROC  
104STAC  
S14**I. RESTRICTIONS.**

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.****# 001 [25 Pa. Code §129.63]****Degreasing operations**

(a). A person who sells or offers for sale any solvent containing VOCs for use in a cold cleaning machine shall provide, to the purchaser, the following written information:

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

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

**V. REPORTING REQUIREMENTS.**

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

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

The degreasing unit shall be closed when not actively used for washing.

**SECTION D. Source Level Requirements****# 003 [25 Pa. Code §129.63]****Degreasing operations**

The following requirements apply to cold cleaning machines that are used to remove grease dirt, or oil from metal parts. This condition applies to cold cleaning machines that use 2 gallons or more of solvents containing greater than 5% VOC content by weight for the cleaning of metal parts.

- (a). Each immersion cold cleaning machine shall have a freeboard ratio of 0.50 or greater.
- (b). Each immersion cold cleaning machine shall:
  - (1). Have a permanent, conspicuous label summarizing the operating requirements in paragraph (c). In addition, the label shall include the following discretionary good operating practices:
    - (A). Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.
    - (B). When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.
    - (C). Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.
  - (2). Be equipped with a cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent.
- (c). Cold cleaning machines shall be operated in accordance with the following procedures:
  - (1). Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.
  - (2). Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.
  - (3). Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in the cold cleaning machine.
  - (4). Air agitated solvent baths may not be used.
  - (5). Spills during solvent transfer and use of the cold cleaning machine shall be cleaned up immediately.
- (d). A person may not use, sell or offer for sale for use in a cold cleaning machine any solvent with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater and containing greater than 5% VOC by weight, measured at 20°C (68°F) containing VOCs.
- (e). Paragraph (d) [Paragraph (4) of 25 Pa. Code 129.63(a)] does not apply:
  - (1). To cold cleaning machines used in extreme cleaning service.
  - (2). If the owner or operator of the cold cleaning machine demonstrates, and the Department approves in writing, that compliance with paragraph (d) will result in unsafe operating conditions.
  - (3). To immersion cold cleaning machines with a freeboard ratio equal to or greater than 0.75.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 004 [25 Pa. Code §129.63]****Degreasing operations**

This subsection (25 Pa. Code 129.63(a)) applies to cold cleaning machines that use 2 gallons or more of solvents containing greater than 5% VOC content by weight for the cleaning of metal parts.

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

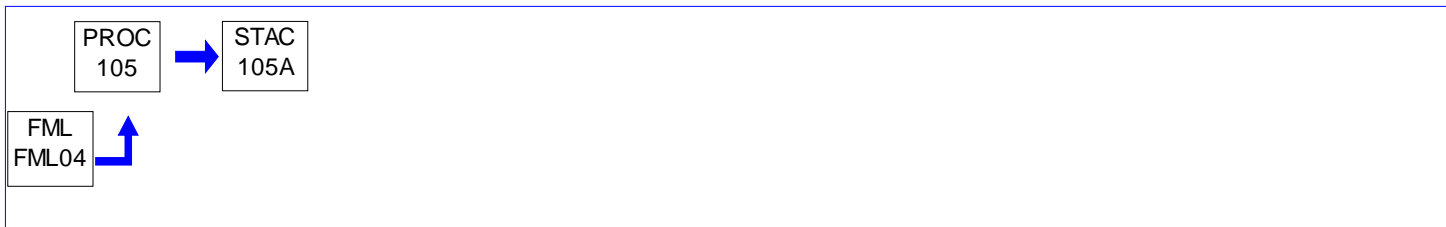
**SECTION D. Source Level Requirements**

Source ID: 105

Source Name: MISC 2 EMERGENCY ENGINES

Source Capacity/Throughput:

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

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

# 001 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall ensure that the emergency generators (Source IDs: 105 and 106) shall not exceed with the following NOx emission limit while operating:

- (1) 100 lbs/hr
- (2) 1,000 lbs/day
- (3) 2.75 tons per ozone season
- (4) 6.6 tons per year on a 12-month rolling basis

**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.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

**SECTION D. Source Level Requirements**

Source #105 includes the following engines:

1. Diesel Engine driven fire pump: Cummings Model No. NT-855-F1, HP 310
2. Back-up Diesel Engine driven fire pump: Detroit Diesel Model No PTA-1SD-50, HP 170

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

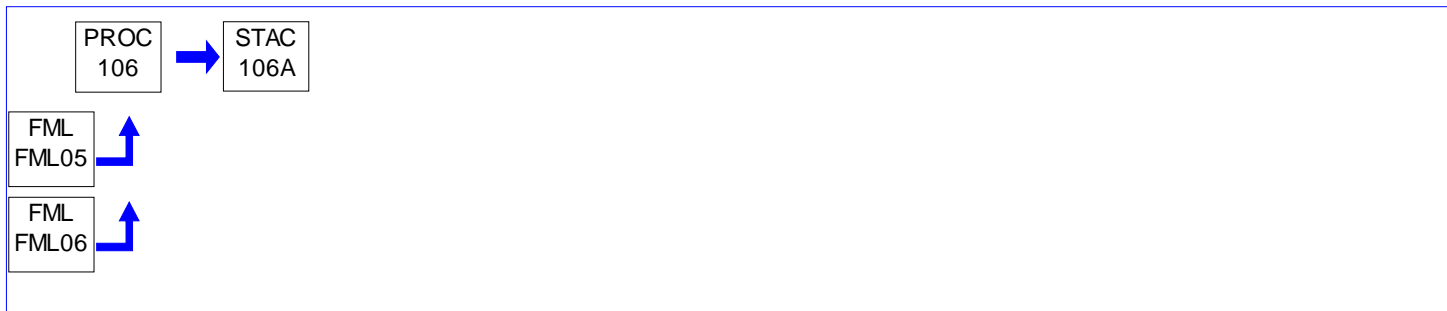


**SECTION D. Source Level Requirements**

Source ID: 106

Source Name: EMERGENCY ENGINES NSPS - 6 TOTAL

Source Capacity/Throughput:

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

No person may permit the emission into the outdoor atmosphere of particulate matter from any source in excess of 0.04 grains per dry standard cubic foot, pursuant to 25 Pa. Code § 123.13(c)(1)(i).

**# 002 [25 Pa. Code §123.21]****General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from any source group in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 ppmvd.

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

The permittee shall ensure that the emergency generators (Source IDs: 105 and 106) shall not exceed with the following NO<sub>x</sub> emission limit while operating:

- (1) 100 lbs/hr
- (2) 1,000 lbs/day
- (3) 2.75 tons per ozone season
- (4) 6.6 tons per year on a 12-month rolling basis

**# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?**

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

For Emergency Water Pumps #1, #2 and #3:

Emissions from these generators shall not exceed the following:

- (a) NMHC plus NO<sub>x</sub> – 4.0 grams/kW-hr;
- (b) CO – 3.5 grams/kW-hr; and
- (c) PM - 0.2 grams/kW-hr.

**SECTION D. Source Level Requirements****Fuel Restriction(s).**

**# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**  
**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**  
**What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee shall ensure that all diesel fuel meets the following per-gallon standards:

- (1) Sulfur content.
  - (i) 15 ppm maximum for NR diesel fuel.
- (2) Cetane index or aromatic content, as follows:
  - (i) A minimum cetane index of 40; or
  - (ii) A maximum aromatic content of 35 volume percent.

**Operation Hours Restriction(s).**

**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**  
**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**  
**What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

- (a). These emergency generators shall be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine.
- (b). Maintenance checks and readiness testing of such units is limited to 100 hours per year.
- (c). There is no time limit on the use of emergency situations. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year.
- (d). The permittee may operate these emergency generators up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and readiness-testing and emergency demand response.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

The permittee shall monitor the hours of operation for the emergency generators (Source ID: 106) on a monthly basis and as a 12-month rolling sum, when operating.

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

The permittee shall monitor the NO<sub>x</sub> emissions from the emergency generators (Source ID: 106), daily, monthly, and as a 12-month rolling sum, when operating.

**IV. RECORDKEEPING REQUIREMENTS.**

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

- (a) The permittee shall maintain records of the hours of operation for the emergency generators (Source ID: 106) on a monthly basis and as a 12-month rolling sum.

**SECTION D. Source Level Requirements**

(b) For each emergency generator, the permittee must specify the category of operation, such as "emergency", "nonemergency" and "maintenance and testing" and the amount of time the unit was used for each category or operation.

**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall calculate and maintain records of the NO<sub>x</sub> emissions from the emergency generators (Source ID: 106) on a monthly basis and as a 12-month rolling sum.

**V. REPORTING REQUIREMENTS.****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall include the total, combined annual NO<sub>x</sub> emission estimates from these emergency generators in the annual emission statement as pursuant 25 Pa. Code § 135.21.

**VI. WORK PRACTICE REQUIREMENTS.****# 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee shall ensure that the emergency water pumps are certified to meet the requirements of 40 CFR Parts 89 and 1089 as they apply.

**# 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee shall operate and maintain these emergency generators and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer.

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

Source #106 includes the following engines:

Emergency Water Pump- #1: Godwin, Model No. HL130M, HP 300 (FML 05)

Emergency Water Pump- #2: Godwin, Model No. HL130M, HP 300 (FML 05)

Emergency Water Pump- #3: Godwin, Model No. HL130M, HP 300 (FML 05)

Three (3) Cummings Engines, Model QSX15-G9, HP755 (FML 06)

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

**SECTION E. Source Group Restrictions.**

Group Name: GROUP 1

Group Description: Requirements for Cooling Towers

Sources included in this group

ID	Name
101	COOLING TOWER 1
102	COOLING TOWER 2

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

No person may permit the emission into the outdoor atmosphere of particulate matter from this source in excess of 0.02 gr/dscf, pursuant to 25 Pa. Code § 123.13 (c)(1)(iii).

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

Using a Department approved method, the permittee shall perform tests for Total Dissolved Solids (TDS) in parts per million by weight on 24-hour Composite Samples at the frequency specified in the most current NPDES permit from Outfall 001, the blowdown water stream from Cooling Towers 1 and 2.

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

The permittee shall monitor the average circulation flow rate through this cooling tower on a weekly basis when this source is in operation

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

(a). The permittee shall keep records of the following for this source on a weekly basis when this source is in operation:

- (1). The average circulation flow rate of cooling water through this source.
  - (2). The testing results of the 24-hour composite sample taken at the frequency specified in the most current NPDES permit for TDS content of the blowdown water in Outfall 001.
- (b). The permittee shall keep manufacturer's specifications for the design drift rate for this cooling tower on file. If the design drift rate is not available, the permittee may use the factors for drift rate determination in AP-42 (5th Edition, Volume 1, Chapter 13.4) to estimate the amount of water lost as drift from this cooling tower.
- (c). The permittee shall estimate and record the monthly and 12-month rolling sum emissions of particulate matter from this cooling tower to the atmosphere.

**V. REPORTING REQUIREMENTS.**

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

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

The permittee shall operate and maintain this source in accordance with manufacturer's specifications.

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

The permittee shall calculate the PM emissions from source 101 and 102 as follows:

Hourly PM Emissions per Cooling Tower = (Recirculation Flow Rate) X (Drift/100 lbs. water) x (TDS concentration)

Annual PM Emissions per Cooling Tower = (Hourly PM Emissions per Cooling Tower) x 8760 hours

PM Concentration = (Hourly PM Emissions per Cooling Tower)/(Cooling Tower dscf)

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

**SECTION E. Source Group Restrictions.**

Group Name: GROUP 2

Group Description: Boilers

Sources included in this group

ID	Name
001	BOILER A: 0AS502
002A	TWO BOILERS (BOILER B & BOILER C)

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.22]****Combustion units**

For each boiler listed under this source, no person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO<sub>2</sub>, from any combustion unit, in the Southeast Air Basin, in excess of 1.2 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.22(e)(1).

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91 - 129.95]

The Nitrogen Oxides (NO<sub>x</sub>) emissions from each boiler listed under this source shall not exceed the following amounts:

- (a). 0.15 pounds per million Btu of heat input (8.5 lb/hr).
- (b). 30 tons per year on a consecutive 12-month period (calculated using 12 consecutive month rolling sum).

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91 through 129.95 and 123.22(e)(2)]

The maximum sulfur content in commercial fuel oil shall not exceed 0.015% by weight (15 ppm), except as specified in subparagraphs (ii) and (iii) of 25 Pa. Code § 123.22(e)(2).

**II. TESTING REQUIREMENTS.****# 004 [25 Pa. Code §123.22]****Combustion units**

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

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

(b) Beginning July 1, 2016, a person other than the ultimate consumer that accepts a shipment of commercial fuel oil from a refinery or other transferor, shall sample, test, and calculate the actual sulfur content of the commercial fuel oil in accordance with (a), above, if the shipment lacks the records required by 25 Pa. Code § 123.22(g)(1).

**# 005 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

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

- (1) The fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample. Upon

**SECTION E. Source Group Restrictions.**

the request of a Department official, the person responsible for the operation of the source shall collect the sample employing the procedures and equipment specified in 25 Pa. Code § 139.4(10) (relating to references).

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

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

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

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

(a). The permittee shall monitor the amount and type of fuel burned on a daily basis for each boiler listed under this source.

(b). The permittee shall calculate the PM, SO<sub>x</sub> and NO<sub>x</sub> emissions for each boiler listed under this source on a monthly basis as well as on a twelve (12) month rolling sum.

**IV. RECORDKEEPING REQUIREMENTS.****# 007 [25 Pa. Code §123.22]****Combustion units**

The permittee shall receive with each fuel oil delivery an electronic or paper record which legibly and conspicuously contains the following information:

- (a) the date of the sale or transfer;
- (b) the name and address of the seller;
- (c) the name and address of the buyer;
- (d) the delivery address;
- (e) the volume of commercial fuel oil purchased; and
- (f) the identification of the sulfur content of the shipment of fuel oil, determined using the sampling and testing methods specified in the testing requirement above, expressed as one of the following statements:
  - (1) For a shipment of No. 2 and lighter commercial fuel oil, "The sulfur content of this shipment is 15 ppm or below."

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91 - 129.95 and 129.111 - 129.115]

(a). The permittee shall record each adjustment conducted during the annual adjustment or tune-up on the boiler in a permanently bound log book or electronic format. The log book shall contain, at a minimum, the following information:

- (1). The date of the tuning procedure.
- (2). The name of the service company and technicians.
- (3). The final operating rate or load.
- (4). The final CO and NO<sub>x</sub> emission rates.
- (5). The final excess oxygen rate.

(b). The permittee shall maintain the following records relating to the fuel oil fired in the boiler:

- (1). A certification for each shipment of No. 2 fuel oil stating that the fuel complies with ASTM D396-78 "Standard Specifications for Fuel Oils."
- (2). A certification from the fuel supplier for each shipment of fuel oil documenting the sulfur content (wt. percent).

**SECTION E. Source Group Restrictions.**

- (3). Monthly fuel usage (in gallons) rolled in consecutive 12-month sums.
- (4). All calculations for air pollutants shall be explicitly recorded.
- (c). All records described above shall be retained for at least five years and shall be made available to the Department upon request.

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

- (a). The permittee shall keep records of the amount and type of fuel burned on a daily basis for each boiler listed under this source.
- (b). The permittee shall keep records of PM, SO<sub>x</sub> and NO<sub>x</sub> emission calculations for each boiler listed under this source on a monthly as well as on a twelve (12) month rolling sum.

**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.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code 129.91 - 129.95 and 129.111 -129.115]

- (a). The permittee shall perform an annual tune-up on the combustion process for this source. The annual tune-up shall consist of, at a minimum, the following:

- (1). Inspection, adjustment, cleaning or replacement of fuel burning equipment, including the burners and moving parts necessary for proper operation as specified by the manufacturer.
- (2). Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of NO<sub>x</sub>, and to the extent practicable, minimize the emissions of CO.
- (3). Inspection of the air-to-fuel ratio control system and adjustments necessary to ensure proper calibration and operation as specified by the manufacturer.
- (b). The annual combustion tune-up shall be made in accordance with EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers," September 1983 (EPA-340/1-83-023) or equivalent procedures approved by the Department in writing.

Compliance with this condition will demonstrate compliance with 40 C.F.R. Part 63 § 63.11223(b)(1-3)].

**VII. ADDITIONAL REQUIREMENTS.**

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

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



**SECTION E. Source Group Restrictions.**

Group Name: GROUP 3

Group Description: 40CFR63 Subpart ZZZZ requirements

**Sources included in this group**

ID	Name
004A	EMERGENCY GENERATORS (8)
105	MISC 2 EMERGENCY ENGINES

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

(a) The permittee shall operate the emergency stationary R.I.C.E. according to the requirements in the most recent version of 40 C.F.R. Section 63.6640(f)

(b) If the permittee does not operate the engine according to the requirements of 40 C.F.R. Section 63.6640(f), the engine will not be considered an emergency engine under 40 C.F.R. Part 63 Subpart ZZZZ and must meet all requirements for non-emergency engines.

**II. TESTING REQUIREMENTS.**

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

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

The permittee shall monitor the following, when operating this source:

- (a) The monthly operating hours.
- (b) The type of fuel that is consumed by this source.
- (c) The amount of each fuel consumed each month using a Department approved method.
- (d) The reason for operating this emergency generator per each event (including, but not limited to, maintenance testing, readiness testing, and operation during power outage).

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

(a) The permittee shall keep records of the following, when operating this source:

- (1) The monthly operating hours.
- (2) The type of fuel that is consumed by this source.
- (3) The amount of each fuel consumed each month using a Department approved method..
- (4) The reason for operating this emergency generator per each event (including, but not limited to, maintenance testing, readiness testing, and operation during power outage).

(b) The permittee shall calculate and record the total emissions of each pollutant that is limited by the conditions of this permit on a monthly and 12-month rolling basis.

(c) The permittee shall calculate the total number of operating hours for this source on a monthly and a 12-month rolling basis.

(d) The records collected from paragraphs (a), (b), and (c) above shall be kept on file for a period of five (5) years, and the records shall be made available to the Department upon request.

**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).

**VI. WORK PRACTICE REQUIREMENTS.**

**# 004 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[additional authority is derived from 40 CFR §§63.6603 and 63.6640]

The permittee shall:

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

**VII. ADDITIONAL REQUIREMENTS.**

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

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

**SECTION E. Source Group Restrictions.**

Group Name: GROUP 4

Group Description: 40CFR63 Subpart JJJJJ requirements

Sources included in this group

ID	Name
001	BOILER A: 0AS502
002A	TWO BOILERS (BOILER B & BOILER C)

**I. RESTRICTIONS.**

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

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

[Additional authority for this permit condition is also derived from 40 C.F.R. Part 63 § 63.11225(c)]

The permittee shall keep records of the following:

- Copy of each notification and report that was submitted to comply with 40 C.F.R. Part 63 Subpart JJJJJ.
- The date of tune-up for each boiler, the procedures followed for the tune-up, and the manufacturer's specifications to which the boiler was tuned.

**V. REPORTING REQUIREMENTS.**

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

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

The permittee shall operate and maintain this source in a manner consistent with safety and good air pollution control practices for minimizing emissions and in accordance with the manufacturer's specifications.

[Compliance with this condition assures compliance with 40 C.F.R. 63 § 63.11205(a)]

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

[Additional authority for this permit condition is also derived from 40 C.F.R. Part 63 § 63.11223(b)(4-7)]

The tune-up shall also consist of the following:

- Optimize total emissions of Carbon Monoxide. This optimization should be consistent with the manufacturer's specifications.
- Measure the concentrations in the effluent stream of carbon monoxide in parts per million (ppm) by volume, and oxygen in volume percent, before and after the adjustments are made.
- Maintain onsite and submit, if requested by the Administrator, biennial report containing the following:
  - The concentrations of CO in the effluent stream in ppm by volume, and oxygen in volume percent, measured before and after the tune-up of each boiler.
  - A description of any corrective actions taken as part of the tune-up.
  - The type and amount of fuel used over the 12-months prior to the biennial tune-up.

**SECTION E. Source Group Restrictions.**

d. If the boiler is not operating on the required date for a tune-up, the tune-up shall be conducted within one week of startup.

**VII. ADDITIONAL REQUIREMENTS.**

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

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

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
001	BOILER A: 0AS502		
Emission Limit			Pollutant
0.150	Lbs/MMBTU	each boiler	NOX
8.500	Lbs/Hr	each boiler	NOX
30.000	Tons/Yr	12 month rolling sum for each boiler	NOX
1.200	Lbs/MMBTU		SOX
0.370	Lbs/MMBTU		TSP
21.130	Lbs/Hr		TSP
002A	TWO BOILERS (BOILER B & BOILER C)		
Emission Limit			Pollutant
0.150	Lbs/MMBTU	each boiler	NOX
8.500	Lbs/Hr	each boiler	NOX
30.000	Tons/Yr	12 month rolling sum for each boiler	NOX
1.200	Lbs/MMBTU		SOX
0.370	Lbs/MMBTU	each boiler	TSP
21.130	Lbs/Hr	each boiler	TSP
004A	EMERGENCY GENERATORS (8)		
Emission Limit			Pollutant
6.000	Tons/Yr	12 month rolling sum for each generator	NOX
101	COOLING TOWER 1		
Emission Limit			Pollutant
0.020	gr/DRY FT3		TSP
102	COOLING TOWER 2		
Emission Limit			Pollutant
0.020	gr/DRY FT3		TSP

**Site Emission Restriction Summary**

Emission Limit			Pollutant
99.900	Tons/Yr	on a 12-month rolling basis	NOX
49.900	Tons/Yr	on a 12-month rolling basis	VOC

**SECTION H. Miscellaneous.**

#001. The 12,000 gallon underground gasoline storage tank used for fueling station vehicles is subject to the following requirements as put forth in 25 Pa Code 129.61:

(a). A person may not transfer gasoline from a delivery vessel into a stationary gasoline storage tank unless the displaced vapors from the storage tank are transferred to the dispensing delivery tank through a vapor tight return line and unless the receiving tank is equipped with a submerged fill pipe which extends from the filling orifice to within 6 inches of the bottom of the tank. The vapors collected in the dispensing tank shall be disposed of in accordance with Section 129.59.

(b). The dispensing delivery tank shall remain vapor tight at all times.

#002. The 12,000-gallon gasoline tank is equipped with a Stage II Vapor Recovery System. The amount of gasoline dispensed from this gasoline tank is typically 2,000 to 3,000 gallons per month. The permittee shall keep records of the monthly throughput for this Stage II Vapor Recovery System. The permittee shall also keep records of all inspections and maintenance that is performed on this Stage II Vapor Recovery System, including the duration of any failures that are found in the system. The permittee shall also provide training for the proper use of equipment and keep records of the training on file.

#003. The following is a list of insignificant activities which by themselves, do not qualify as individual sources due to the low vapor pressure of the materials stored (less than 1.5 psi - maximum true vapor pressure); however, they are subject to any and all applicable regulations including but not limited to, conditions under "Site Level Requirements" of this Title V Permit. The permittee shall not store materials in these tanks that have maximum true vapor pressures greater than 1.5 psi.

- (a). (1)-200,000 gallon No. 2 Fuel Oil tank used for firing auxiliary boilers A,B and C.
  - (b). (8)-41,500 gallon diesel fuel tanks used for (8) emergency generators.
  - (c). (1)-12,000 gallon diesel tank used for refueling station vehicles.
  - (d). (10)- less than or equal to 850 gallon tanks used for emergency generators.
  - (e). (2)-2,500 gallon oily waste storage tanks.
  - (f). (5)-400 gallon oily waste interceptors.
  - (g). deleted
  - (h). (2)-16,000 gallon clean lube oil tanks.
  - (i). (2)-16,000 gallon dirty lube oil tanks.
  - (j). (2)-12,000 gallon main turbine reservoir.
  - (k). (8)-280 gallon tanks.
  - (l). (2)-35,000 gallon vaulted oil/water separators.
  - (m). deleted
  - (n). (2)-800 gallon oily material tanks.
  - (o). (2)-300 gallon ethylene glycol tanks.
  - (p). Lube Oil System (Vents and lube oil vapor extractors).
  - (q). Chemistry Lab.
  - (r). (2)-No. 2 fuel oil tanks for fire pumps (550 and 288 gallons respectively).
  - (s). (2)-16,000 gallon reclaimed lube oil tanks.
  - (t). Miscellaneous activities such as maintenance, portable pumps, and vehicle traffic.
  - (u). (2) 7,500 gallon oily waste storage tanks
  - (v). 110 bhp portable fire safe shutdown diesel generator plus fuel tank
- #004. No. 2 fuel oil is defined as the following:

- (a). No. 2 Diesel fuel oil in accordance with ASTM specification D 975.
- (b). No. 2 Fuel oil in accordance with ASTM specification D 396.
- (c). Either a or b above but classified as heating oil by the addition of red dye.

#005. This permit has been revised due to a name and address change that was accepted by the Department on March 6, 2001. PECO Energy Company/Limerick Generating Station was changed to Exelon Generation Company/Limerick Generating Station.

The revised insignificant activity list:

- (a). Fire Suppression System - 2 fire pumps and a fire water storage tank with the capacity of 500,000 gallons
- (b). A portable emergency generator that operates less than 10 hours per year. The emissions are negligible (NOx < 0.3 tons per year, other pollutants < 0.06 tons per year)
- (c). Air Conditioning: 12 chiller units
- (d). Plant maintenance and upkeep

**SECTION H. Miscellaneous.**

- (1). welding
- (2). oxy-acetylene metal cutter
- (3). two degreasers - solvent does not contain any VOCs
- (e). Sources that emit only inert gases:
  - (1). 12 Hydrogen gas cylinders
  - (2). chemistry lab argon tank (500 gallons)
  - (3). two Carbon dioxide generator purge tanks emit 10 tons of CO<sub>2</sub> each
  - (4). fire protection Carbon dioxide tank (3,160 gallons)
  - (5). inerting liquid (Nitrogen tanks (tanks U1 and U2)(5,880 gallons))
  - (6). chemistry lab liquid Nitrogen tank
- (f). Demineralized water storage tank (50,000 gallons)
- (g). Boiler water tank (400 gallons)
- (h). Two water neutralization tanks (15,000 gallons)
- (i). Storage tanks storing non-VOC or non-HAP material
  - (1). water storage tank (1,500,000 gallons)
  - (2). water holding pond (400,000 gallons)
  - (3). clarified water storage tank (200,000 gallons)
  - (4). two sodium hypochlorite cooling water bio control tanks (7,500 gallons)
  - (5). two sodium bromide cooling water bio control tanks (6,400 gallons)
  - (6). sodium hypochlorite make-up water bio control tank (1,200 gallons)
  - (7). Ammonium sulfate make-up water sulfate tank (110 gallons)
  - (8). Two Sulfuric acid cooling water acid tanks (11,000gallons)
  - (9). circ waste water setting basin (10,000 gallons)
  - (10). Two NRM Waste water system collection Tanks (1,700 gallons each)
- (j). One 150 bhp Emergency Fire Pump that operates less than 100 hours per year on No. 2 Fuel Oil (estimated annual emissions are less than 0.11 tons NO<sub>x</sub>/yr, 0.02 tons VOC/yr, 0.01 tons CO per year, 0.005 tons PM/yr, and 0.005 tons SO<sub>x</sub>/yr). This source was exempted from plan approval through Request for Determination 46-A01-2552 on December 26, 2007.
- (k) one No.2 fuel oil fired boiler < 10MMBTU/hr.
- (l) Purate(CIO<sub>2</sub>) chemical process.
- (m) Two 78% sulfuric acid tanks (6650 gallons)
- (n) HCVS: 40 cylinders of Argon.

#006. The permittee shall perform at least one time calculations or keep data on the sources listed in Section G Condition Numbers #003 and/or #005 to demonstrate the reason to classify the sources as insignificant and to include the emissions, as calculated, in the annual AIMS Inventory Report submitted by March 1 of each year.

#007. APS No. 346524; Authorization No. 569647 - This action is for the renewal of the Title V Permit for Exelon Generation Company Limerick Generating Station.

#### Changes Made in this Title V Renewal Permit

##### Changes to Section A

The following changes have been made to the language written in Section A of the Title V Permit:

- (1). Responsible Official and Permit Contact names were updated on the title page.
- (2). Boilers B and C were combined under one Source ID Number (Source ID No. 002A).
- (3). The eight emergency generators were combined under one Source ID Number (Source ID No. 004A).

##### Changes to Section B

The following changes have been made to the language written in Section B of the Title V Permit:

- (1). Condition #003 - The permit format was changed and now the date is specified on page 1. The Title V Renewal reflects this change in the condition.
- (2). Condition #020 - The address for the place to send reports to the U.S. EPA was changed from "Enforcement Programs Section (3AT13)" to "Air Enforcement Branch (3AP12)."



**SECTION H. Miscellaneous.**

(3). Condition #024(a) - Two phrases were added to the condition to allow for alternate dates by which the facility can submit compliance certification reports. The condition is written as follows, and the additional phrases are written in italics:

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 limitation, standards or work practices.

(4). Condition #024(b) - A phrase was added to the condition, and the change is identified in italics:

The compliance certification should be postmarked or hand-delivered within thirty days of each anniversary date of the date of issuance or, of the submittal date specified elsewhere in the permit, to the Department and EPA in accordance with the submission requirements specified in condition #020 of this permit.

**Changes to Section C**

The following changes have been made to the language written in Section C of the Title V Permit:

- (1). Section C Condition #002(f) - Added a reference to 25 Pa. Code § 129.14 and Section C Condition #007 for other requirements regarding open burning operations.
- (2). Section C Condition #003 - Added a reference to 25 Pa. Code § 123.1(a) to provide a regulatory basis for Condition #003.
- (3). Section C Condition #006 - Added a regulatory reference to 25 Pa. Code § 123.41 to this condition.
- (4). Removed the testing and recordkeeping requirements for sulfur content of the fuels from Section C and placed this condition under each source in Section D of the renewal permit in which these conditions apply.
- (5). Section C Condition #010 - This condition was updated to the language that is currently included in all permits for facility-wide monitoring of odors, visible emissions, and fugitive particulate matter.
- (6). Section C Condition #011 - This condition was updated so that each event in which the facility is monitored for odors, visible emissions, and fugitive particulate matter is recorded. If there is an event where a deviation occurs, then Exelon/Limerick is required to record the date, time and location of the incident, the cause of the incident, and the corrective action that was taken.
- (7). Section C Condition #013 - Added a condition to keep records of de minimis increases of emissions from each source at the facility.
- (8). Section C Condition #014 - Updated the Department's contact information. The initial and amended Title V Permits for this facility were issued before the change in the Department's location.
- (9). Section C Condition #016 - Added a condition to the permit setting April 1 of each year as the date to submit the annual compliance certification for the previous calendar year (January 1 through December 31). This condition also sets the dates for submittal of the semi-annual monitoring reports for October 1 and April 1 (with the compliance certification fulfilling the obligation for the semi-annual report for July 1 through December 31).
- (10). Section C VIII. Compliance Certification - removed the date from this section of the permit after added Section C Condition #016 for clarity.

**Changes to Section D**

The following changes have been made to the language written in Section D of the Title V Permit:

- (1). Section D Source ID No. 001 Condition #006 - Added a list of chemical contaminants to Condition #006(a) and (b).
- (2). Section D Source ID No. 001 Condition #008 - Added a condition to monitor the amount and type of each fuel used and the hours of operation for Boiler A.
- (3). Section D Source ID No. 001 Condition #011 - Added a condition to record the amount and type of each fuel used and the hours of operation for Boiler A.

**SECTION H. Miscellaneous.**

- (4). Section D Source ID No. 004A Condition #003 - Updated capacity factor requirement.
- (5). Section D Source ID No. 004A Condition #004 - Added condition to test the sulfur content of the No. 2 Fuel Oil used in the emergency generators.
- (6). Section D Source ID No. 004A Condition #006 - Added the phrase "or test results" to Condition #006(b)(2) to include testing that may be performed by Exelon Generation Company, LLC for the demonstration of sulfur and ash content of the No. 2 Fuel consumed by the emergency generators.
- (7). Section D Source ID Nos. 101 and 102 - Added conditions to test for Total Dissolved Solids (TDS) of the blowdown water from these cooling towers and monitoring and recordkeeping for the circulation flow rate of water for each cooling tower.
- (8). Section D Source ID No. 103 - Added monitoring and recordkeeping of hours of operation of the Emergency Spray Pond to show when the source is operating outside of normal operation.

**Section G**

The insignificant source list was updated to reflect the insignificant activities that are performed at this facility.

#008. APS No. 346524; Authorization No. 822702: This Title V Permit was opened to amend typographical errors associated with emission limits for Source ID Nos. 001 and 002A. The emission limits for nitrogen oxides and sulfur oxides pertain to each boiler listed under Source ID No. 002A. The emission limits in the initial Title V Permit issued to Exelon Generation Company/Limerick Generation Station were listed under each individual source. This did not carry over when Boilers B and C were combined under one source (Source ID No. 002A). This correction was performed in accordance with 25 Pa. Code Section 127.450(a)(1).

#009 APS 346524, Auth #1023756 - Renewal of Operating Permit. Eight (8) RICE sources were added to the permit under either Source ID Numbers 105 or 106. A parts washer that uses a solvent with a VOC content of not more than 5.0% was identified as an insignificant source. Daily monitoring was changed to weekly monitoring per letter dated December 6, 2010 for Section C, condition #010.

Specifically, for each ozone season beginning after January 1, 2015, the Department intends to accept the surrender of annual and ozone season TR NO<sub>x</sub> allowances as a compliance alternative to the surrender of annual and ozone season CAIR NO<sub>x</sub> allowances if the TR allowances are surrendered for compliance purposes in a manner consistent with the surrender provisions for CAIR allowances set forth in the applicable sections specified in this notice. The Department consulted with staff in the United States Environmental Protection Agency (EPA) Region III Office in developing an alternative allowance surrender approach for compliance with the applicable SIP-approved requirements. To this end, the EPA has confirmed, in writing, that TR NO<sub>x</sub> allowances may be surrendered as set forth in the applicable regulations in 25 Pa. Code Chapters 129 and 145. A detailed notice was published in the PA bulletin on April 4, 2015 [45 Pa.B. 1687].

#010 APS 346524, Auth #1147476 - modification of Title V permit to incorporate site wide NO<sub>x</sub> and VOC limits.

#011 APS 346524, Auth #1335584 - renewal of TVOP. No new sources added for this renewal. Daily monitoring was changed to weekly monitoring per a letter dated December 6, 2010 for Section C, condition #011.

#012 APS 346524, Auth #1399284 - Amendment of TVOP - Name changed to Constellation Energy Generation LLC.

#013 APS 346524, Auth #1528688 - RACT III - Case by Case, Modification of TVOP



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

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