



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: Effective Date:  
Revision Date: Expiration Date:  
Revision Type: Modification

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval 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 plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 35-00069B

Federal Tax Id - Plant Code: 36-4462793-1

Owner Information

Name: LACKAWANNA ENERGY CTR LLC  
Mailing Address: 1 S WACKER DR STE 1900  
CHICAGO, IL 60606-4644

Plant Information

Plant: LACKAWANNA ENERGY CTR LLC/JESSUP  
Location: 35 Lackawanna County 35814 Jessup Borough  
SIC Code: 4911 Trans. & Utilities - Electric Services

Responsible Official

Name: BRIAN SCHUELER  
Title: VICE PRESIDENT  
Phone: (312) 582 - 1421

Plan Approval Contact Person

Name: GORDY GRAY  
Title: DEVELOPMENT MANAGER  
Phone: (312) 582 - 1290

[Signature] \_\_\_\_\_  
MARK J. WEJKSZNER, NORTHEAST REGION AIR PROGRAM MANAGER



### Plan Approval Description

This plan approval superceeds Plan Approval 35-00069A and does not add any new air emission sources that have been permitted under Plan Approval 35-00069A. The only change is in the plant layout and air modeling has been done under this new configuration.

This plan approval retains all of the same permitted air emission sources as the previous Plan Approval 35-00069A. This plan approval is for the construction and temporary operation of three (3) identical General Electric Model 7HA.02 natural gas fired combustion turbines and heat recovery steam generator with duct burners (CT/HRSG). Each CT/HRSG combined-cycle process block includes one (1) combustion gas turbine and one (1) heat recovery steam generator with duct burners and one (1) steam turbine. The entire power block is rated at 1,500 MW.

Additional equipment includes:

- one (1) 2,000 kW diesel-fired emergency generator
- one (1) 315 HP diesel-fired emergency fire water pump
- one (1) 184.8 MM BTU/hr natural gas fired boiler
- one (1) 12 MMBTU/hr natural gas fuel gas heater
- two (2) Diesel fuel storage tanks
- four (4) lubricating oil tanks
- one (1) aqueous ammonia storage tank



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

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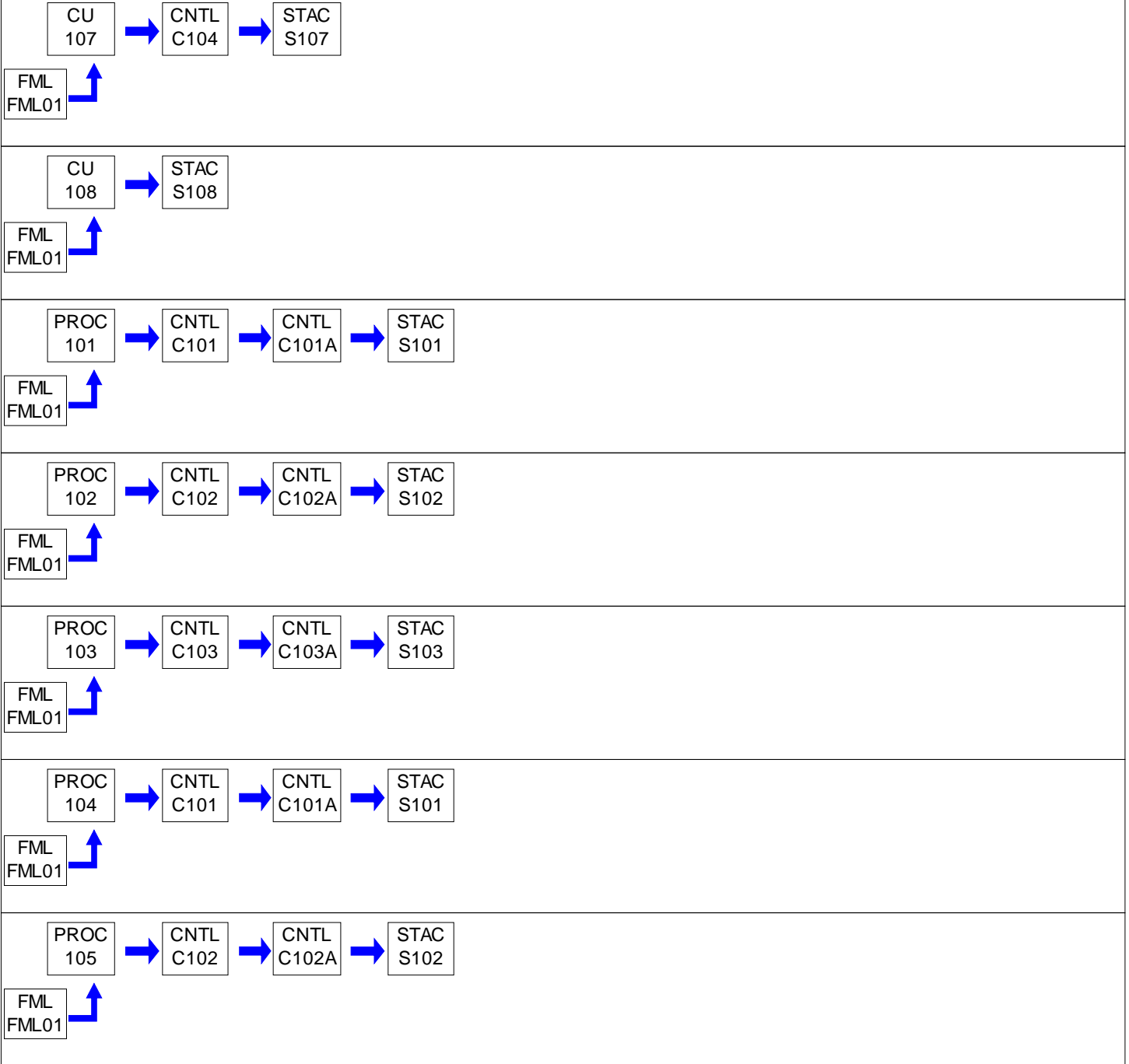
Source ID	Source Name	Capacity/Throughput	Fuel/Material
107	BOILER	184.800 MMBTU/HR	
		191,107.000 CF/HR	Natural Gas
108	FUEL GAS HEATER	12.000 MMBTU/HR	
		12,410.000 CF/HR	Natural Gas
101	COMBUSTION TURBINE #1	3,304.300 MMBTU/HR	
		3,417,063.000 CF/HR	Natural Gas
102	COMBUSTION TURBINE #2	3,304.300 MMBTU/HR	
		3,417,063.000 CF/HR	Natural Gas
103	COMBUSTION TURBINE #3	3,304.300 MMBTU/HR	
		3,417,063.000 CF/HR	Natural Gas
104	DUCT BURNER - HRSG #1	659,710.000 CF/HR	Natural Gas
105	DUCT BURNER- HRSG #2	659,710.000 CF/HR	Natural Gas
106	DUCT BURNER - HRSG #3	659,710.000 CF/HR	Natural Gas
109	EMERGENCY GENERATOR	138.000 Gal/HR	Diesel Fuel
110	FIRE PUMP ENGINE	15.000 Gal/HR	Diesel Fuel
201	LUBRICATING OIL SUMP CT #1 (10,000 GAL)		
202	LUBRICATING OIL SUMP CT #2 (10,000 GAL)		
203	LUBRICATING OIL SUMP CT #3 (10,000 GAL)		
204	DIESEL STORAGE TANK EMERG. GEN. (3,500 GAL)		
205	DIESEL STORAGE TANK FOR FIRE PUMP (300 GAL)		
206	AQUEOUS AMMONIA STORAGE TANK (60,000 GAL)		
207	LUBRICATING OIL SUMP STEAM TURBINE (10,000 GAL)		
Z001	FUGITIVE EMISSIONS		
C101	SCR		
C101A	OXYDATION CATALYST		
C102	SCR		
C102A	OXYDATION CATALYST		
C103	SCR		
C103A	OXYDATION CATALYST		
C104	SCR		
FML01	NATURAL GAS MAIN		
FML02	3500 GALLON DIESEL TANK		
FML03	300 GALLON DIESEL TANK		
S101	STACK - SOURCE ID 101		
S102	STACK - SOURCE ID 102		
S103	STACK - SOURCE ID 103		
S107	STACK - SOURCE ID 107		
S108	STACK - SOURCE ID 108		
S109	STACK - SOURCE ID 109		
S110	STACK - SOURCE ID 110		
Z201	FUGITIVE SOURCE ID 201		
Z202	FUGITIVE SOURCE ID 202		
Z203	FUGITIVE SOURCE ID 203		



**SECTION A. Plan Approval Inventory List**

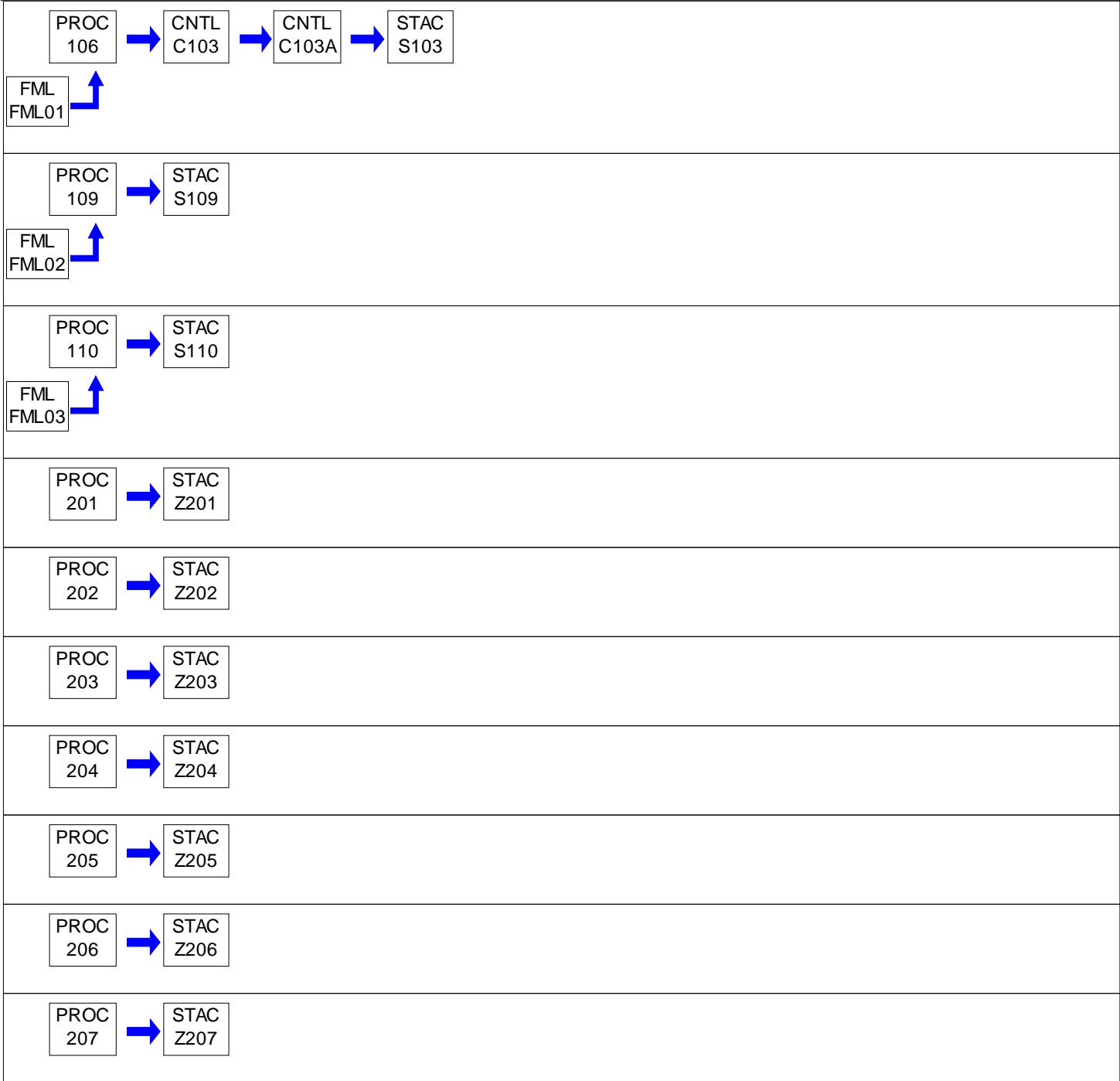
Source ID	Source Name	Capacity/Throughput	Fuel/Material
Z204	FUGITIVE SOURCE ID 204		
Z205	FUGITIVE SOURCE ID 205		
Z206	FUGITIVE SOURCE ID 206		
Z207	FUGITIVE SOURCE ID 207		

**PERMIT MAPS**





**PERMIT MAPS**



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

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

**#002 [25 Pa. Code § 127.12b (a) (b)]****Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

**#003 [25 Pa. Code § 127.12b]****Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 15 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

**#004 [25 Pa. Code § 127.12(a) (10)]****Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

**#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]****Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the



**SECTION B. General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

**#006 [25 Pa. Code § 127.12b]****Plan Approval terms and conditions.**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

**#007 [25 Pa. Code § 127.32]****Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

**#008 [25 Pa. Code § 127.12(4) & 35 P.S. § 4008 & § 114 of the CAA]****Inspection and Entry**

(a) 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.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

**SECTION B. General Plan Approval Requirements**

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

**#009 [25 Pa. Code 127.13a]****Plan Approval Changes for Cause**

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

- (a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.
- (b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (c) The permittee fails to submit a report required by this plan approval.
- (d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

**#010 [25 Pa. Code §§ 121.9 & 127.216]****Circumvention**

- (a) The permittee, 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 plan approval, 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.

**#011 [25 Pa. Code § 127.12c]****Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

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

**#012 [25 Pa. Code § 127.12(9) & 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 facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:
  - (1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

**SECTION B. General Plan Approval 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 the Environmental Protection Agency 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 plan approval 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.

**#013 [25 Pa. Code § 127.25]****Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.

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

The permittee shall not permit the emission of fugitive air contaminants into the outdoor atmosphere from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Open burning operations.
- (7) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.
- (8) Sources and classes of sources other than those identified 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:

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

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

The permittee shall not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in (1) through (8) in condition #001 if the emissions are visible at the point the emissions pass outside the permittee's property.

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

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

**# 004 [25 Pa. Code §123.41]****Limitations**

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

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

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

The emission limitations in condition #004 shall not apply when:

- (1) The presence of uncombined water is the only reason for failure of the emission to meet the limitations;
- (2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions;
- (3) The emission results from sources specified in condition #001 (1) through (8).

**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The facility wide emissions below are based on the facility potential actual emissions (PAE) for each pollutant as listed in the facility PSD application. The permittee shall comply with the emissions limitations specified below at all times including during periods of startup and shutdown and emissions from all sources at the facility shall not exceed:

- (a) 273.9 tons of carbon monoxide in any 12 consecutive month period.
- (b) 304.6 tons of nitrogen oxides (as nitrogen dioxide) in any 12 consecutive month period.
- (c) 76.0 tons of volatile organic compounds in any 12 consecutive month period.

**SECTION C. Site Level Plan Approval Requirements**

- (d) 147.5 TPY PM10(filterable and condensable) in any 12 consecutive month period.
- (e) 147.5 TPY PM2.5(filterable and condensable) in any 12 consecutive month period.
- (f) 4,938,598 tons of greenhouse gases in any 12 consecutive month period.
- (g) 73.1 tons of total PM (filterable) in any 12 consecutive month period.
- (h) 22.8 tons of total hazardous air pollutants in any 12 consecutive month period
- (i) 9.4 tons of formaldehyde (HCHO) in any 12 consecutive month period.
- (j) 39.9 tons of sulfur oxides (as sulfur dioxide) in any 12 consecutive month period
- (k) 31.2 tons of sulfuric acid mist in any 12 consecutive month period.
- (l) 0.031 tons of lead (Pb) in any 12 consecutive month period.

The facility is a natural minor source of HAP's, Pb, and a synthetic minor source of SO<sub>2</sub>.

**# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available control technology requirements of 40 CFR Part 52.21, 25 Pa. Code Section 127.1 and 127.12, the combined total sulfur hexafluoride (SF<sub>6</sub>) emissions from all of the circuit breakers used at the facility shall not exceed 7.0 pounds in any 12 consecutive month period. Additionally, the total greenhouse gas emissions from all of the circuit breakers used at the facility shall not exceed 79.8 tons in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.****# 008 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- (a) Pursuant to 25 Pa. Code § 139.3, at least 45 calendar days prior to commencing a EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (b) Pursuant to 25 Pa. Code § 139.3, at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Department's North East Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.
- (c) Pursuant to 25 Pa. Code Section 139.53(a)(3) within 15 calendar days after completion of the on-site testing portion of a EPA reference method test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's North East Regional Office and Division of Source Testing and Monitoring indicating the completion date of the on-site testing.
- (d) Pursuant to 40 CFR Part 60.8(a), complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of a EPA reference method test program.
- (e) Pursuant to 25 Pa. Code Section 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:
  1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
  2. Permit number(s) and condition(s) which are the basis for the evaluation.
  3. Summary of results with respect to each applicable permit condition.
  4. Statement of compliance or non-compliance with each applicable permit condition.
- (f) Pursuant to 25 Pa. Code § 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (g) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.

**SECTION C. Site Level Plan Approval Requirements**

(h) Pursuant to 25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3) all submittals, besides notifications, shall be accomplished through PSIMS\*Online available through <https://www.depgreenport.state.pa.us/ecomm/Login.jsp> when it becomes available. If internet submittal can not be accomplished, two (2) copies of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, Northeast Regional Office, Air Quality Program Manager with deadlines verified through document postmarks.

(i) The permittee shall insure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

**# 009 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

If, at any time, the Department has cause to believe that air contaminant emissions from the sources listed in this plan approval may be in excess of the limitations specified in, or established pursuant to this plan approval or the permittee's operating permit, the permittee may be required to conduct test methods and procedures deemed necessary by the Department to determine the actual emissions rate. Such testing shall be conducted in accordance with 25 Pa. Code Chapter 139, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the company that testing is required.

**# 010 [25 Pa. Code §139.1]****Sampling facilities.**

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on a source. The Department will set forth, in the request, the time period in which the facilities shall be provided, as well as the specifications for such facilities.

**# 011 [25 Pa. Code §139.11]****General requirements.**

(1) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the respective source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(2) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, at a minimum all applicable items below:

- (a) A thorough source description, including a description of any air cleaning devices and the flue.
- (b) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature, and other conditions which may affect emissions from the process.
- (c) The location of the sampling ports.
- (d) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO<sub>2</sub>, O<sub>2</sub> and N<sub>2</sub>), static and barometric pressures.
- (e) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
- (f) Laboratory procedures and results.
- (g) Calculated results.

**III. MONITORING REQUIREMENTS.****# 012 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

**SECTION C. Site Level Plan Approval Requirements****# 013 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall conduct a daily inspection of the facility during daylight hours while the facility is operating to detect visible emissions, visible fugitive emissions, and malodors. Daily inspections are necessary to determine:

- (1) The presence of visible emissions.
- (2) The presence of visible fugitive emissions.
- (3) The presence of malodors beyond the boundaries of the facility.

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

**# 014 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the circuit breakers at the facility shall be state-of-the-art sealed enclosed-pressure circuit breakers equipped with low-pressure alarms and a low-pressure lockout where the alarms are triggered when 10% of the sulfur hexafluoride (SF6) (by weight) has escaped. When the alarms are triggered, the permittee shall take immediate corrective action to fix the circuit breaker units to a like-new state to prevent the emission of sulfur hexafluoride (SF6) to the maximum extent practicable. If immediate corrective action can not be taken the permittee shall notify the Department of the reason for such a delay and ask for approval to take corrective action as soon as practicable.

**IV. RECORDKEEPING REQUIREMENTS.****# 015 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(1) The permittee shall keep accurate and comprehensive records of:

(a) the nitrogen oxides, carbon monoxide, volatile organic compounds, greenhouse gasses, total hazardous air pollutants, sulfur oxides (SO<sub>2</sub>), sulfuric acid mist, total PM, total PM<sub>10</sub>, total PM<sub>2.5</sub>, lead, formaldehyde, ammonia, and sulfur hexafluoride (SF<sub>6</sub>) emissions including emissions calculations from all air-contaminant sources, on a monthly basis and 12 month rolling sum, in order to demonstrate compliance with the facility wide emission limitations for all sources at the facility,

(b) Amount of fuel used by each combustion unit, engine, and turbine on a 12-month rolling basis.

(c) Hours of operation of each source on a 12-month rolling basis.

(d) Results of facility-wide inspections including the date, time, name, and title of the observer, along with any corrective action taken as a result.

(e) Copies of the manufacturer's recommended maintenance schedule for each air source and air cleaning device.

(f) All maintenance performed on each source and air cleaning device.

(g) Copies of the current, valid purchase contract, tariff sheet, or transportation contract obtained from the natural gas supplier with the sulfur content of the natural gas.

(h) Results of the monthly natural gas sulfur content analyses determined using an EPA approved test method.

(i) the permittee shall keep records of the amount of sulfur hexafluoride (SF<sub>6</sub>) dielectric fluid is added to each circuit breaker unit each month

(j) the date and time that each alarm associated with the circuit breaker units is activated, the corrective action taken to remedy the problem associated with each alarm, and the date the corrective action remedied the problem.

(2) All information used to satisfy this recordkeeping requirement shall be kept for a minimum of five (5) years and shall be

**SECTION C. Site Level Plan Approval Requirements**

made available to the Department upon request.

**# 016 [25 Pa. Code §135.5]****Recordkeeping**

(a) The permittee shall maintain and make available upon request of the Department such records, including computerized records that may be necessary to comply with 25 Pa. Code Section 135.3. These may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

(b) All records generated pursuant to this condition shall be retained for a minimum of five years and be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 017 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall submit semi-annual reports that include:

(1) the nitrogen oxides, carbon monoxide, volatile organic compounds, greenhouse gas, total hazardous air pollutants, sulfur oxides (SO<sub>2</sub>), sulfuric acid mist, total PM(filterable), total PM<sub>10</sub>(filterable and condensable), total PM<sub>2.5</sub>(filterable and condensable), formaldehyde, ammonia, lead, and sulfur hexafluoride (SF<sub>6</sub>) emissions including emissions calculations from all air-contaminant sources, on a monthly basis, in order to demonstrate compliance with the emission limitations for all sources at the facility,

(2) the amount of sulfur hexafluoride (SF<sub>6</sub>) dielectric fluid added to each circuit breaker unit each month,

(3) the date and time that each alarm associated with the circuit breaker units is activated, the corrective action taken to remedy the problem associated with each alarm, and the date the corrective action remedied the problem.

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

**# 018 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall submit all requested reports in accordance with the Department's suggested format.

**# 019 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall report malfunctions which occur at this facility to the Department. 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. Malfunctions that are not resulting in, or potentially resulting in, air contaminant emissions in excess of an applicable air contaminant emission limitation and/or are not resulting in, or potentially resulting in, noncompliance with any condition contained in this plan approval do not have to be reported. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(b) Failures that are caused in part by poor maintenance or careless operation shall be reported as excess emissions or deviations from the plan approval requirements.

(c) When the malfunction, excess emission or deviation from the plan approval requirements poses an imminent and substantial danger to the public health and safety or environment, the permittee shall notify the Department by telephone at 570-826-2511 no later than one (1) hour after the incident.

(d) Any malfunction, excess emission or deviation from the plan approval requirements, or any malfunction resulting in, or which may possibly be resulting in, a violation of any applicable plan approval requirement or any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection, that is not



**SECTION C. Site Level Plan Approval Requirements**

subject to the notice requirements of subsection (c) of this permit condition shall be reported to the Department within twenty-four (24) hours of discovery. In notifying the Department, the permittee shall describe the following:

- (i) name and location of the facility,
- (ii) nature and cause of the malfunction or breakdown,
- (iii) time when the malfunction or breakdown was first observed,
- (iv) expected duration of excess emissions,
- (v) estimated rate of emissions and
- (vi) corrective actions or preventative measures taken.

(e) The permittee shall notify the Department immediately when corrective measures have been accomplished.

(f) Upon the request of the Department, the permittee shall submit a full written report to the Regional Air Program Manager within fifteen (15) days of the malfunction, excess emission or deviation from the plan approval requirements.

**# 020 [25 Pa. Code §135.3]****Reporting**

(a) A person who owns or operates a source to which 25 Pa. Code Chapter 135 applies, and who has previously been advised by the Department to submit an annual Air Information Management Systems (AIMS) report, shall submit by March 1 of each year an AIMS report for the preceding calendar year. The report shall include information for all previously reported sources, new sources which were first operated during the proceeding calendar year and sources modified during the same period which were not previously reported.

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

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

(d) The Facility is subject New Source Performance Standards from 40 CFR Part 60 Subparts Db, IIII, and KKKK and National Emission Standards for Hazardous Air Pollutants from 40 CFR Part 63 Subpart ZZZZ. In accordance with 40 CFR §60.4, copies of all requests, reports, applications, submittals and other communications regarding the engines shall be forwarded to both EPA and the Department at the addresses listed below unless otherwise noted.

Associate Director  
Office of Air Enforcement and Compliance  
Mail Code 3AP20  
US EPA, Region III  
1650 Arch Street  
Philadelphia, PA 19101-2029

PA DEP  
Air Quality Program  
2 Public Square  
Wilkes Barre, PA 18711

If performance tests are required for Subpart NSPS JJJJ and MACT, ZZZZ, any such test reports are to be submitted the Region III e-mail Box R3 Subpart JJJJ.

Any NSPS and MACT reports submitted electronically should be submitted to EPA's Central Data Exchange:  
<https://cdx.epa.gov/>



## SECTION C. Site Level Plan Approval Requirements

### VI. WORK PRACTICE REQUIREMENTS.

#### # 021 [25 Pa. Code §123.1]

##### Prohibition of certain fugitive emissions

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne from any source specified in (1) through (8) in condition #001 herein. These actions shall include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (2) Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (3) Paving and maintenance of roadways.
- (4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

#### # 022 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, all air-contaminant sources and control devices at the facility shall be maintained and operated in a manner consistent with good air pollution control practices and in accordance with the manufacturer's recommendations.

### VII. ADDITIONAL REQUIREMENTS.

#### # 023 [25 Pa. Code §121.7]

##### Prohibition of air pollution.

The permittee shall not permit air pollution as that term is defined in the Pennsylvania Air Pollution Control Act (35 P.S. §§ 4001-4015).

#### # 024 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

The permittee shall comply with all applicable requirements of New Source Performance Standards from 40 CFR Part 60 Subparts Db, IIII, and KKKK and National Emission Standards for Hazardous Air Pollutants from 40 CFR Part 63 Subpart ZZZZ.

#### # 025 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

The permittee shall comply with all applicable requirements under 40 CFR Part 68 related to the Chemical Accident Prevention Provisions.

#### # 026 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

The permittee shall comply with all applicable requirements under 40 CFR Part 64 related to Compliance Assurance Monitoring (CAM).

#### # 027 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

The permittee shall comply with all applicable requirements under 40 CFR Parts 72-78 related to the Acid Rain Program.

#### # 028 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

The permittee shall comply with all applicable requirements under 40 CFR Part 96 related to the Clean Air Interstate Rule (CAIR) and 40 CFR Part 97 related to the Cross State Air Pollution Rule (CSAPR).

#### # 029 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

The permittee shall comply with all applicable requirements under 40 CFR Part 98 related to the Mandatory Greenhouse Gas Reporting Rule.

#### # 030 [25 Pa. Code §127.12b]

##### Plan approval terms and conditions.

Upon determination by the permittee that the air contamination sources and air cleaning devices covered by this plan

**SECTION C. Site Level Plan Approval Requirements**

approval are in compliance with all conditions of the plan approval, the permittee shall contact the Department to schedule the Initial Operating Permit Inspection.

**# 031 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Upon completion of the Initial Operating Permit Inspection and determination by the Department that the permittee is in compliance with all conditions of the plan approval, the permittee shall submit a Title V Operating Permit (TVOP) application for this Facility prior to this plan approval expiration, including any plan approval extensions granted by the Department.

**# 032 [25 Pa. Code §127.210]****Offset ratios.**

Pursuant to the new source review provisions in 25 Pa. Code Sections 127.201 through 127.217, the permittee shall purchase and apply 350.3 tons per year of NOx emission reduction credits (ERCs) and 87.4 tons per year of VOC ERCs prior to commencement of operation of any sources at the facility to offset the total of the net increase in potential to emit.

The permittee shall certify to the Northeast Regional Office of the Department the amount of ERCs purchased, the company from which the ERCs were purchased, and the effective date of transfer of the ERCs. The purchase and application of the NOx and VOC ERCs shall be tracked in the Department's ERC registry system. Failure to purchase and apply the ERCs prior to commencement of operation at the facility shall make this plan approval null and void.

**# 033 [25 Pa. Code §129.14]****Open burning operations**

The permittee shall not permit the open burning of material at this facility unless in accordance with 25 Pa. Code Section 129.14.

**VIII. COMPLIANCE CERTIFICATION.**

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

**IX. COMPLIANCE SCHEDULE.**

No compliance milestones exist.

**SECTION D. Source Level Plan Approval Requirements**

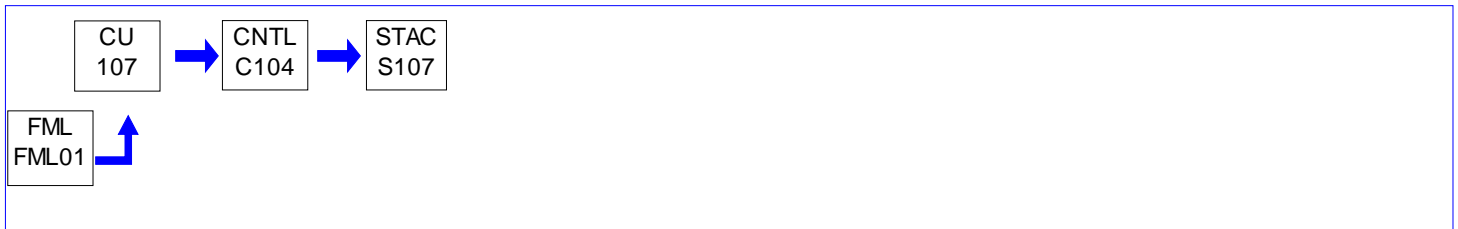
Source ID: 107

Source Name: BOILER

Source Capacity/Throughput: 184.800 MMBTU/HR

191,107.000 CF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The emissions from the boiler, Source ID 107, shall not exceed the following limitations:

- (a) Nitrogen Oxides (expressed as NO<sub>2</sub>) – 0.006 lb/mmbtu or 2.22 tpy on a 12-month rolling basis.
- (b) Sulfur Dioxide (expressed as SO<sub>2</sub>) – 0.0011 lb/mmbtu or 0.41 tpy on a 12-month rolling basis.
- (c) Particulate matter - PM(filterable) 0.002 lb/mmbtu or 0.69 tpy on a 12-month rolling basis.
- (d) PM<sub>10</sub> (filterable and condensable) – 0.007 lb/mmbtu or 2.59 tpy on a 12-month rolling basis.
- (e) PM<sub>2.5</sub> (filterable and condensable) – 0.007 lb/mmbtu or 2.59 tpy on a 12-month rolling basis.
- (f) CO: 0.037 lb/mmbtu or 13.68 tpy on a 12-month rolling basis.
- (g) VOC: 0.005 lb/mmbtu or 1.85 tpy on a 12-month rolling basis.
- (h) H<sub>2</sub>SO<sub>4</sub>: 0.00014 lb/mmbtu or 0.05 tpy on a 12-month rolling basis.
- (i) GHG: 44,107 tpy on a 12-month rolling basis.
- (j) Ammonia (NH<sub>3</sub>) slip: 5 ppmvd@15%O<sub>2</sub> during normal operation calculated on a 12 month rolling sum basis.
- (k) Pb: 5.0E-07 lb/mmbtu or 1.84E-04 tpy on a 12-month rolling basis.

[Authority for the PM emission limit is also derived from 25 PA Code Chapter 123.11]

[Authority for the SO<sub>2</sub> emission limit is also derived from 25 PA Code Chapter 123.22]

Compliance with the above limits for NO<sub>x</sub>, CO, VOC, PM, PM<sub>10</sub>, PM<sub>2.5</sub>, GHG, NH<sub>3</sub> slip, and H<sub>2</sub>SO<sub>4</sub> ensures compliance with the best available control technology (BACT) requirements under 25 Pa. Code, Chapter 127, Subchapter D (Prevention of Significant Deterioration of Air Quality).

Compliance with the above limits for NO<sub>x</sub> and VOC ensures compliance with the lowest achievable emission rate ("LAER") requirements of 25 Pa. Code, Chapter 127, Subchapter E. (New Source Review).

**# 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.44b]****Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units  
Standard for nitrogen oxides.**

- (a) The NO<sub>x</sub> standard applies at all times including periods of startup, shutdown, or malfunction, as per 40 C.F.R. §60.44b(h).
- (b) Compliance with the NO<sub>x</sub> emission limit (lb/MMBtu) is determined on a 30-day rolling average basis, as per 40 C.F.R. §60.44b(i).

**Fuel Restriction(s).****# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The boiler shall only be fired by natural gas supplied by a public utility.

**SECTION D. Source Level Plan Approval Requirements****Operation Hours Restriction(s).****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The boiler is limited to 4,000 hours/year of operation on a 12 month rolling sum basis.

**Control Device Efficiency Restriction(s).****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The boiler shall use of ultra low NOx burners (BAT) and SCR (LAER).

**II. TESTING REQUIREMENTS.**

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

As per 40 C.F.R. §60.46b(c) and (e), to determine compliance with the emission limit for NOx required under 40 CFR §60.44b, the permittee shall conduct the performance test as required under 40 C.F.R. §60.8 using the continuous system for monitoring NOx under 40 C.F.R. §60.48b(b).

(a) As per 40 C.F.R. §60.46b(e)(1), for the initial compliance test, NOx emissions from this unit are monitored for 30 successive unit operating days and the 30-day average emission rate is used to determine compliance with the NOx emission standard established under Condition #001 above. The 30-day average emission rate is calculated as the average of all hourly emissions data recorded by the monitoring system during the 30-day test period.

(b) As per 40 C.F.R. §60.46b(e)(3), following the date on which the initial performance test is completed or is required to be completed under 40 C.F.R. §60.8, whichever date comes first, the permittee shall determine compliance with the NOx standards under 40 C.F.R. §60.44b on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each unit operating day as the average of all of the hourly NOx emission data for the preceding 30 unit operating days

**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.46b]**  
**Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units**  
**Compliance and performance test methods and procedures for particulate matter and nitrogen oxides.**

The permittee shall comply with all applicable requirements of this section relating to nitrogen oxides.

**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.8]**  
**Subpart A - General Provisions**  
**Performance tests.**

(a) Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s).

(b) Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act.

(c) Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator

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such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

(d) The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present.

(e) The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:

(1) Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.

(2) Safe sampling platform(s).

(3) Safe access to sampling platform(s).

(4) Utilities for sampling and testing equipment.

(f) Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs.

**III. MONITORING REQUIREMENTS.**

**# 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.44b]  
Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units  
Standard for nitrogen oxides.**

(a) As per 40 C.F.R. §60.48b(b)(1), the permittee shall install, calibrate, maintain, and operate CEMS for measuring NOx and O2 (or CO2) emissions discharged to the atmosphere, and shall record the output of the system.

(b) As per 40 C.F.R. §60.48b(c), the CEMS shall be operated and data recorded during all periods of operation of the boiler except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.

(c) As per 40 C.F.R. §60.48b(d), the 1-hour average NOx emission rates measured by the continuous NOx monitor required by 40 C.F.R. §§60.48b(b) and 60.13(h) shall be expressed in lb/MMBtu heat input and shall be used to calculate the average emission rates under 40 C.F.R. §60.44b. The 1-hour averages shall be calculated using the data points required under 40 C.F.R. §60.13(h)(2).

(d) As per 40 C.F.R. §60.48b(e)(2)(ii), the procedures under 40 C.F.R. §60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems and the owner or operator of an affected facility may elect to use the NOx span values determined according to section 2.1.2 in appendix A to part 75 of this chapter.

(e) As per 40 C.F.R. §60.48b(f), when NOx emission data are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7 of appendix A of this part, Method 7A of appendix A of this part, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least

**SECTION D. Source Level Plan Approval Requirements**

22 out of 30 successive operating days.

**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48b]  
Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units  
Emission monitoring for particulate matter and nitrogen oxides.**

The permittee shall comply with all applicable requirements of this section relating to nitrogen oxides.

**IV. RECORDKEEPING REQUIREMENTS.**

**# 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48b]  
Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units  
Emission monitoring for particulate matter and nitrogen oxides.**

The owner or operator of an affected facility that has a heat input capacity of 73 MW (250 MMBtu/hr) or less, and that has an annual capacity factor for residual oil having a nitrogen content of 0.30 weight percent or less, natural gas, distillate oil, or any mixture of these fuels, greater than 10 percent (0.10) shall:

(a) Monitor steam generating unit operating conditions and predict NOX emission rates as specified in a plan submitted pursuant to §60.49b(c).

**# 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.49b]  
Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units  
Reporting and recordkeeping requirements.**

The owner or operator of an affected facility shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor individually for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

**# 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.49b]  
Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units  
Reporting and recordkeeping requirements.**

As per 40 C.F.R. §60.49b(g) and (i), the permittee shall maintain records of the following information for each operating day:

- (1) Calendar date;
- (2) The average hourly NOx emission rates (expressed as NO2) (lb/MMBtu heat input) measured or predicted;
- (3) The 30-day average NOx emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;
- (4) Identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under 40 C.F.R. §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;
- (5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
- (6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
- (7) Identification of the times when the pollutant concentration exceeded full span of the CEMS;
- (8) Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance

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Specification 2 or 3;

(9) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of 40 CFR Part 60.

**V. REPORTING REQUIREMENTS.**

**# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.49b]  
Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units  
Reporting and recordkeeping requirements.**

(a) The owner or operator of each affected facility shall submit notification of the date of initial startup, as provided by §60.7. This notification shall include:

- (1) The design heat input capacity of the affected facility and identification of the fuels to be combusted in the affected facility;
- (2) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §§60.42b(d)(1), 60.43b(a)(2), (a)(3)(iii), (c)(2)(ii), (d)(2)(iii), 60.44b(c), (d), (e), (i), (j), (k), 60.45b(d), (g), 60.46b(h), or 60.48b(i);
- (3) The annual capacity factor at which the owner or operator anticipates operating the facility based on all fuels fired and based on each individual fuel fired; and
- (4) N/A

(b) The owner or operator of each affected facility subject to the SO<sub>2</sub>, PM, and/or NO<sub>x</sub> emission limits under §§60.42b, 60.43b, and 60.44b shall submit to the Administrator the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in appendix B of this part. The owner or operator of each affected facility described in §60.44b(j) or §60.44b(k) shall submit to the Administrator the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility.

(c) The owner or operator of each affected facility subject to the NO<sub>x</sub> standard of §60.44b who seeks to demonstrate compliance with those standards through the monitoring of steam generating unit operating conditions under the provisions of §60.48b(g)(2) shall submit to the Administrator for approval a plan that identifies the operating conditions to be monitored under §60.48b(g)(2) and the records to be maintained under §60.49b(j). This plan shall be submitted to the Administrator for approval within 360 days of the initial startup of the affected facility. If the plan is approved, the owner or operator shall maintain records of predicted nitrogen oxide emission rates and the monitored operating conditions, including steam generating unit load, identified in the plan. The plan shall:

- (1) Identify the specific operating conditions to be monitored and the relationship between these operating conditions and NO<sub>x</sub> emission rates (i.e., ng/J or lbs/MMBtu heat input). Steam generating unit operating conditions include, but are not limited to, the degree of staged combustion (i.e., the ratio of primary air to secondary and/or tertiary air) and the level of excess air (i.e., flue gas O<sub>2</sub> level);
- (2) Include the data and information that the owner or operator used to identify the relationship between NO<sub>x</sub> emission rates and these operating conditions; and
- (3) Identify how these operating conditions, including steam generating unit load, will be monitored under §60.48b(g) on an hourly basis by the owner or operator during the period of operation of the affected facility; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator under §60.49b(j).

(d) The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling



**SECTION D. Source Level Plan Approval Requirements**

average basis with a new annual capacity factor calculated at the end of each calendar month.

(e) N/A

(f) For facilities subject to the opacity standard under §60.43b, the owner or operator shall maintain records of opacity.

(g) Except as provided under paragraph (p) of this section, the owner or operator of an affected facility subject to the NOX standards under §60.44b shall maintain records of the following information for each steam generating unit operating day:

(1) Calendar date;

(2) The average hourly NOX emission rates (expressed as NO<sub>2</sub>) (ng/J or lb/MMBtu heat input) measured or predicted;

(3) The 30-day average NOX emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;

(4) Identification of the steam generating unit operating days when the calculated 30-day average NOX emission rates are in excess of the NOX emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;

(5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;

(6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;

(7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;

(8) Identification of the times when the pollutant concentration exceeded full span of the CEMS;

(9) Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and

(10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of this part.

(h) The owner or operator of any affected facility in any category listed in paragraphs (h)(1) or (2) of this section is required to submit excess emission reports for any excess emissions that occurred during the reporting period.

(1) Any affected facility subject to the opacity standards under §60.43b(e) or to the operating parameter monitoring requirements under §60.13(i)(1).

(2) Any affected facility that is subject to the NOX standard of §60.44b, and that:

(i) Combusts natural gas, distillate oil, or residual oil with a nitrogen content of 0.3 weight percent or less; or

(ii) Has a heat input capacity of 73 MW (250 MMBtu/hr) or less and is required to monitor NOX emissions on a continuous basis under §60.48b(g)(1) or steam generating unit operating conditions under §60.48b(g)(2).

(3) For the purpose of §60.43b, excess emissions are defined as all 6-minute periods during which the average opacity exceeds the opacity standards under §60.43b(f).

(4) For purposes of §60.48b(g)(1), excess emissions are defined as any calculated 30-day rolling average NOX emission rate, as determined under §60.46b(e), that exceeds the applicable emission limits in §60.44b.

**SECTION D. Source Level Plan Approval Requirements**

(i) The owner or operator of any affected facility subject to the continuous monitoring requirements for NOX under §60.48(b) shall submit reports containing the information recorded under paragraph (g) of this section.

(j) N/A

(k) N/A

(l) N/A

(m) N/A

(n) N/A

(o) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of 2 years following the date of such record.

(p) The owner or operator of an affected facility described in §60.44b(j) or (k) shall maintain records of the following information for each steam generating unit operating day:

(1) Calendar date;

(2) The number of hours of operation; and

(3) A record of the hourly steam load.

(q) The owner or operator of an affected facility described in §60.44b(j) or §60.44b(k) shall submit to the Administrator a report containing:

(1) The annual capacity factor over the previous 12 months;

(2) N/A

(3) If the affected facility meets the criteria described in §60.44b(j), the results of any NOX emission tests required during the reporting period, the hours of operation during the reporting period, and the hours of operation since the last NOX emission test.

**# 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.7]**

**Subpart A - General Provisions**

**Notification and record keeping.**

(a) Each owner or operator required to install a continuous monitoring system (CMS) or monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form (see paragraph (d) of this section) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; or the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate). Written reports of excess emissions shall include the following information:

(1) The magnitude of excess emissions computed in accordance with 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.

(2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures

**SECTION D. Source Level Plan Approval Requirements**

adopted.

(3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.

(4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION D. Source Level Plan Approval Requirements**

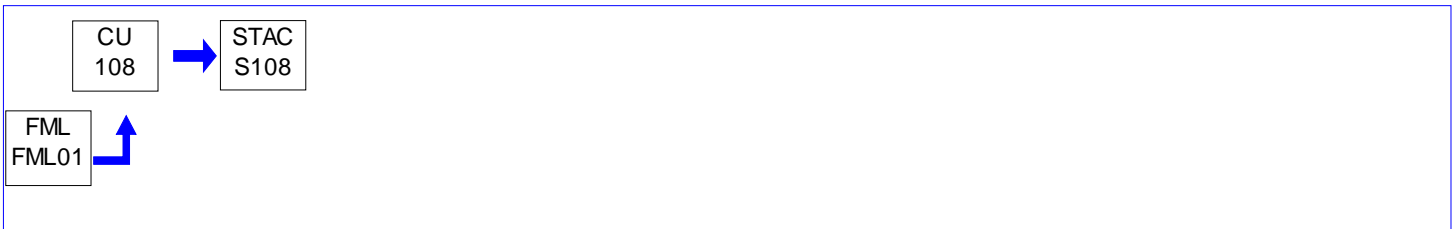
Source ID: 108

Source Name: FUEL GAS HEATER

Source Capacity/Throughput: 12.000 MMBTU/HR

12,410.000 CF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Emissions from the exhaust of the fuel gas heater, Source ID 108, shall not exceed the following limitations:

- (a) Sulfur Dioxide (expressed as SO<sub>2</sub>) – 0.0011 lb/mmbtu or 0.06 tpy on a 12-month rolling basis.
- (b) Particulate matter- filterable (PM) – 0.002 lb/mmbtu or 0.01 tpy on a 12-month rolling basis.
- (c) Particulate matter- filterable and condensable (PM<sub>10</sub>/PM<sub>2.5</sub>) – 0.007 lb/mmbtu or 0.37 tpy on a 12-month rolling basis.
- (d) NO<sub>x</sub> as NO<sub>2</sub> - 0.011 lb/mmBtu or 0.58 tpy on a 12-month rolling basis.
- (e) CO - 0.037 lb/mmBtu or 1.94 tpy on a 12-month rolling basis.
- (f) VOC - 0.005 lb/mmBtu or 0.26 tpy on a 12-month rolling basis.
- (g) H<sub>2</sub>SO<sub>4</sub> - 0.00014 lb/mmBtu or 7.1E-03 tpy on a 12-month rolling basis based on 10% molar conversion of SO<sub>2</sub> to SO<sub>3</sub> and 100% SO<sub>3</sub> to H<sub>2</sub>SO<sub>4</sub>.
- (h) GHG: 6,272 TPY on a 12-month rolling basis
- (i) Pb: 5.0E-07 lb/mmbtu or 2.6E-05 tpy on a 12-month rolling basis.

[Authority for the PM emission limit is also derived from 25 PA Code Chapter 123.11]

[Authority for the SO<sub>2</sub> emission limit is also derived from 25 PA Code Chapter 123.22]Compliance with the above limits for NO<sub>x</sub>, CO, VOC, PM, PM<sub>10</sub>, PM<sub>2.5</sub>, GHG, and H<sub>2</sub>SO<sub>4</sub> ensures compliance with the best available control technology (BACT) requirements under 25 Pa. Code, Chapter 127, Subchapter D (Prevention of Significant Deterioration of Air Quality).Compliance with the above limits for NO<sub>x</sub> and VOC ensures compliance with the lowest achievable emission rate ("LAER") requirements of 25 Pa. Code, Chapter 127, Subchapter E. (New Source Review).**Fuel Restriction(s).****# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The fuel gas heater shall only be fired by natural gas supplied by a public utility.

**Control Device Efficiency Restriction(s).****# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**BAT for the boiler shall be use of ultra low NO<sub>x</sub> burners.**II. TESTING REQUIREMENTS.****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

No later than one hundred and eighty (180) days after initial start-up, the permittee shall demonstrate compliance with the

**SECTION D. Source Level Plan Approval Requirements**

emission limitations for NO<sub>x</sub> and CO established in this permit for the fuel gas heater. The demonstration may include either of the following methods:

- a. Portable analyzers approved by the Department.
- b. Recent test data approved by the Department for identical heaters.

If, at any time, the Department has cause to believe that air contaminant emissions from a combustion unit covered by this permit are in excess of the limitations specified in, or established pursuant to, any applicable regulation contained in 25 Pa. Code, Subpart C, Article III, the permittee shall conduct tests deemed necessary by the Department to determine the actual emission rate(s).

**III. MONITORING REQUIREMENTS.**

**# 005 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall install and maintain the necessary meter(s) to determine and record the amount of fuel usage.

**IV. RECORDKEEPING REQUIREMENTS.**

**# 006 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall maintain records demonstrating compliance with the emission limits established in this permit for the fuel gas heater. The records shall be maintained in a 12 month rolling sum format for each pollutant.

Additionally the permittee shall maintain records of the 12 month rolling sum of fuel usage of the fuel gas heater.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 101

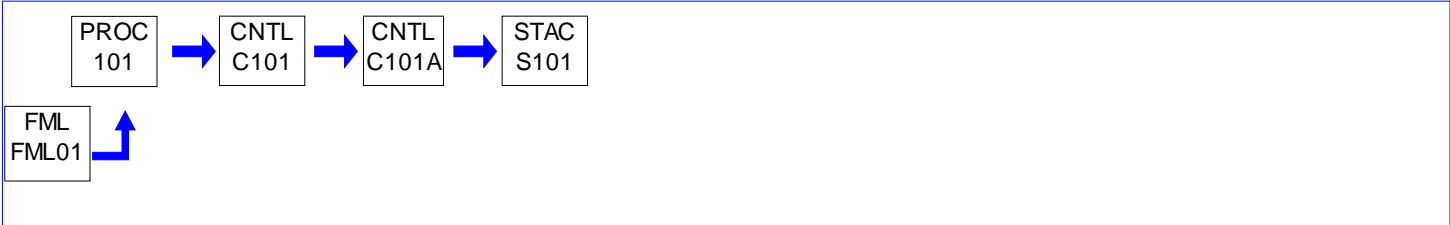
Source Name: COMBUSTION TURBINE #1

Source Capacity/Throughput: 3,304.300 MMBTU/HR

\*\*\*\*\* CF/HR

Natural Gas

Conditions for this source occur in the following groups: GROUP 1  
GROUP 4



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 102

Source Name: COMBUSTION TURBINE #2

Source Capacity/Throughput: 3,304.300 MMBTU/HR

\*\*\*\*\* CF/HR

Natural Gas

Conditions for this source occur in the following groups: GROUP 1  
GROUP 4



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 103

Source Name: COMBUSTION TURBINE #3

Source Capacity/Throughput: 3,304.300 MMBTU/HR

\*\*\*\*\* CF/HR

Natural Gas

Conditions for this source occur in the following groups: GROUP 1  
GROUP 4



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).





**SECTION D. Source Level Plan Approval Requirements**

Source ID: 104

Source Name: DUCT BURNER - HRSG #1

Source Capacity/Throughput: 659,710.000 CF/HR

Natural Gas

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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements**

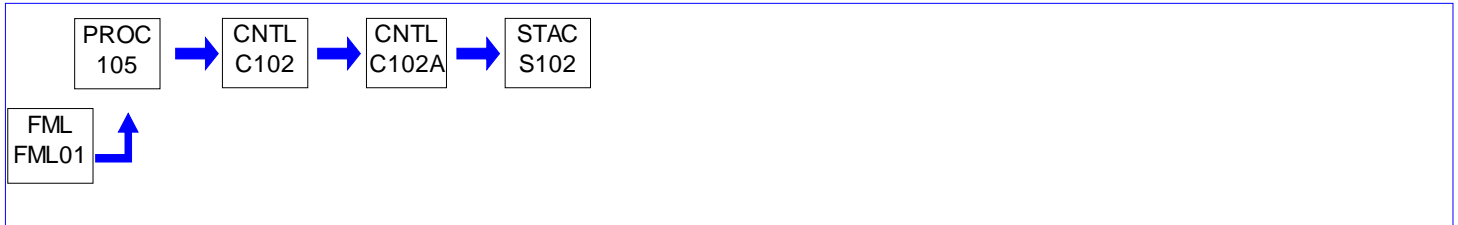
Source ID: 105

Source Name: DUCT BURNER- HRSG #2

Source Capacity/Throughput: 659,710.000 CF/HR

Natural Gas

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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements**

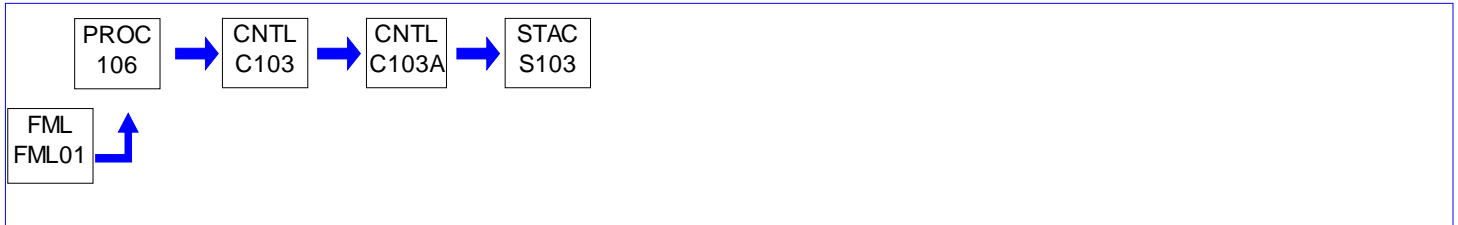
Source ID: 106

Source Name: DUCT BURNER - HRSG #3

Source Capacity/Throughput: 659,710.000 CF/HR

Natural Gas

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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 109

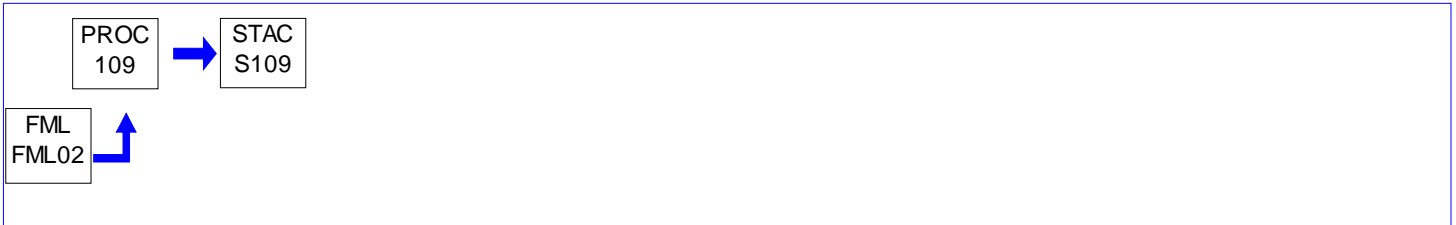
Source Name: EMERGENCY GENERATOR

Source Capacity/Throughput:

138.000 Gal/HR

Diesel Fuel

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

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Compliance with this streamlined permit condition will assure compliance with the provisions of 25 Pa. Code § 123.41] Pursuant to the best available technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the visible emissions from the emergency generator, Source ID 109, shall not exceed 15% in any 3-minute period and 50% at any time.

**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Emissions from the exhaust of the emergency generator, Source ID 109, shall not exceed the following limitations:

- (a) Nitrogen Oxides (expressed as NO<sub>2</sub>) – 5.45 gm/hp-hr or 0.81 tpy on a 12 month rolling basis;
- (b) Carbon Monoxide – 0.60 gm/hp-hr or 0.089 tpy on a 12 month rolling basis;
- (c) Volatile Organic Compound (expressed as THC) – 0.22 gm/hp-hr or 0.033 tpy on a 12 month rolling basis;
- (d) Particulate Matter PM (filterable) – 0.025 gm/hp-hr or 0.004 tpy on a 12 month rolling basis;
- (e) Particulate Matter PM<sub>10</sub>/PM<sub>2.5</sub> (filterable and condensable) – 0.025 gm/hp-hr or 0.004 tpy on a 12 month rolling basis
- (f) SO<sub>2</sub>: 0.002 lb/mmbtu, 0.0055 g/hp-hr or 0.000814 tpy on a 12-month rolling basis.
- (g) GHG: 81.0 tpy on a 12-month rolling basis.
- (h) H<sub>2</sub>SO<sub>4</sub>: 0.000674 g/hp-hr or 0.0001 tpy on a 12-month rolling basis
- (i) Pb: 9.0E-06 lb/mmbtu or 4.4E-06 tpy on a 12-month rolling basis.

[Authority for the PM emission limit is also derived from 25 PA Code Chapter 123.11]

[Authority for the SO<sub>2</sub> emission limit is also derived from 25 PA Code Chapter 123.22]

Compliance with the above limits for NO<sub>x</sub>, CO, VOC, PM, PM<sub>10</sub>, PM<sub>2.5</sub>, GHG, SO<sub>2</sub>, and H<sub>2</sub>SO<sub>4</sub> ensures compliance with the best available control technology (BACT) requirements under 25 Pa. Code, Chapter 127, Subchapter D (Prevention of Significant Deterioration of Air Quality).

Compliance with the above limits for NO<sub>x</sub> and VOC ensures compliance with the lowest achievable emission rate ("LAER") requirements of 25 Pa. Code, Chapter 127, Subchapter E. (New Source Review).

**# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?**

Pursuant to the requirements of 40 CFR § 60.4205(b) and 60.4211(c), the emergency generator, Source ID 109, shall be EPA-certified to meet the emissions standards that are specified in 40 CFR §§ 89.112 and 89.113 for the same model year and maximum engine power.

**SECTION D. Source Level Plan Approval Requirements****Fuel Restriction(s).****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to best available technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the permittee shall only use diesel fuel that is classified as ULTRA-LOW SULFUR NON-HIGHWAY DIESEL FUEL (15 ppm Sulfur Maximum) pursuant to 40 CFR Part 80 Subpart I, to operate the emergency generator (Source ID 109).

**Operation Hours Restriction(s).****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Compliance with this streamlined permit condition will assure compliance with the provisions of 40 CFR § 60.4211(f)]

(a) Pursuant to best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the total operation of Source ID 109 shall not exceed 100 hours in any 12 consecutive month period except for emergency use as defined in (c) below. This limit includes 50 hours per year of testing and maintenance

(b) Additionally, the emergency generator, Source ID 109, shall not be used for peak shaving or to generate income by supplying power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity.

(c) Actual emergency use of the emergency generator Source ID 109 shall not be limited. Hours of emergency use shall be recorded separately from hours of use tracked under the 100 hours in any 12 consecutive month period restriction in (a) above.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.****# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to best available technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the emergency generator, Source ID 109, shall be equipped with a non-resettable hour meter that accurately monitors the emergency generator's hours of operation.

**IV. RECORDKEEPING REQUIREMENTS.****# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority for this permit condition is also derived from the provisions of 40 CFR § 60.4214(b)]

(a) The permittee shall record the following information on the emergency generator, Source ID 109, on a monthly basis:

(b) hours that the engine-generator operated through the non-resettable hour meter

(c) the 12-consecutive month total hours of operation, including supporting documentation

(d) the time of operation of the engine-generator and the reason the engine-generator was in operation during that time

(e) The information used to demonstrate compliance with this recordkeeping requirement shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

**# 008 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall keep accurate and comprehensive records of the following information for the emergency generator (Source ID 109);

(a) the supporting information and calculations used to demonstrate that the emissions of particulate matter and sulfur oxides from the exhaust of the emergency generator comply with the requirements in 25 Pa. Code §§ 123.13 and 123.21,

**SECTION D. Source Level Plan Approval Requirements**

respectively;

(b) monthly emissions of nitrogen oxides, carbon monoxide, volatile organic compound, sulfur oxides (SO<sub>2</sub>), total PM, total PM<sub>10</sub>, total PM<sub>2.5</sub>, greenhouse gas (GHG), sulfuric acid (H<sub>2</sub>SO<sub>4</sub>), and lead (Pb) to demonstrate compliance with the emission limitations

(c) The information used to demonstrate compliance with this recordkeeping requirement shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

**# 009 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall keep record of the fuel certification reports for each delivery of diesel fuel for the emergency generator (Source ID 109) to verify compliance with the fuel restriction requirements for the emergency generator.

(a) The information used to demonstrate compliance with this recordkeeping requirement shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4206]**

**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

**How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee shall operate and maintain the emergency generator, Source ID 109, to achieve the emission standards specified in 40 CFR §§ 89.112 and 89.113 over the entire life of the engine.

(a) Any testing used to verify compliance with this work practice restriction shall be performed in accordance with 40 CFR Part 64 Subpart III, including 40 CFR § 60.4212, and acceptable test methods and procedures to the Department.

**# 011 [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 emergency generator, Source ID 109, shall be installed and configured according to the manufacturer's emission-related specifications.

**VII. ADDITIONAL REQUIREMENTS.**

**# 012 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

[Compliance with this permit condition will assure compliance with the requirements of 40 CFR Part 63 Subpart ZZZZ]

The emergency generator, Source ID 109, is subject to the requirements in 40 CFR Part 60 Subpart III. The permittee shall comply with all applicable provisions specified 40 CFR §§ 60.4200 through 60.4219, including appendices.

**# 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4210]**

**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

**What are my compliance requirements if I am a stationary CI internal combustion engine manufacturer?**

The emergency generator, Source ID 109, shall meet the labeling requirements in § 60.4210(f).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 110

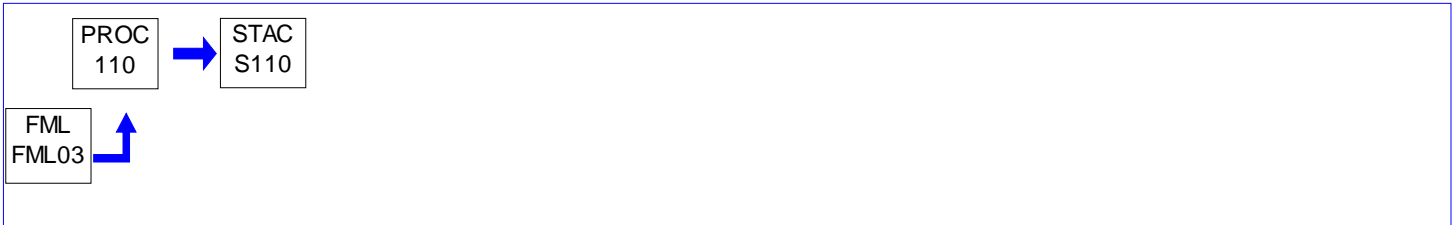
Source Name: FIRE PUMP ENGINE

Source Capacity/Throughput:

15.000 Gal/HR

Diesel Fuel

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

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The emissions from the fire pump engine shall not exceed the following:

- (a) Nitrogen Oxides (expressed as NO<sub>2</sub>) – 3.0 g/hp-hr or 0.05 tpy on a 12-month rolling basis
- (b) Carbon Monoxide – 0.5 g/hp-hr or 0.009 tpy on a 12-month rolling basis
- (c) Volatile Organic Compound (expressed as THC) – 0.12 g/hp-hr or 0.002 tpy on a 12-month rolling basis
- (d) Particulate matter PM (filterable): 0.11 g/hp-hr or 0.002 tpy on a 12-month rolling basis
- (e) Particulate matter (filterable and condensable)PM<sub>10</sub>/PM<sub>2.5</sub> – 0.11 g/hp-hr or 0.002 tpy on a 12-month rolling basis
- (f) SO<sub>2</sub>: 0.00465 g/hp-hr or 0.000081 tpy on a 12-month rolling basis.
- (g) H<sub>2</sub>SO<sub>4</sub>: 0.00057 g/hp-hr or 9.9E-06 tpy on a 12-month rolling basis.
- (h) GHG: 9.0 tpy on a 12-month rolling basis
- (i) Pb: 9.0E-06 lb/mmbtu or 4.8E-07 tpy on a 12-month rolling basis.

[Authority for the PM emission limit is also derived from 25 PA Code Chapter 123.11]

[Authority for the SO<sub>2</sub> emission limit is also derived from 25 PA Code Chapter 123.22]

Compliance with the above limits for NO<sub>x</sub>, CO, VOC, PM, PM<sub>10</sub>, PM<sub>2.5</sub>, GHG, and H<sub>2</sub>SO<sub>4</sub> ensures compliance with the best available control technology (BACT) requirements under 25 Pa. Code, Chapter 127, Subchapter D (Prevention of Significant Deterioration of Air Quality).

Compliance with the above limits for NO<sub>x</sub> and VOC ensures compliance with the lowest achievable emission rate ("LAER") requirements of 25 Pa. Code, Chapter 127, Subchapter E. (New Source Review).

**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Compliance with this streamlined permit condition will assure compliance with the provisions of 25 Pa. Code § 123.41] Pursuant to the best available technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the visible emissions from the engine-pump, Source ID 110, shall not exceed 15% in any 3-minute period and 50% at any time.

**# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?**

Pursuant to the requirements of 40 CFR § 60.4205(c) and 60.4211(c), the engine-pump, Source ID 110, shall be EPA-certified to meet the emissions standards that are specified in 40 CFR §§ 60.4205(c) for the same model year and maximum engine power.

**SECTION D. Source Level Plan Approval Requirements****Fuel Restriction(s).****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority for this permit condition is also derived from the provisions of 40 CFR § 60.4207]  
 Pursuant to best available technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the permittee shall only use diesel fuel that is classified as ULTRA-LOW SULFUR NON-HIGHWAY DIESEL FUEL (15 ppm Sulfur Maximum) pursuant to 40 CFR Part 80 Subpart I, to operate the engine-pump (Source ID 110).

**Operation Hours Restriction(s).****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the total operation of Source ID 110 shall not exceed 100 hours in any 12 consecutive month period, except for actual emergency use as defined below. This limit includes 50 hours per year of testing and maintenance

Actual emergency use of Source ID 110 shall not be limited. Hours of emergency use shall be recorded separately from hours of use tracked under the 100 hours in any 12 consecutive month period restriction above.

**II. TESTING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.****# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall record the following information on the engine-pump, Source ID 110, on a monthly basis:

- (a) the hours that the engine-pump operated through the non-resettable hour meter;
- (b) the 12-consecutive month total hours of operation, including supporting documentation
- (c) the time of operation of the engine-pump and the reason the engine-pump was in operation during that time
- (d) monthly emissions of nitrogen oxides, carbon monoxide, volatile organic compound, sulfur oxides (SO<sub>2</sub>), total PM, total PM<sub>10</sub>, total PM<sub>2.5</sub>, greenhouse gasses (GHG), sulfuric acid (H<sub>2</sub>SO<sub>4</sub>), and lead (Pb) to demonstrate compliance with the emission limitations
- (e) The information used to demonstrate compliance with this recordkeeping requirement shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

**# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall keep accurate and comprehensive records of the following information for the engine-pump (Source ID 110);

- (a) the supporting information and documentation used to demonstrate that the emissions from the exhaust of the engine-pump comply with the emissions limitations in this permit as well as the requirements in 25 Pa. Code §§ 123.13 and 123.21.
- (b) The information used to demonstrate compliance with this recordkeeping requirement shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

**# 008 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall keep record of the fuel certification reports for each delivery of diesel fuel for the engine-pump, Source ID



**SECTION D. Source Level Plan Approval Requirements**

110, to verify compliance with the fuel restriction requirements for the engine-pump.

(a) The information used to demonstrate compliance with this permit condition shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.**

**# 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4206]**

**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

**How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee shall operate and maintain the engine-pump, Source ID 110, to achieve the emission standards in this permit over the entire life of the engine.

(a) Any testing used to verify compliance with this work practice restriction shall be performed in accordance with 40 CFR Part 64 Subpart IIII, including 40 CFR § 60.4212, and test methods and procedures acceptable to the Department.

**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**

**Subpart IIII - 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 engine-pump, Source ID 110, shall be installed and configured according to the manufacturer's emission-related specifications.

**VII. ADDITIONAL REQUIREMENTS.**

**# 011 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

[Compliance with this permit condition will assure compliance with the requirements of 40 CFR Part 63 Subpart ZZZZ]

The engine-pump, Source ID 110, is subject to the requirements in 40 CFR Part 60 Subpart IIII. The permittee shall comply with all applicable provisions specified 40 CFR §§ 60.4200 through 60.4219, including appendices.

(a) The engine-pump shall include electronic fuel injection and a turbocharged aspiration system.



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 201

Source Name: LUBRICATING OIL SUMP CT #1 (10,000 GAL)

Source Capacity/Throughput:

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



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 202

Source Name: LUBRICATING OIL SUMP CT #2 (10,000 GAL)

Source Capacity/Throughput:

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



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 203

Source Name: LUBRICATING OIL SUMP CT #3 (10,000 GAL)

Source Capacity/Throughput:

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



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 204

Source Name: DIESEL STORAGE TANK EMERG. GEN. (3,500 GAL)

Source Capacity/Throughput:

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



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 205

Source Name: DIESEL STORAGE TANK FOR FIRE PUMP (300 GAL)

Source Capacity/Throughput:

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



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

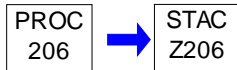
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 206

Source Name: AQUEOUS AMMONIA STORAGE TANK (60,000 GAL)

Source Capacity/Throughput:

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

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 207

Source Name: LUBRICATING OIL SUMP STEAM TURBINE (10,000 GAL)

Source Capacity/Throughput:

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



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval 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 plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: Z001

Source Name: FUGITIVE EMISSIONS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GROUP 1

Group Description: Combustion turbines with duct burners

Sources included in this group

ID	Name
101	COMBUSTION TURBINE #1
102	COMBUSTION TURBINE #2
103	COMBUSTION TURBINE #3
104	DUCT BURNER - HRSG #1
105	DUCT BURNER - HRSG #2
106	DUCT BURNER - HRSG #3
C101	SCR
C101A	AOXYDATION CATALYST
C102	SCR
C102A	AOXYDATION CATALYST
C103	SCR
C103A	AOXYDATION CATALYST

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) Emissions from the operation of each combustion turbine and HRSG (Source IDs 101, 102, 103, 104, 105, 106) shall not exceed the limits specified below:

- (1) Carbon monoxide: 2.0 ppmdv @ 15% O<sub>2</sub>
- (2) Nitrogen oxides (expressed as NO<sub>2</sub>): 2.0 ppmdv @ 15% O<sub>2</sub>
- (3) Volatile organic compounds: 1.0 ppmdv (without duct burner) and 1.5 ppmdv (with duct burner) @ 15% O<sub>2</sub>
- (4) Sulfur dioxide: 0.0011 lb/MMBtu
- (5) Total (filterable) Particulate Matter: 0.003 lb/MMBtu
- (6) Total (filterable and condensable) PM<sub>10</sub>: 0.0059 lb/MMBtu
- (7) Total (filterable and condensable) PM<sub>2.5</sub>: 0.0059 lb/MMBtu
- (8) Sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>): 0.00086 lb/MMBtu
- (9) Formaldehyde (HCHO): 0.091 ppmvd @ 15% O<sub>2</sub>
- (10) Lead (Pb): 0.02 tons/yr on a 12-month rolling sum based on AP-42 emission factor

Compliance with the above limits for NO<sub>x</sub>, CO, VOC, PM, PM<sub>10</sub>, PM<sub>2.5</sub>, GHG, and H<sub>2</sub>SO<sub>4</sub> ensures compliance with the best available control technology (BACT) requirements under 25 Pa. Code, Chapter 127, Subchapter D (Prevention of Significant Deterioration of Air Quality).

Compliance with the above limits for NO<sub>x</sub> and VOC ensures compliance with the lowest achievable emission rate ("LAER") requirements of 25 Pa. Code, Chapter 127, Subchapter E. (New Source Review).

(c) The above emissions limits shall apply at all times except for periods of startup and shutdown.

**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12;

The operation of all three combustion turbines and HRSG including startups and shutdowns shall not emit equal to or more than 9.9 tons of a single HAP and 22.8 tons of total hazardous air pollutants in any 12 consecutive month period.

**SECTION E. Source Group Plan Approval Restrictions.****# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12;

- (1) The operation of each combustion turbine with duct burner and heat recovery steam generator shall not emit more than:
- (a) 17.6 pounds of carbon monoxide (with duct burner) and 14.6 pounds of carbon monoxide (without duct burner) per hour,
  - (b) 29.0 pounds of nitrogen oxides (with duct burner) and 24.1 pounds of nitrogen oxide (without duct burner) per hour,
  - (c) 26.7 pounds of ammonia per hour in any 1-hour period
  - (d) 4.3 pounds of sulfur dioxide per hour
  - (e) 3.4 pounds of sulfuric acid mist per hour
  - (f) 9.0 pounds of total (filterable) particulate matter (PM) per hour
  - (g) 18.0 pounds of total (filterable and condensable) PM10 and PM2.5 per hour.
  - (h) 8.0 pounds of volatile organic compounds (with duct burner) and 4.2 pounds of VOC's (without duct burner) per hour.
- (2) The emission limitations specified above do not include the air-contaminants emitted during startups and shutdowns.
- (3) Short term limits for startup/shutdown are as follows:
- (a) Cold Start:
    - (a) 581.1 pounds of carbon monoxide per hour,
    - (b) 327.4 pounds of nitrogen oxides per hour,
    - (c) 72.0 pounds of volatile organic compounds per hour.
  - (b) Warm Start:
    - (a) 581.1 pounds of carbon monoxide per hour,
    - (b) 260.6 pounds of nitrogen oxides per hour,
    - (c) 72.0 pounds of volatile organic compounds per hour.
  - (c) Hot Start:
    - (a) 770.8 pounds of carbon monoxide per hour,
    - (b) 279.2 pounds of nitrogen oxides per hour,
    - (c) 94.6 pounds of volatile organic compounds per hour.
  - (d) Shutown:
    - (a) 732.9 pounds of carbon monoxide per hour,
    - (b) 34.3 pounds of nitrogen oxides per hour,

**SECTION E. Source Group Plan Approval Restrictions.**

(c) 360.0 pounds of volatile organic compounds per hour.

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

Pursuant to the best available technology provisions in 25 Pa. Code Sections 127.1 and 127.12,

NH<sub>3</sub> slip emissions from the operation of each combustion turbine and HRSG shall not exceed 5 ppmdv @ 15% O<sub>2</sub> during normal operation calculated monthly and on a 12 month rolling sum basis.

**# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12;

The operation of each combustion turbine with duct burner and heat recovery steam generator (Source IDs 101,102,103,104,105, and 106) including startups and shutdowns shall not emit more than:

- a) 84.9 tons of carbon monoxide in any 12 consecutive month period
- b) 100.3 tons of nitrogen oxides in any 12 consecutive month period
- c) 13.1 tons of sulfur dioxide in any 12 consecutive month period
- d) 10.4 tons of sulfuric acid mist in any 12 consecutive month period
- e) 24.1 tons of total particulate matter (PM) in any 12 consecutive month period
- f) 48.2 tons of total PM<sub>10</sub> and PM<sub>2.5</sub> in any 12 consecutive month period
- g) 100.4 tons of ammonia in any 12 consecutive month period
- h) 24.6 tons of volatile organic compounds in any 12 consecutive month period
- i) 1,629,115 tons of greenhouse gases (expressed as CO<sub>2</sub>e) in any 12 consecutive month period.

**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology provisions in 25 Pa. Code Sections 127.1 and 127.12, the emission of visible air contaminants from the operation of each combustion turbine and HRSG (Source IDs 101, 102, 103, 104, 105, and 106) shall not be in excess of 10% opacity for any 3-minute block and 10% opacity for any 6-minute block period during startup and shutdown.

**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4330]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What emission limits must I meet for sulfur dioxide (SO<sub>2</sub>)?**

You must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO<sub>2</sub>/J (0.060 lb SO<sub>2</sub>/MMBtu) heat input. If your turbine simultaneously fires multiple fuels, each fuel must meet this requirement.

**Fuel Restriction(s).****# 008 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The turbines and duct burner shall only be fired by natural gas supplied by a public utility. The sulfur content of the natural gas shall not exceed 0.4 grains/100 scf calculated monthly and on a 12 month rolling sum basis.

**Operation Hours Restriction(s).****# 009 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The durations of startups and shutdowns shall be minimized to the extent practicable.

(b) Startup and shutdown shall be accomplished as follows:

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- (i) Startup is defined as the period beginning when fuel begins flowing to the combustion turbine and ending when the combustion process, air pollution control equipment, and associated control systems have attained normal operating conditions.
  - (ii) Shutdown is defined as the period beginning when the combustion turbine exits DLN mode and ending when fuel flow ceases. Shutdowns shall not exceed 30 minutes in duration.
  - (iii) Cold start is identified as a restart occurring 72 hours or more after shutdown and shall not exceed 90 minutes in duration.
  - (iv) Warm start is identified as a restart occurring between 8 hours to 72 hours after shutdown and shall not exceed 90 minutes in duration.
  - (v) Hot start is identified as a restart occurring less than 8 hours after shutdown and shall not exceed 75 minutes duration.
- (c) The permittee shall record the time, date and duration of each startup and shutdown as well as the reason for each startup and shutdown.

**# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the total hours of startups and shutdowns for each of the combustion turbine and HRSG shall not exceed 500 hours in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.****# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- (a) Pursuant to the best available technology requirements of 25 Pa. Code Section 127.12b, within 180 days of the commencement of operation of each combustion turbine and HRSG, the permittee shall conduct EPA reference method testing on each respective unit for nitrogen oxides, carbon monoxide, ammonia slip, volatile organic compounds, sulfur oxides (SO<sub>2</sub>), sulfuric acid mist, total PM(filterable), total PM<sub>10</sub>(filterable and condensable), total PM<sub>2.5</sub>(filterable and condensable), formaldehyde, hexane, and toluene emissions.
- (b) Subsequent EPA reference method testing for volatile organic compounds, sulfur oxides (SO<sub>2</sub>), sulfuric acid mist, total PM, total PM<sub>10</sub>, total PM<sub>2.5</sub>, and formaldehyde emissions shall be conducted every two years from the date of the previous tests. The Department may not require hexane and toluene testing if test results from the testing conducted in (a) above show the levels emitted are of minor significance. The testing frequency may be revised based upon the satisfactory demonstration of compliance with the emission limitations.
- (c) All testing shall be performed at maximum normal operating conditions that will demonstrate compliance with all emissions limitations specified in this plan approval.

**# 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4400]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I conduct the initial and subsequent performance tests, regarding NOX ?**

The permittee shall comply with the applicable testing requirements specified in 40 CFR Section 60.4400.

**# 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4405]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I perform the initial performance test if I have chosen to install a NOX-diluent CEMS?**

The permittee shall comply with the applicable testing requirements specified in 40 CFR Section 60.4405.

**# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4415]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I conduct the initial and subsequent performance tests for sulfur?**

The permittee shall comply with the applicable testing requirements specified in 40 CFR Section 60.4415.

**III. MONITORING REQUIREMENTS.****# 015 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- (a) The permittee shall install, certify, maintain and operate continuous emission monitoring systems (CEMS) for nitrogen oxides, carbon monoxide, and either carbon dioxide or oxygen, and install an ammonia slip monitoring system on the exhaust of each combustion turbine and heat recovery steam generator in accordance with all applicable requirements

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specified in 25 Pa. Code Chapter 139 and the Department's "Continuous Source Monitoring Manual." No CEMS may however be installed unless Phase I approval has first been obtained from the Department.

(b) The permittee shall submit a Phase I application to the Department for all CEMS to be associated with each combustion turbine and HRSG at least 180 days prior to the expected commencement of operation date of each respective unit.

(c) The permittee shall implement a carbon dioxide mass emission monitoring system in accordance with the requirements in 40 CFR Section 98.43 and 40 CFR Section 75.13.

**# 016 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the pressure differential across the selective catalytic reduction catalysts as well as the catalyst inlet and outlet temperatures shall be monitored and recorded on a continuous basis. Visual and audible alarms shall be utilized to indicate improper operation.

**# 017 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the pre-control and postcontrol nitrogen oxides (expressed as NO<sub>2</sub>) emissions shall be monitored and recorded by the feed-forward process control loop to ensure maximum control efficiency and minimum ammonia slip. Visual and audible alarms shall be utilized to indicate improper operation.

**# 018 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the pressure differential across the oxidation catalyst (IDs C101A, C102A, C103A) as well as the catalyst inlet and outlet temperatures shall be monitored and recorded on a continuous basis. Visual and audible alarms shall be utilized to indicate improper operation.

**# 019 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, a monitoring system shall be in each stack to monitor and record percent oxygen levels.

**# 020 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the permittee shall monitor and record the pressure differential across the inlet air filters for Source IDs 101, 102, and 103 on a weekly basis.

**# 021 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority for this permit condition is also derived from the provisions specified in 40 CFR Section 60.4365]

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the permittee shall use one of the following sources of information to monitor for SO<sub>2</sub> emissions from the combustion turbines and heat recovery steam generator on a monthly and a 12 month rolling sum basis.

(a) The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the maximum total sulfur content for natural gas use in continental areas is 0.4 grains of sulfur or less per 100 standard cubic feet and has potential sulfur emissions of less than 0.0011 lb SO<sub>2</sub>/MMBtu heat input; or

(b) Representative fuel sampling data which show that the sulfur content of the fuel does not exceed 0.0011 lb SO<sub>2</sub>/MMBtu heat input. At a minimum, the amount of fuel sampling data specified in 40 CFR 75 section 2.3.1.4 or 2.3.2.4 of appendix D is required.

**# 022 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4340]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I demonstrate continuous compliance for NOX if I do not use water or steam injection?**

The permittee shall comply with all applicable monitoring requirements specified in 40 CFR Sections 60.4340.

**# 023 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4345]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What are the requirements for the continuous emission monitoring system equipment, if I choose to use this option?**

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The permittee shall comply with all applicable monitoring requirements specified in 40 CFR Sections 60.4345.

**# 024 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4350]  
Subpart KKKK - Standards of Performance for Stationary Combustion Turbines  
How do I use data from the continuous emission monitoring equipment to identify excess emissions?**

The permittee shall comply with all applicable monitoring requirements specified in 40 CFR Sections 60.4350.

**# 025 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4360]  
Subpart KKKK - Standards of Performance for Stationary Combustion Turbines  
How do I determine the total sulfur content of the turbine's combustion fuel?**

The permittee shall comply with all applicable monitoring requirements specified in 40 CFR Sections 60.4360.

**# 026 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4370]  
Subpart KKKK - Standards of Performance for Stationary Combustion Turbines  
How often must I determine the sulfur content of the fuel?**

The permittee shall comply with all applicable monitoring requirements specified in 40 CFR Sections 60.4370.

**IV. RECORDKEEPING REQUIREMENTS.**

**# 027 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.**

(a) Pursuant to the best available control technology (BACT) of the Prevention of Significant Deterioration provisions in 40 CFR Section 52.21 and of 25 Pa. Code Section 127.83, as well as the best available technology (BAT) provisions in 25 Pa. Code Sections 127.1 and 127.12, the permittee shall monitor and keep records of the amount of fuel used each month in each of the combustion turbine and HRSG as well as the monthly heat input (MMBtu), power output (MW-hr) and hours of operation of each unit to verify compliance with the input-based BACT and BAT efficiency limitation.

(b) All information used to satisfy this recordkeeping requirement shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

**# 028 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.**

(a) The permittee shall keep accurate and comprehensive records of the nitrogen oxides, carbon monoxide, volatile organic compounds, greenhouse gasses, total hazardous air pollutants, sulfur oxides (SO<sub>2</sub>), sulfuric acid mist, total PM(filterable), total PM10(filterable and condensable), total PM2.5(filterable and condensable), formaldehyde, hexane, and toluene emissions including emissions calculations from each combustion turbine and HRSG, on a monthly basis, in order to demonstrate compliance with the emission limitations.

(b) All information used to satisfy this recordkeeping requirement shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

**# 029 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 139.101(5) and 139.101(12), 139.103, 139.108 or 139.111)]

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

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

(c) Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

**V. REPORTING REQUIREMENTS.**

**# 030 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.**

(a) The permittee shall submit semi-annual reports that include:

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(1) the nitrogen oxides, carbon monoxide, volatile organic compound, greenhouse gas, total hazardous air pollutants, sulfur oxides (SO<sub>2</sub>), sulfuric acid mist, total PM, total PM<sub>10</sub>, total PM<sub>2.5</sub>, formaldehyde, hexane, and toluene emissions including emissions calculations from each combustion turbine and HRSG, on a monthly basis, in order to demonstrate compliance with the emission limitations.

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

**# 031 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 139.101(1)(iv), 139.101(10) and 139.101(12), 139.103, 139.108 or 139.111]]

(a) The permittee shall submit quarterly reports of continuous emission monitoring to the Department in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), (and) the "Record Keeping and Reporting" requirements as established in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001.

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

(c) Initial quarterly reports following system certification shall be submitted to the Department within 35 days following the date upon which the Department notifies the owner or operator, in writing, of the approval of the continuous source monitoring system for use in determining compliance with applicable emission standards.

(d) Subsequent quarterly reports shall be submitted to the Department within 30 days after the end of each calendar quarter.

(e) Failure to submit required reports of continuous emission monitoring within the time periods specified in this Condition, shall constitute violations of this Permit, unless approved in advance by the Department in writing.

(f) Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

**# 032 [25 Pa. Code §145.204.]****Incorporation of Federal regulations by reference.**

(a) The permittee shall submit a complete NO<sub>x</sub> Budget permit application in accordance with 40 CFR Section 96.21(b)(1)(ii).

(b) The permittee shall submit a complete NO<sub>x</sub> Budget permit application in accordance with 40 CFR Section 97.21(b)(1)(ii).

**# 033 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]****Subpart A - General Provisions****Address.**

The submission of all requests, reports, applications, submittals and other communications required by this plan approval and federal regulations, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The Environmental Protection Agency copies may be sent to:

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

and

The Pennsylvania Department of Environmental Protection  
Air Quality Program Manager  
2 Public Square  
Wilkes Barre, PA 18701-1915



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**# 034 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4375]  
Subpart KKKK - Standards of Performance for Stationary Combustion Turbines  
What reports must I submit?**

The permittee shall comply with the applicable reporting requirements specified in 40 CFR Sections 60.4380.

**# 035 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4380]  
Subpart KKKK - Standards of Performance for Stationary Combustion Turbines  
How are excess emissions and monitor downtime defined for NOX ?**

The permittee shall comply with the applicable reporting requirements specified in 40 CFR Sections 60.4380.

**# 036 [40 CFR Part 72 Regulations on Permits §40 CFR 72.30]  
Subpart C--Acid Rain Permit Application  
Requirements to apply.**

The permittee shall submit a complete Acid Rain permit application in accordance with 40 CFR Section 72.30(b)(2)(ii).

**VI. WORK PRACTICE REQUIREMENTS.**

**# 037 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, high efficiency inlet air filters shall be used in the air inlet section of each combustion turbine (Source IDs 101, 102, and 103).

**# 038 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the permittee shall operate and maintain the stationary combustion turbine, heat recovery steam generator, duct burners and air pollution control equipment associated with Source IDs 101, 102, 103, 104, 105, and 106, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

**# 039 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, all air-contaminant sources and control devices shall be maintained and operated in a manner consistent with good air pollution control practices and in accordance with the manufacturers' recommendations and maintenance plan.

**# 040 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.**

Pursuant to the best available control technology of 40 CFR Section 52.21 and the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the heat input for each of the combined-cycle turbines shall not exceed 7,209 Btu/kW-hr (lower heating value), without duct burner firing. In order to demonstrate compliance the Permittee shall calculate the average net heat rate on an hourly basis consistent with equation F-20 and procedures provided in 40 CFR Part 75, Appendix F, § 5.5.2 and the results shall be corrected to ISO conditions (59 degrees F, 14.7 psia, and 67% humidity).

**# 041 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.**

Pursuant to the best available control technology of the Prevention of Significant Deterioration provisions in 40 CFR Section 52.21 and of 25 Pa. Code Section 127.83 and the lowest achievable emission rate of the New Source Review Regulation provisions in 25 Pa. Code Sections 127.201 through 127.217 as well as the best available technology provisions in 25 Pa. Code Sections 127.1 and 127.12, each combustion turbine associated with Source IDs 101, 102, and 103 shall be equipped with dry-low-NOx (DLN) combustors.

**# 042 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.**

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

(a) Continuous Emission Monitoring Systems and components must be operated and maintained in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources) and the "Quality Assurance" requirements in the Department's Continuous Source Monitoring Manual,

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Revision No. 8, 274-0300-001.

(b) Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

(c) Data Availability Standards: Continuous emission monitoring shall meet the following minimum data availability requirements:

1. In accordance with 25 Pa. Code Section 139.101(12), required monitoring shall, at a minimum, meet one of the following data availability requirements unless otherwise stipulated in this permit, a plan approval, Title 25 or an order issued under Section 4 of the Air Pollution Control Act:

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

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

2. Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with the regulations.

3. Emission Standard(s) To Which Data Availability Standard applies:

(a) CO (ppmvd)

(b) NOx (ppmvd)

(c) CO2 (lbs per MW-hr gross)

(d) Ammonia (ppmvd), if ammonia CEMS is installed

**# 043 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4333]**

**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines**

**What are my general requirements for complying with this subpart?**

[Additional authority for this plan approval condition is derived from 40 CFR Section 60.4333(a)]

The permittee shall operate and maintain the stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

**VII. ADDITIONAL REQUIREMENTS.**

**# 044 [25 Pa. Code §127.205]**

**Special permit requirements.**

The Department will not issue a plan approval, or an operating permit, or allow continued operations under an existing permit or plan approval unless the applicant demonstrates that the following special requirements are met:

(1) A new or modified facility subject to this subchapter shall comply with LAER, except as provided in § 127.203a(a)(2) (relating to applicability determination). When a facility is composed of several sources, only sources which are new or which are modified shall be required to implement LAER. In addition, LAER applies to the proposed modification which results in an increase in emissions and to subsequent or previous modifications which result in emissions increases that are directly related to and normally included in the project associated with the proposed modification and which occurred within the contemporaneous period of the proposed emissions increase.

(i) A project that does not commence construction within 18 months of the date specified in the plan approval shall be reevaluated for its compliance with LAER before the start of construction.

(ii) A project that discontinues construction for 18 months or more after construction is commenced shall be reevaluated for its compliance with LAER before resuming construction.

(iii) A project that does not complete construction within the time period specified in the plan approval shall be reevaluated for its compliance with LAER.

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- (iv) A project that is constructed in phases shall be reevaluated for its compliance with LAER if there is a delay of greater than 18 months beyond the projected and approved commencement date for each independent phase.
- (2) Each facility located within this Commonwealth which meets the requirements of and is subject to this subchapter, which is owned or operated by the applicant, or by an entity controlling, controlled by or under common control with the applicant, and which is subject to emissions limitations shall be in compliance, or on a schedule for compliance approved by the Department in a plan approval or permit, with the applicable emissions limitation and standards contained in this article. A responsible official of the applicant shall certify as to the facilities' compliance in writing on a form provided by the Department.
- (3) Each modification to a facility which meets the requirements of and is subject to this subchapter shall offset, in accordance with §§ 127.203, 127.203a and 127.210 (relating to facilities subject to special permit requirements; applicability determination; and offset ratios), the total of the net increase. Emissions offsets shall be required for the entire net emissions increase which occurred over the contemporaneous period except to the extent that emissions offsets or other reductions were previously applied against emissions increases in an earlier applicability determination.
- (4) Each new facility which meets the requirements of and is subject to this subchapter shall offset the potential to emit of that facility with ERCs in accordance with § 127.210.
- (5) For a new or modified facility which meets the requirements of and is subject to this subchapter, an analysis shall be conducted of alternative sites, sizes, production processes and environmental control techniques for the proposed facility, which demonstrates that the benefits of the proposed facility significantly outweigh the environmental and social costs imposed within this Commonwealth as a result of its location, construction or modification.
- (6) In the case of a new or modified facility which is located in a nonattainment area, and within a zone, identified by the EPA Administrator, in consultation with the Secretary of Housing and Urban Development, as a zone to which economic development should be targeted, emissions of a pollutant resulting from the proposed new or modified facility may not cause or contribute to emission levels which exceed the allowance permitted for the pollutant for the area from new or modified facilities in the SIP.
- (7) The Department may determine that the BAT requirements of this chapter are equivalent to BACT or LAER.

**# 045 [25 Pa. Code §145.204.]****Incorporation of Federal regulations by reference.**

- (a) The permittee shall comply with the applicable requirements of 40 CFR Part 96 and 25 Pa. Code Chapter 145 Subchapter D for each of the combustion turbines and HRSG.
- (b) The permittee shall comply with the applicable requirements of 40 CFR Part 97 for each of the combustion turbines and HRSG.

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GROUP 2

Group Description: Engines

Sources included in this group

ID	Name
109	EMERGENCY GENERATOR
110	FIRE PUMP ENGINE

**I. RESTRICTIONS.****Operation Hours Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, the duration of each time of operation of the engine for testing purposes of the engine-generator (Source ID 109) or the engine-pump (Source ID 110) shall not exceed 30 minutes or such other duration as dictated by utility practice or the manufacturer.

**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, there shall be no simultaneous testing of the engine-generator (Source ID 109) and the engine-pump (Source ID 110) within the same hour.

**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, testing of the engine-generator (Source ID 109) or the engine-pump (Source ID 110) shall not occur during (within the same hour as) startup or shutdown of the combustion turbines.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

(a) The permittee shall submit the monthly hours of operation for the engine-generator (Source ID 109) and the engine pump (Source ID 110) in order to demonstrate compliance with the operational limitations on a semi-annual basis.

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

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).



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**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GROUP 3

Group Description: Storage Tanks

Sources included in this group

ID	Name
201	LUBRICATING OIL SUMP CT #1 (10,000 GAL)
202	LUBRICATING OIL SUMP CT #2 (10,000 GAL)
203	LUBRICATING OIL SUMP CT #3 (10,000 GAL)
204	DIESEL STORAGE TANK EMERG. GEN. (3,500 GAL)
205	DIESEL STORAGE TANK FOR FIRE PUMP (300 GAL)
206	AQUEOUS AMMONIA STORAGE TANK (60,000 GAL)
207	LUBRICATING OIL SUMP STEAM TURBINE (10,000 GAL)

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall keep a record of the vapor pressure of the contents of each storage tank unless the respective tank is equipped with pressure relief valves that meets the requirement of Section E, Condition #002 below related to pressure release settings.

(b) The information used to demonstrate compliance with this permit condition shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.****# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Compliance with this streamlined permit condition assures compliance with the provisions of 25 Pa. Code § 129.57]

The permittee shall not store any liquid containing volatile organic compounds (VOC) with a vapor pressure greater than 1.5 psia (10.5 kilopascals) under actual storage conditions in each storage tank unless each of the tanks are equipped with pressure relief valve which is maintained in good operating condition and which are set to release at no less than 0.7 psig of pressure or 0.3 psig of vacuum, or the highest possible pressure and vacuum in accordance with state or local fire codes or the National Fire Prevention Association guidelines or other national consensus standards acceptable to the Department.

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GROUP 4

Group Description: Sources subject to CSAPR requirements

Sources included in this group

ID	Name
101	COMBUSTION TURBINE #1
102	COMBUSTION TURBINE #2
103	COMBUSTION TURBINE #3

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**III. MONITORING REQUIREMENTS.****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Description of Transport Rule (TR) Monitoring Provisions

The TR subject units, and the unit-specific monitoring provisions at this source, are identified below. These units are subject to the requirements for the TR NO<sub>x</sub> Annual Trading Program, TR NO<sub>x</sub> Ozone Season Trading Program and TR SO<sub>2</sub> Group 1 Trading Program.

UNIT 101 – COMBUSTION TURBINE #1, UNIT 102 – COMBUSTION TURBINE #2, AND UNIT 103 – COMBUSTION TURBINE #3:

SO<sub>2</sub>: Excepted monitoring system requirements for gas-and oil-fired units pursuant to 40 CFR Part 75, Appendix D

NO<sub>x</sub>: Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR Part 75, Subpart B (for NO<sub>x</sub> monitoring) and 40 CFR Part 75, Subpart H (for NO<sub>x</sub> monitoring)

HEAT INPUT: Excepted monitoring system requirements for gas-and oil-fired units pursuant to 40 CFR Part 75, Appendix D

1. The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR §§97.430 through 97.435 (TR NO<sub>x</sub> Annual Trading Program), and §§97.530 through 97.535 (TR NO<sub>x</sub> Ozone Season Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable TR trading programs.

2. Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR §§75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at <http://www.epa.gov/airmarkets/emissions/monitoringplans.html>.

3. Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR Part 75, Subpart E and 40 CFR §§75.66 and 97.435 (TR NO<sub>x</sub> Annual Trading Program), and §97.535 (TR NO<sub>x</sub> Ozone Season Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at <http://www.epa.gov/airmarkets/emissions/petitions.html>.

4. Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR §§97.430 through 97.434 (TR NO<sub>x</sub> Annual Trading Program), and §§97.530 through 97.534 (TR NO<sub>x</sub> Ozone Season Trading Program), must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR §§75.66 and 97.435 (TR NO<sub>x</sub> Annual Trading Program), and §97.535 (TR NO<sub>x</sub> Ozone Season Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring,

**SECTION E. Source Group Plan Approval Restrictions.**

recordkeeping, or reporting requirement is available on EPA's website at <http://www.epa.gov/airmarkets/emissions/petitions.html>.

5. The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR §§97.430 through 97.434 (TR NOx Annual Trading Program), and §§97.530 through 97.534 (TR NOx Ozone Season Trading Program), and therefore minor permit modification procedures, in accordance with 40 CFR §70.7(e)(2)(i)(B) or §71.7(e)(1)(i)(B), may be used to add to or change this unit's monitoring system description.

**IV. RECORDKEEPING REQUIREMENTS.**

**# 002 [25 Pa. Code §127.12b]**  
**Plan approval terms and conditions.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**V. REPORTING REQUIREMENTS.**

**# 003 [25 Pa. Code §127.12b]**  
**Plan approval terms and conditions.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

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

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VII. ADDITIONAL REQUIREMENTS.**

**# 005 [25 Pa. Code §127.12b]**  
**Plan approval terms and conditions.**

Transport Rule (TR) NOx Annual Trading Program requirements (40 CFR 97.406)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR §§97.413 through 97.418.

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

(1) The owners and operators, and the designated representative, of each TR NOx Annual source and each TR NOx Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR §§97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR §§97.430 through 97.435 shall be used to calculate allocations of TR NOx Annual allowances under 40 CFR §§97.411(a)(2) and (b) and 97.412 and to determine compliance with the TR NOx Annual emissions limitation and assurance provisions under paragraph (c), below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR §§97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NOx emissions requirements.

(1) TR NOx Annual emissions limitation.



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(i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NOx Annual source and each TR NOx Annual unit at the source shall hold, in the source's compliance account, TR NOx Annual allowances available for deduction for such control period under 40 CFR §97.424(a) in an amount not less than the tons of total NOx emissions for such control period from all TR NOx Annual units at the source.

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

(A) The owners and operators of the source and each TR NOx Annual unit at the source shall hold the TR NOx Annual allowances required for deduction under 40 CFR §97.424(d); and

(B) The owners and operators of the source and each TR NOx Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart AAAAA and the Clean Air Act.

(2) TR NOx Annual assurance provisions.

(i) If total NOx emissions during a control period in a given year from all TR NOx Annual units at TR NOx Annual sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NOx emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NOx Annual allowances available for deduction for such control period under 40 CFR §97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR §97.425(b), of multiplying:

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

(B) The amount by which total NOx emissions from all TR NOx Annual units at TR NOx Annual sources in the state for such control period exceed the state assurance level.

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

(iii) Total NOx emissions from all TR NOx Annual units at TR NOx Annual sources in the State during a control period in a given year exceed the state assurance level if such total NOx emissions exceed the sum, for such control period, of the state NOx Annual trading budget under 40 CFR §97.410(a) and the state's variability limit under 40 CFR §97.410(b).

(iv) It shall not be a violation of 40 CFR Part 97, Subpart AAAAA or of the Clean Air Act if total NOx emissions from all TR NOx Annual units at TR NOx Annual sources in the State during a control period exceed the state assurance level or if a common designated representative's share of total NOx emissions from the TR NOx Annual units at TR NOx Annual sources in the state during a control period exceeds the common designated representative's assurance level.

(v) To the extent the owners and operators fail to hold TR NOx Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii), above,

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

(B) Each TR NOx Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii), above, and each day of such control period shall constitute a separate violation of 40 CFR

**SECTION E. Source Group Plan Approval Restrictions.**

Part 97, Subpart AAAAA and the Clean Air Act.

(3) Compliance periods.

(i) A TR NOx Annual unit shall be subject to the requirements under paragraph (c)(1), above, for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR §97.430(b) and for each control period thereafter.

(ii) A TR NOx Annual unit shall be subject to the requirements under paragraph (c)(2), above, for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR §97.430(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i) A TR NOx Annual allowance held for compliance with the requirements under paragraph (c)(1)(i), above, for a control period in a given year must be a TR NOx Annual allowance that was allocated for such control period or a control period in a prior year.

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

(5) Allowance Management System requirements. Each TR NOx Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart AAAAA.

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

(i) Such authorization shall only be used in accordance with the TR NOx Annual Trading Program; and

(ii) Notwithstanding any other provision of 40 CFR Part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR NOx Annual allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No Title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NOx Annual allowances in accordance with 40 CFR Part 97, Subpart AAAAA.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR §§97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR §75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this Title V permit using minor permit modification procedures in accordance with 40 CFR §§97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

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

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(i) The certificate of representation under 40 CFR §97.416 for the designated representative for the source and each TR NOx Annual unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR §97.416 changing the designated representative.

(ii) All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart AAAAA.

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

(2) The designated representative of a TR NOx Annual source and each TR NOx Annual unit at the source shall make all submissions required under the TR NOx Annual Trading Program, except as provided in 40 CFR §97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a Title V operating permit program in 40 CFR Parts 70 and 71.

(f) Liability.

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

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

(g) Effect on other authorities.

No provision of the TR NOx Annual Trading Program or exemption under 40 CFR §97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NOx Annual source or TR NOx Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Transport Rule (TR) NOx Ozone Season Trading Program Requirements (40 CFR §97.506)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 §§CFR 97.513 through 97.518.

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

(1) The owners and operators, and the designated representative, of each TR NOx Ozone Season source and each TR NOx Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR §§97.530 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.531 (initial monitoring system certification and recertification procedures), 97.532 (monitoring system out-of-control periods), 97.533 (notifications concerning monitoring), 97.534 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.535 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR §§97.530 through 97.535 shall be used to calculate allocations of TR NOx Ozone Season allowances under 40 CFR §§97.511(a)(2) and (b) and 97.512 and to determine compliance with the TR NOx Ozone Season emissions limitation and assurance provisions under paragraph (c), below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR §§97.530 through 97.535 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NOx emissions requirements.

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(1) TR NO<sub>x</sub> Ozone Season emissions limitation.

(i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO<sub>x</sub> Ozone Season source and each TR NO<sub>x</sub> Ozone Season unit at the source shall hold, in the source's compliance account, TR NO<sub>x</sub> Ozone Season allowances available for deduction for such control period under 40 CFR §97.524(a) in an amount not less than the tons of total NO<sub>x</sub> emissions for such control period from all TR NO<sub>x</sub> Ozone Season units at the source.

(ii) If total NO<sub>x</sub> emissions during a control period in a given year from the TR NO<sub>x</sub> Ozone Season units at a TR NO<sub>x</sub> Ozone Season source are in excess of the TR NO<sub>x</sub> Ozone Season emissions limitation set forth in paragraph (c)(1)(i), above, then:

(A) The owners and operators of the source and each TR NO<sub>x</sub> Ozone Season unit at the source shall hold the TR NO<sub>x</sub> Ozone Season allowances required for deduction under 40 CFR §97.524(d); and

(B) The owners and operators of the source and each TR NO<sub>x</sub> Ozone Season unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart BBBBB and the Clean Air Act.

(2) TR NO<sub>x</sub> Ozone Season assurance provisions.

(i) If total NO<sub>x</sub> emissions during a control period in a given year from all TR NO<sub>x</sub> Ozone Season units at TR NO<sub>x</sub> Ozone Season sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO<sub>x</sub> emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO<sub>x</sub> Ozone Season allowances available for deduction for such control period under 40 CFR §97.525(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.525(b), of multiplying:

(A) The quotient of the amount by which the common designated representative's share of such NO<sub>x</sub> emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO<sub>x</sub> emissions exceeds the respective common designated representative's assurance level; and

(B) The amount by which total NO<sub>x</sub> emissions from all TR NO<sub>x</sub> Ozone Season units at TR NO<sub>x</sub> Ozone Season sources in the state for such control period exceed the state assurance level.

(ii) The owners and operators shall hold the TR NO<sub>x</sub> Ozone Season allowances required under paragraph (c)(2)(i), above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii) Total NO<sub>x</sub> emissions from all TR NO<sub>x</sub> Ozone Season units at TR NO<sub>x</sub> Ozone Season sources in the state during a control period in a given year exceed the state assurance level if such total NO<sub>x</sub> emissions exceed the sum, for such control period, of the State NO<sub>x</sub> Ozone Season trading budget under 40 CFR §97.510(a) and the state's variability limit under 40 CFR §97.510(b).

(iv) It shall not be a violation of 40 CFR Part 97, Subpart BBBBB or of the Clean Air Act if total NO<sub>x</sub> emissions from all TR NO<sub>x</sub> Ozone Season units at TR NO<sub>x</sub> Ozone Season sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total NO<sub>x</sub> emissions from the TR NO<sub>x</sub> Ozone Season units at TR NO<sub>x</sub> Ozone Season sources in the state during a control period exceeds the common designated representative's assurance level.

(v) To the extent the owners and operators fail to hold TR NO<sub>x</sub> Ozone Season allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii), above:

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

**SECTION E. Source Group Plan Approval Restrictions.**

the Clean Air Act; and

(B) Each TR NOx Ozone Season allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii), above, and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart BBBBB and the Clean Air Act.

(3) Compliance periods.

(i) A TR NOx Ozone Season unit shall be subject to the requirements under paragraph (c)(1), above, for the control period starting on the later of May 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR §97.530(b) and for each control period thereafter.

(ii) A TR NOx Ozone Season unit shall be subject to the requirements under paragraph (c)(2), above, for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR §97.530(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i) A TR NOx Ozone Season allowance held for compliance with the requirements under paragraph (c)(1)(i), above, for a control period in a given year must be a TR NOx Ozone Season allowance that was allocated for such control period or a control period in a prior year.

(ii) A TR NOx Ozone Season allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii), above, for a control period in a given year must be a TR NOx Ozone Season allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR NOx Ozone Season allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart BBBBB.

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

(i) Such authorization shall only be used in accordance with the TR NOx Ozone Season Trading Program; and

(ii) Notwithstanding any other provision of 40 CFR Part 97, Subpart BBBBB, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR NOx Ozone Season allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No Title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NOx Ozone Season allowances in accordance with 40 CFR Part 97, Subpart BBBBB.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR §§97.530 through 97.535, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an excepted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR §75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this Title V permit using minor permit modification procedures in accordance with 40 CFR §§97.506(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each TR NOx Ozone Season source and each TR NOx Ozone Season unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic

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format) for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Administrator.

(i) The certificate of representation under 40 CFR §97.516 for the designated representative for the source and each TR NOx Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR §97.516 changing the designated representative.

(ii) All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart BBBB.

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

(2) The designated representative of a TR NOx Ozone Season source and each TR NOx Ozone Season unit at the source shall make all submissions required under the TR NOx Ozone Season Trading Program, except as provided in 40 CFR §97.518. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a Title V operating permit program in 40 CFR Parts 70 and 71.

(f) Liability.

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

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

(g) Effect on other authorities.

No provision of the TR NOx Ozone Season Trading Program or exemption under 40 CFR §97.505 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NOx Ozone Season source or TR NOx Ozone Season unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

**# 007 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

TR SO2 Group 1 Trading Program requirements (40 CFR §97.606)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR §§97.613 through 97.618.

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

(1) The owners and operators, and the designated representative, of each TR SO2 Group 1 source and each TR SO2 Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR §§97.630 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.631 (initial monitoring system certification and recertification procedures), 97.632 (monitoring system out-of-control periods), 97.633 (notifications concerning monitoring), 97.634 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR §§97.630 through 97.635 shall be used to calculate allocations of TR SO2 Group 1 allowances under 40 CFR §§97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO2 Group 1 emissions limitation and assurance provisions under paragraph (c), below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR §§97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than



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0.50 being deemed to be zero.

(c) SO<sub>2</sub> emissions requirements.

(1) TR SO<sub>2</sub> Group 1 emissions limitation.

(i) As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO<sub>2</sub> Group 1 source and each TR SO<sub>2</sub> Group 1 unit at the source shall hold, in the source's compliance account, TR SO<sub>2</sub> Group 1 allowances available for deduction for such control period under 40 CFR §97.624(a) in an amount not less than the tons of total SO<sub>2</sub> emissions for such control period from all TR SO<sub>2</sub> Group 1 units at the source.

(ii) If total SO<sub>2</sub> emissions during a control period in a given year from the TR SO<sub>2</sub> Group 1 units at a TR SO<sub>2</sub> Group 1 source are in excess of the TR SO<sub>2</sub> Group 1 emissions limitation set forth in paragraph (c)(1)(i), above, then:

(A) The owners and operators of the source and each TR SO<sub>2</sub> Group 1 unit at the source shall hold the TR SO<sub>2</sub> Group 1 allowances required for deduction under 40 CFR §97.624(d); and

(B) The owners and operators of the source and each TR SO<sub>2</sub> Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation 40 CFR Part 97, Subpart CCCCC and the Clean Air Act.

(2) TR SO<sub>2</sub> Group 1 assurance provisions.

(i) If total SO<sub>2</sub> emissions during a control period in a given year from all TR SO<sub>2</sub> Group 1 units at TR SO<sub>2</sub> Group 1 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO<sub>2</sub> emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR SO<sub>2</sub> Group 1 allowances available for deduction for such control period under 40 CFR §97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR §97.625(b), of multiplying:

(A) The quotient of the amount by which the common designated representative's share of such SO<sub>2</sub> emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such SO<sub>2</sub> emissions exceeds the respective common designated representative's assurance level; and

(B) The amount by which total SO<sub>2</sub> emissions from all TR SO<sub>2</sub> Group 1 units at TR SO<sub>2</sub> Group 1 sources in the state for such control period exceed the state assurance level.

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

(iii) Total SO<sub>2</sub> emissions from all TR SO<sub>2</sub> Group 1 units at TR SO<sub>2</sub> Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO<sub>2</sub> emissions exceed the sum, for such control period, of the state SO<sub>2</sub> Group 1 trading budget under 40 CFR §97.610(a) and the state's variability limit under 40 CFR §97.610(b).

(iv) It shall not be a violation of 40 CFR Part 97, Subpart CCCCC or of the Clean Air Act if total SO<sub>2</sub> emissions from all TR SO<sub>2</sub> Group 1 units at TR SO<sub>2</sub> Group 1 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total SO<sub>2</sub> emissions from the TR SO<sub>2</sub> Group 1 units at TR SO<sub>2</sub> Group 1 sources in the state during a control period exceeds the common designated representative's assurance level.

(v) To the extent the owners and operators fail to hold TR SO<sub>2</sub> Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii), above:

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

(B) Each TR SO<sub>2</sub> Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii), above and each day of such control period shall constitute a separate violation of 40 CFR Part 97, Subpart CCCCC and the Clean Air Act.

(3) Compliance periods.

(i) A TR SO<sub>2</sub> Group 1 unit shall be subject to the requirements under paragraph (c)(1), above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR §97.630(b) and for each control period thereafter.

(ii) A TR SO<sub>2</sub> Group 1 unit shall be subject to the requirements under paragraph (c)(2), above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR §97.630(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i) A TR SO<sub>2</sub> Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i), above for a control period in a given year must be a TR SO<sub>2</sub> Group 1 allowance that was allocated for such control period or a control period in a prior year.

(ii) A TR SO<sub>2</sub> Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii), above, for a control period in a given year must be a TR SO<sub>2</sub> Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR SO<sub>2</sub> Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR Part 97, Subpart CCCCC.

(6) Limited authorization. A TR SO<sub>2</sub> Group 1 allowance is a limited authorization to emit one ton of SO<sub>2</sub> during the control period in one year. Such authorization is limited in its use and duration as follows:

(i) Such authorization shall only be used in accordance with the TR SO<sub>2</sub> Group 1 Trading Program; and

(ii) Notwithstanding any other provision of 40 CFR Part 97, Subpart CCCCC, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR SO<sub>2</sub> Group 1 allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No Title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR SO<sub>2</sub> Group 1 allowances in accordance with 40 CFR Part 97, Subpart CCCCC.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR §§97.630 through 97.635, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR Part 75, Subparts B and H), an exempted monitoring system (pursuant to 40 CFR Part 75, Appendices D and E), a low mass emissions exempted monitoring methodology (pursuant to 40 CFR Part 75.19), and an alternative monitoring system (pursuant to 40 CFR Part 75, Subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this Title V permit using minor permit modification procedures in accordance with 40 CFR §§97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

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



**SECTION E. Source Group Plan Approval Restrictions.**

years, in writing by the Administrator.

(i) The certificate of representation under 40 CFR §97.616 for the designated representative for the source and each TR SO<sub>2</sub> Group 1 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR §97.616 changing the designated representative.

(ii) All emissions monitoring information, in accordance with 40 CFR Part 97, Subpart CCCCC.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR SO<sub>2</sub> Group 1 Trading Program.

(2) The designated representative of a TR SO<sub>2</sub> Group 1 source and each TR SO<sub>2</sub> Group 1 unit at the source shall make all submissions required under the TR SO<sub>2</sub> Group 1 Trading Program, except as provided in 40 CFR §97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a Title V operating permit program in 40 CFR Parts 70 and 71.

(f) Liability.

(1) Any provision of the TR SO<sub>2</sub> Group 1 Trading Program that applies to a TR SO<sub>2</sub> Group 1 source or the designated representative of a TR SO<sub>2</sub> Group 1 source shall also apply to the owners and operators of such source and of the TR SO<sub>2</sub> Group 1 units at the source.

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

(g) Effect on other authorities.

No provision of the TR SO<sub>2</sub> Group 1 Trading Program or exemption under 40 CFR §97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR SO<sub>2</sub> Group 1 source or TR SO<sub>2</sub> Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan (SIP), a federally enforceable permit, or the Clean Air Act.

**# 008 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The Group 003 combustion turbines are subject to the Transport Rule (TR) Trading Program Title V Requirements outlined in this Source Group.

(b) The Transport Rule (TR) is also known as the "Cross-State Air Pollution Rule" (CSAPR). It includes the regulations found at 40 CFR §§52.38, 52.39, 52.2040 and 52.2041, and 40 CFR Part 97, Subparts AAAAA, BBBBB and CCCCC (relating to TR NO<sub>x</sub> Annual trading program; TR NO<sub>x</sub> Ozone Season trading program; and TR SO<sub>2</sub> Group 1 trading program).



**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.



**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



**SECTION H. Miscellaneous.**



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

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