



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date:

Effective Date:

Expiration Date:

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. 35-00069A

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 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 with all three (3) CT/HRSG sharing 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 MMBTU/hr natural gas fired boiler
- one (1) 12 MMBTU/hr natural gas fuel gas heater
- two (2) Diesel fuel storage tanks
- three (3) 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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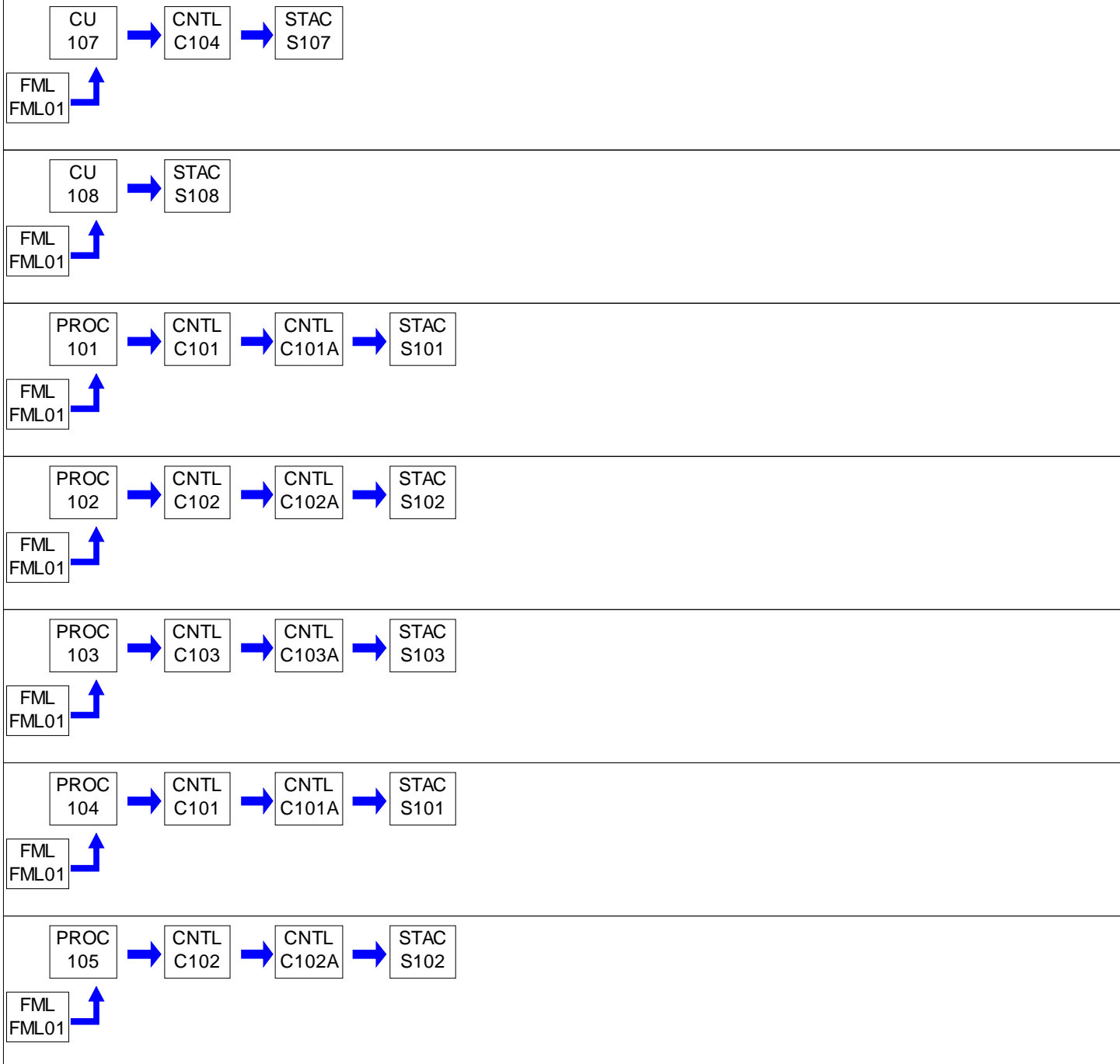
Section H. Miscellaneous

**SECTION A. Plan Approval Inventory List**

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	637.900 MMBTU/HR	
		659,710.000 CF/HR	Natural Gas
105	DUCT BURNER- HRSG #2	637.900 MMBTU/HR	
		659,710.000 CF/HR	Natural Gas
106	DUCT BURNER - HRSG #3	637.900 MMBTU/HR	
		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 #1 (10,000 GAL)		
202	LUBRICATING OIL SUMP #2 (10,000 GAL)		
203	LUBRICATING OIL SUMP #3 (10,000 GAL)		
204	DIESEL STORAGE TANK EMERG. GEN. (3,500 GAL)		
205	DIESEL STORAGE TANK FIRE PUMP (300 GAL)		
206	AQUEOUS AMMONIA STORAGE TANK (60,000 GAL)		
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		

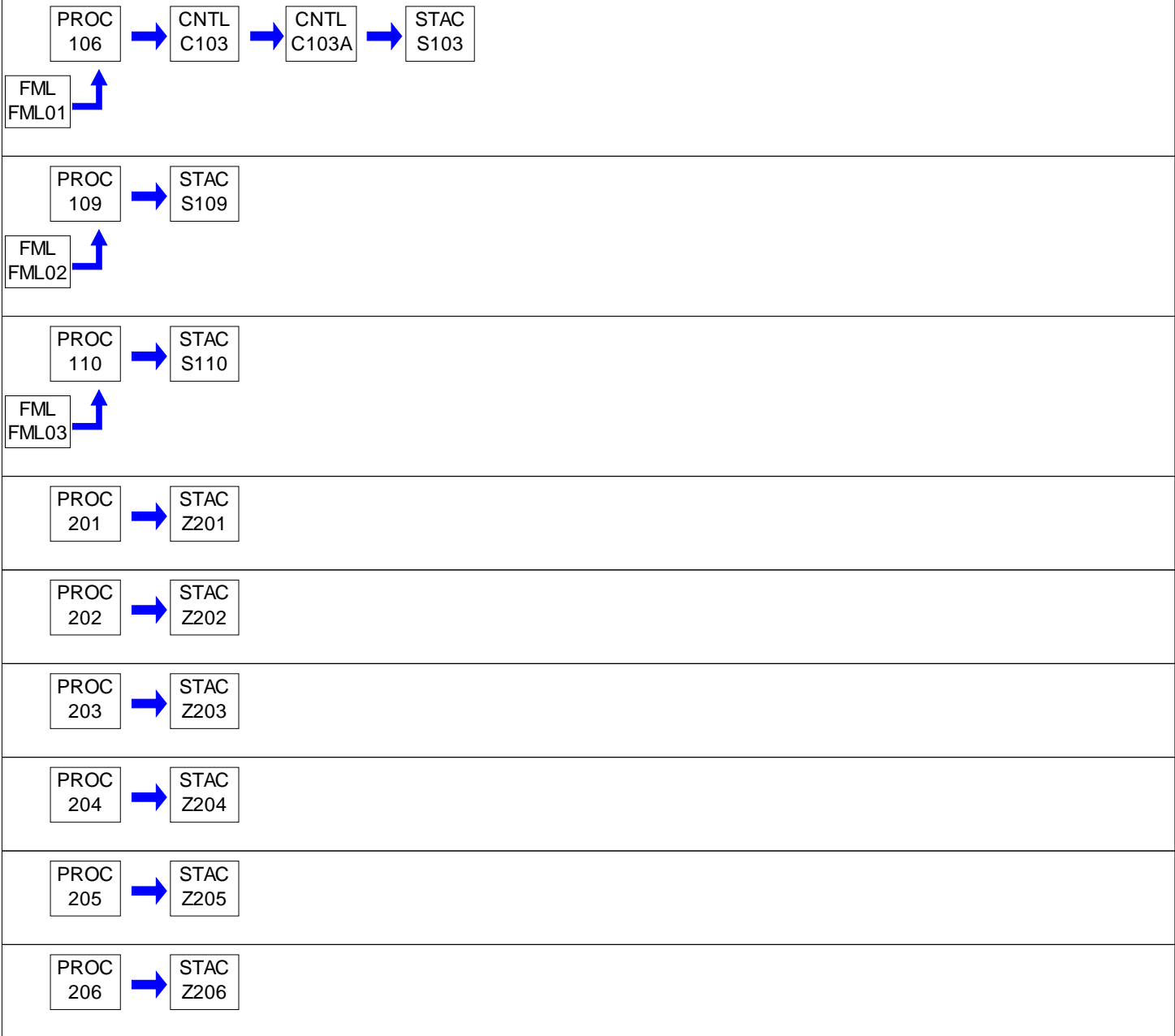
**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
Z203	FUGITIVE SOURCE ID 203		
Z204	FUGITIVE SOURCE ID 204		
Z205	FUGITIVE SOURCE ID 205		
Z206	FUGITIVE SOURCE ID 206		

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 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
- (d) 22.8 tons of total hazardous air pollutants in any 12 consecutive month period

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

- (e) 73.1 tons of total PM, 147.5 TPY PM10(including condensable PM), and 147.5 TPY PM2.5(including condensable PM) in any 12 consecutive month period
- (f) 39.9 tons of sulfur oxides (as sulfur dioxide) in any 12 consecutive month period
- (g) 31.2 tons of sulfuric acid mist in any 12 consecutive month period
- (h) 4,938,598 tons of greenhouse gases in any 12 consecutive month period.
- (i) 0.031 TPY Pb

007 [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 combined total sulfur hexafluoride (SF6) 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.
- (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/ecommm/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

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

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, CO₂, O₂ and N₂), 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.

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:

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- (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 (SO₂), sulfuric acid mist, total PM, total PM₁₀, total PM_{2.5}, ammonia, and sulfur hexafluoride (SF₆) 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 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 (SF₆) 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 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

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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 compound, greenhouse gas, total hazardous air pollutants, sulfur oxides (SO₂), sulfuric acid mist, total PM, total PM₁₀, total PM_{2.5}, ammonia, and sulfur hexafluoride (SF₆) 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 (SF₆) 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 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,

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- (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.

Director
Air Protection Section
Mail Code 3AP00
US EPA, Region III
1650 Arch Street
Philadelphia, PA 19101-2029

PA DEP
Air Quality Program
2 Public Square
Wilkes-Barre, PA 18701-1915

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.

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



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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**

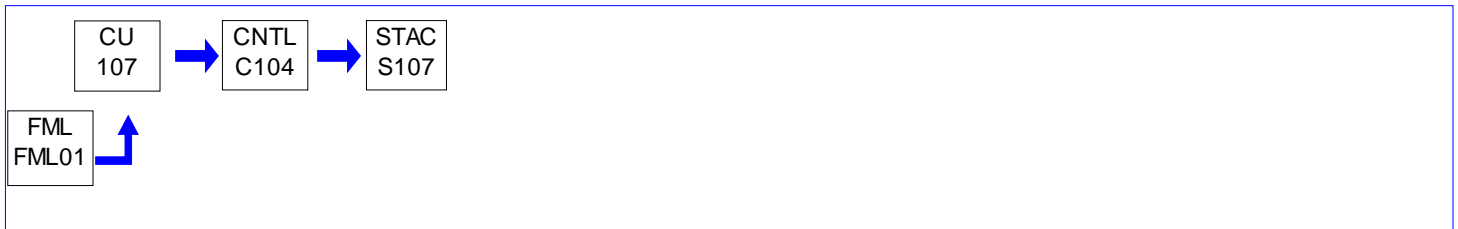
Source ID: 107

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.**

[Compliance with this streamlined permit condition will assure compliance with the provisions of 25 Pa. Code §§ 123.11(a)(2) and 123.22(b)(1) and 40 CFR 60.44b(a)]

Pursuant to the best available technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the air contaminant emissions from the exhaust of the boiler, Source ID 107, shall not exceed the following limitations:

- (a) Nitrogen Oxides (expressed as NO₂) – 0.006 lb/mmmbtu;
- (b) Sulfur Dioxide (expressed as SO₂) – 0.0011 lb/mmmbtu;
- (c) Particulate matter - PM(filterable) 0.002 lb/mmmbtu,
- (d) PM₁₀ (filterable and condensable) – 0.007 lb/mmmbtu,
- (e) PM_{2.5} (filterable and condensable) – 0.007 lb/mmmbtu,
- (f) CO: 0.037 lb/mmmbtu
- (g) VOC: 0.005 lb/mmmbtu
- (h) H₂SO₄: 0.00014 lb/mmmbtu

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_x 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_x 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.

Control Device Efficiency Restriction(s).**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

BAT for the boiler shall be use of ultra low NO_x burners.

II. TESTING REQUIREMENTS.**# 005 [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.**

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

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

**# 006 [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.

**# 007 [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 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.

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- (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.

008 [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(D), 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 22 out of 30 successive operating days.

009 [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.

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 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

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pursuant to §60.49b(c).

**# 011 [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.

**# 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.**

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 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.

**# 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.**

- (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),

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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) Notification that an emerging technology will be used for controlling emissions of SO₂. The Administrator will examine the description of the emerging technology and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of §60.42b(a) unless and until this determination is made by the Administrator.

(b) The owner or operator of each affected facility subject to the SO₂, PM, and/or NO_x 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_x 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_x 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 O₂ level);

(2) Include the data and information that the owner or operator used to identify the relationship between NO_x 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 average basis with a new annual capacity factor calculated at the end of each calendar month.

(e) For an affected facility that combusts residual oil and meets the criteria under §§60.46b(e)(4), 60.44b(j), or (k), the owner or operator shall maintain records of the nitrogen content of the residual oil combusted in the affected facility and calculate the average fuel nitrogen content for the reporting period. The nitrogen content shall be determined using ASTM Method D4629 (incorporated by reference, see §60.17), or fuel suppliers. If residual oil blends are being combusted, fuel nitrogen specifications may be prorated based on the ratio of residual oils of different nitrogen content in the fuel blend.

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

(1) Calendar date;

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- (2) The average hourly NOX emission rates (expressed as NO₂) (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.
 - (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) The owner or operator of any affected facility subject to the SO₂ standards under §60.42b shall submit reports.
 - (k) For each affected facility subject to the compliance and performance testing requirements of §60.45b and the reporting requirement in paragraph (j) of this section, the following information shall be reported to the Administrator:
 - (1) Calendar dates covered in the reporting period;

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

- (2) Each 30-day average SO₂ emission rate (ng/J or lb/MMBtu heat input) measured during the reporting period, ending with the last 30-day period; reasons for noncompliance with the emission standards; and a description of corrective actions taken;
 - (3) Each 30-day average percent reduction in SO₂ emissions calculated during the reporting period, ending with the last 30-day period; reasons for noncompliance with the emission standards; and a description of corrective actions taken;
 - (4) Identification of the steam generating unit operating days that coal or oil was combusted and for which SO₂ or diluent (O₂ or CO₂) data have not been obtained by an approved method for at least 75 percent of the operating hours in the steam generating unit operating day; justification for not obtaining sufficient data; and description of corrective action taken;
 - (5) Identification of the times when emissions data have been excluded from the calculation of average emission rates; justification for excluding data; and description of corrective action taken if data have been excluded for periods other than those during which coal or oil were not combusted in the steam generating unit;
 - (6) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;
 - (7) Identification of times when hourly averages have been obtained based on manual sampling methods;
 - (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;
 - (10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of this part; and
 - (11) The annual capacity factor of each fired as provided under paragraph (d) of this section.
- (l) For each affected facility subject to the compliance and performance testing requirements of §60.45b(d) and the reporting requirements of paragraph (j) of this section, the following information shall be reported to the Administrator:
- (1) Calendar dates when the facility was in operation during the reporting period;
 - (2) The 24-hour average SO₂ emission rate measured for each steam generating unit operating day during the reporting period that coal or oil was combusted, ending in the last 24-hour period in the quarter; reasons for noncompliance with the emission standards; and a description of corrective actions taken;
 - (3) Identification of the steam generating unit operating days that coal or oil was combusted for which SO₂ or diluent (O₂ or CO₂) data have not been obtained by an approved method for at least 75 percent of the operating hours; justification for not obtaining sufficient data; and description of corrective action taken;
 - (4) Identification of the times when emissions data have been excluded from the calculation of average emission rates; justification for excluding data; and description of corrective action taken if data have been excluded for periods other than those during which coal or oil were not combusted in the steam generating unit;
 - (5) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;
 - (6) Identification of times when hourly averages have been obtained based on manual sampling methods;
 - (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 Specification 2 or 3; and
 - (9) Results of daily CEMS drift tests and quarterly accuracy assessments as required under Procedure 1 of appendix F 1 of

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

this part. If the owner or operator elects to implement the alternative data assessment procedures described in §§60.47b(e)(4)(i) through (e)(4)(iii), each data assessment report shall include a summary of the results of all of the RATAs, linearity checks, CGAs, and calibration error or drift assessments required by §§60.47b(e)(4)(i) through (e)(4)(iii).

(m) For each affected facility subject to the SO₂ standards under §60.42(b) for which the minimum amount of data required under §60.47b(f) were not obtained during the reporting period, the following information is reported to the Administrator in addition to that required under paragraph (k) of this section:

- (1) The number of hourly averages available for outlet emission rates and inlet emission rates;
- (2) The standard deviation of hourly averages for outlet emission rates and inlet emission rates, as determined in Method 19 of appendix A of this part, section 7;
- (3) The lower confidence limit for the mean outlet emission rate and the upper confidence limit for the mean inlet emission rate, as calculated in Method 19 of appendix A of this part, section 7; and
- (4) The ratio of the lower confidence limit for the mean outlet emission rate and the allowable emission rate, as determined in Method 19 of appendix A of this part, section 7.

(n) If a percent removal efficiency by fuel pretreatment (i.e., %R_f) is used to determine the overall percent reduction (i.e., %R_o) under §60.45b, the owner or operator of the affected facility shall submit a signed statement with the report.

- (1) Indicating what removal efficiency by fuel pretreatment (i.e., %R_f) was credited during the reporting period;
- (2) Listing the quantity, heat content, and date each pre-treated fuel shipment was received during the reporting period, the name and location of the fuel pretreatment facility; and the total quantity and total heat content of all fuels received at the affected facility during the reporting period;
- (3) Documenting the transport of the fuel from the fuel pretreatment facility to the steam generating unit; and
- (4) Including a signed statement from the owner or operator of the fuel pretreatment facility certifying that the percent removal efficiency achieved by fuel pretreatment was determined in accordance with the provisions of Method 19 of appendix A of this part and listing the heat content and sulfur content of each fuel before and after fuel pretreatment.

(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) The average fuel nitrogen content during the reporting period, if residual oil was fired; and
- (3) If the affected facility meets the criteria described in §60.44b(j), the results of any NO_x emission tests required during the reporting period, the hours of operation during the reporting period, and the hours of operation since the last NO_x emission test.

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

(r) The owner or operator of an affected facility who elects to use the fuel based compliance alternatives in §60.42b or §60.43b shall either:

(1) The owner or operator of an affected facility who elects to demonstrate that the affected facility combusts only very low sulfur oil under §60.42b(j)(2) or §60.42b(k)(2) shall obtain and maintain at the affected facility fuel receipts from the fuel supplier that certify that the oil meets the definition of distillate oil as defined in §60.41b and the applicable sulfur limit. For the purposes of this section, the distillate oil need not meet the fuel nitrogen content specification in the definition of distillate oil. Reports shall be submitted to the Administrator certifying that only very low sulfur oil meeting this definition and/or pipeline quality natural gas was combusted in the affected facility during the reporting period; or

(2) The owner or operator of an affected facility who elects to demonstrate compliance based on fuel analysis in §60.42b or §60.43b shall develop and submit a site-specific fuel analysis plan to the Administrator for review and approval no later than 60 days before the date you intend to demonstrate compliance. Each fuel analysis plan shall include a minimum initial requirement of weekly testing and each analysis report shall contain, at a minimum, the following information:

(i) The potential sulfur emissions rate of the representative fuel mixture in ng/J heat input;

(ii) The method used to determine the potential sulfur emissions rate of each constituent of the mixture. For distillate oil and natural gas a fuel receipt or tariff sheet is acceptable;

(iii) The ratio of different fuels in the mixture; and

(iv) The owner or operator can petition the Administrator to approve monthly or quarterly sampling in place of weekly sampling.

(s) Facility specific NOX standard for Cytec Industries Fortier Plant's C.AOG incinerator located in Westwego, Louisiana:

(1) Definitions.

Oxidation zone is defined as the portion of the C.AOG incinerator that extends from the inlet of the oxidizing zone combustion air to the outlet gas stack.

Reducing zone is defined as the portion of the C.AOG incinerator that extends from the burner section to the inlet of the oxidizing zone combustion air.

Total inlet air is defined as the total amount of air introduced into the C.AOG incinerator for combustion of natural gas and chemical by-product waste and is equal to the sum of the air flow into the reducing zone and the air flow into the oxidation zone.

(2) Standard for nitrogen oxides.

(i) When fossil fuel alone is combusted, the NOX emission limit for fossil fuel in §60.44b(a)(i) applies.

(ii) When natural gas and chemical by-product waste are simultaneously combusted, the NOX emission limit is 289 ng/J (0.67 lb/MMBtu) and a maximum of 81 percent of the total inlet air provided for combustion shall be provided to the reducing zone of the C.AOG incinerator.

(3) Emission monitoring.

(i) The percent of total inlet air provided to the reducing zone shall be determined at least every 15 minutes by measuring the air flow of all the air entering the reducing zone and the air flow of all the air entering the oxidation zone, and compliance with the percentage of total inlet air that is provided to the reducing zone shall be determined on a 3-hour average basis.

(ii) The NOX emission limit shall be determined by the compliance and performance test methods and procedures for NOX in §60.46b(i).

(iii) The monitoring of the NOX emission limit shall be performed in accordance with §60.48b.

**SECTION D. Source Level Plan Approval Requirements****(4) Reporting and recordkeeping requirements.**

(i) The owner or operator of the C.AOG incinerator shall submit a report on any excursions from the limits required by paragraph (a)(2) of this section to the Administrator with the quarterly report required by paragraph (i) of this section.

(ii) The owner or operator of the C.AOG incinerator shall keep records of the monitoring required by paragraph (a)(3) of this section for a period of 2 years following the date of such record.

(iii) The owner or operator of the C.AOG incinerator shall perform all the applicable reporting and recordkeeping requirements of this section.

(t) Facility-specific NOX standard for Rohm and Haas Kentucky Incorporated's Boiler No. 100 located in Louisville, Kentucky:

(1) Definitions.

Air ratio control damper is defined as the part of the low NOX burner that is adjusted to control the split of total combustion air delivered to the reducing and oxidation portions of the combustion flame.

Flue gas recirculation line is defined as the part of Boiler No. 100 that recirculates a portion of the boiler flue gas back into the combustion air.

(2) Standard for nitrogen oxides.

(i) When fossil fuel alone is combusted, the NOX emission limit for fossil fuel in §60.44b(a) applies.

(ii) When fossil fuel and chemical by-product waste are simultaneously combusted, the NOX emission limit is 473 ng/J (1.1 lb/MMBtu), and the air ratio control damper tee handle shall be at a minimum of 5 inches (12.7 centimeters) out of the boiler, and the flue gas recirculation line shall be operated at a minimum of 10 percent open as indicated by its valve opening position indicator.

(3) Emission monitoring for nitrogen oxides.

(i) The air ratio control damper tee handle setting and the flue gas recirculation line valve opening position indicator setting shall be recorded during each 8-hour operating shift.

(ii) The NOX emission limit shall be determined by the compliance and performance test methods and procedures for NOX in §60.46b.

(iii) The monitoring of the NOX emission limit shall be performed in accordance with §60.48b.

(4) Reporting and recordkeeping requirements.

(i) The owner or operator of Boiler No. 100 shall submit a report on any excursions from the limits required by paragraph (b)(2) of this section to the Administrator with the quarterly report required by §60.49b(i).

(ii) The owner or operator of Boiler No. 100 shall keep records of the monitoring required by paragraph (b)(3) of this section for a period of 2 years following the date of such record.

(iii) The owner or operator of Boiler No. 100 shall perform all the applicable reporting and recordkeeping requirements of §60.49b.

(u) Site-specific standard for Merck & Co., Inc.'s Stonewall Plant in Elkton, Virginia.

(1) This paragraph (u) applies only to the pharmaceutical manufacturing facility, commonly referred to as the Stonewall Plant, located at Route 340 South, in Elkton, Virginia ("site") and only to the natural gas-fired boilers installed as part of the

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

powerhouse conversion required pursuant to 40 CFR 52.2454(g). The requirements of this paragraph shall apply, and the requirements of §§60.40b through 60.49b(t) shall not apply, to the natural gas-fired boilers installed pursuant to 40 CFR 52.2454(g).

- (i) The site shall equip the natural gas-fired boilers with low NOX technology.
- (ii) The site shall install, calibrate, maintain, and operate a continuous monitoring and recording system for measuring NOX emissions discharged to the atmosphere and opacity using a continuous emissions monitoring system or a predictive emissions monitoring system.
- (iii) Within 180 days of the completion of the powerhouse conversion, as required by 40 CFR 52.2454, the site shall perform a performance test to quantify criteria pollutant emissions.

(2) [Reserved]

(v) The owner or operator of an affected facility may submit electronic quarterly reports for SO₂ and/or NO_x and/or opacity in lieu of submitting the written reports required under paragraphs (h), (i), (j), (k) or (l) of this section. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format.

(w) The reporting period for the reports required under this subpart is each 6 month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

(x) Facility-specific NOX standard for Weyerhaeuser Company's No. 2 Power Boiler located in New Bern, North Carolina:

(1) Standard for nitrogen oxides.

- (i) When fossil fuel alone is combusted, the NOX emission limit for fossil fuel in §60.44b(a) applies.
- (ii) When fossil fuel and chemical by-product waste are simultaneously combusted, the NOX emission limit is 215 ng/J (0.5 lb/MMBtu).

(2) Emission monitoring for nitrogen oxides.

- (i) The NOX emissions shall be determined by the compliance and performance test methods and procedures for NOX in §60.46b.
- (ii) The monitoring of the NOX emissions shall be performed in accordance with §60.48b.

(3) Reporting and recordkeeping requirements.

- (i) The owner or operator of the No. 2 Power Boiler shall submit a report on any excursions from the limits required by paragraph (x)(2) of this section to the Administrator with the quarterly report required by §60.49b(i).
- (ii) The owner or operator of the No. 2 Power Boiler shall keep records of the monitoring required by paragraph (x)(3) of this section for a period of 2 years following the date of such record.
- (iii) The owner or operator of the No. 2 Power Boiler shall perform all the applicable reporting and recordkeeping requirements of §60.49b.

(y) Facility-specific NOX standard for INEOS USA's AOGI located in Lima, Ohio:

(1) Standard for NOX.

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

- (i) When fossil fuel alone is combusted, the NOX emission limit for fossil fuel in §60.44b(a) applies.
- (ii) When fossil fuel and chemical byproduct/waste are simultaneously combusted, the NOX emission limit is 645 ng/J (1.5 lb/MMBtu).
- (2) Emission monitoring for NOX.
 - (i) The NOX emissions shall be determined by the compliance and performance test methods and procedures for NOX in §60.46b.
 - (ii) The monitoring of the NOX emissions shall be performed in accordance with §60.48b.
- (3) Reporting and recordkeeping requirements.
 - (i) The owner or operator of the AOGI shall submit a report on any excursions from the limits required by paragraph (y)(2) of this section to the Administrator with the quarterly report required by paragraph (i) of this section.
 - (ii) The owner or operator of the AOGI shall keep records of the monitoring required by paragraph (y)(3) of this section for a period of 2 years following the date of such record.
 - (iii) The owner or operator of the AOGI shall perform all the applicable reporting and recordkeeping requirements of this section.

014 [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 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.



SECTION D. Source Level Plan Approval 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: 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.

[Compliance with this streamlined permit condition will assure compliance with the provisions of 25 Pa. Code §§ 123.11(a)(1) and 123.22(b)(1) and 40 CFR 60.42c and 40 CFR 60.43c]

Pursuant to the best available technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the air contaminant emissions from the exhaust of the boiler, Source ID 108, shall not exceed the following limitations:

- (a) Sulfur Dioxide (expressed as SO₂) – 0.0011 lb/mmbtu;
- (b) Particulate matter (PM/PM₁₀/PM_{2.5}) – 0.007 lb/mmbtu
- (c) NO_x as NO₂ - 0.011 lb/m mBtu
- (d) CO - 0.037 lb/m mBtu
- (e) VOC - 0.005 lb/m mBtu
- (f) H₂SO₄ - 0.00014 lb/m mBtu based on 10% molar conversion of SO₂ to SO₃ and 100% SO₃ to H₂SO₄.

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_x burners.

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.

004 [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.



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

Source ID: 101

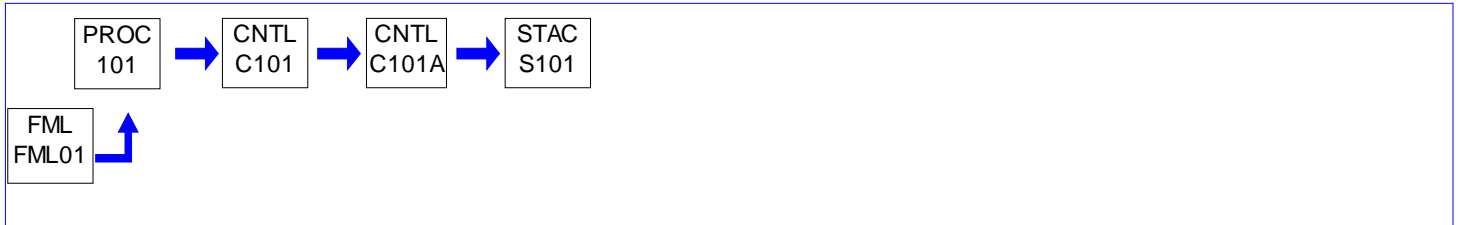
Source Name: COMBUSTION TURBINE #1

Source Capacity/Throughput: 3,304.300 MMBTU/HR

***** CF/HR

Natural Gas

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

**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

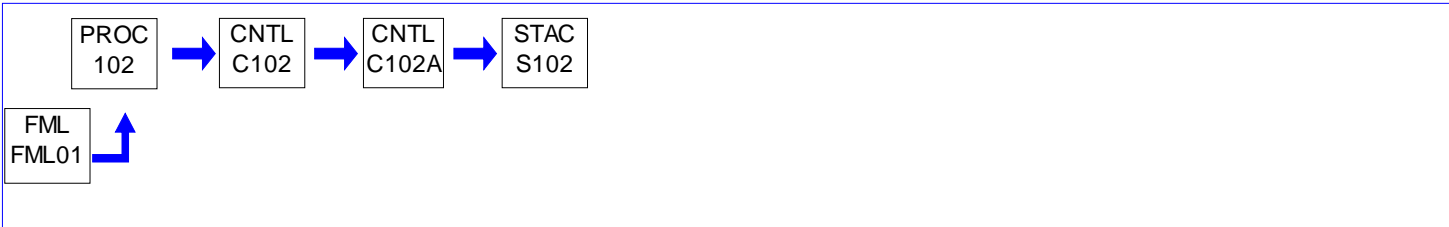
Source Name: COMBUSTION TURBINE #2

Source Capacity/Throughput: 3,304.300 MMBTU/HR

***** CF/HR

Natural Gas

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



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



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

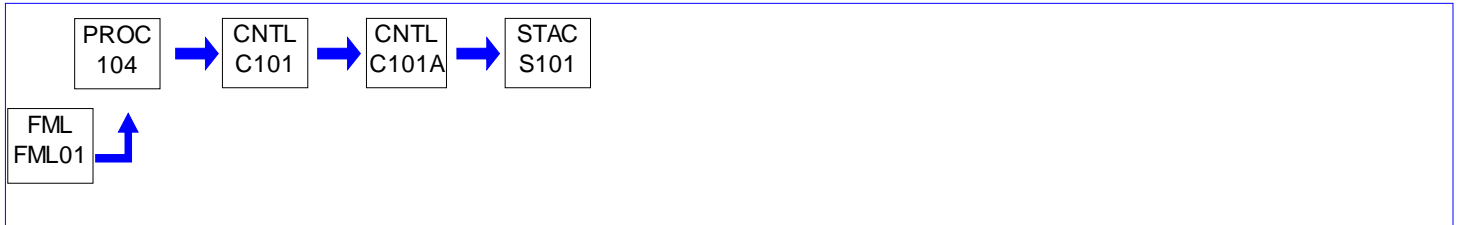
Source Name: DUCT BURNER - HRSG #1

Source Capacity/Throughput: 637.900 MMBTU/HR

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

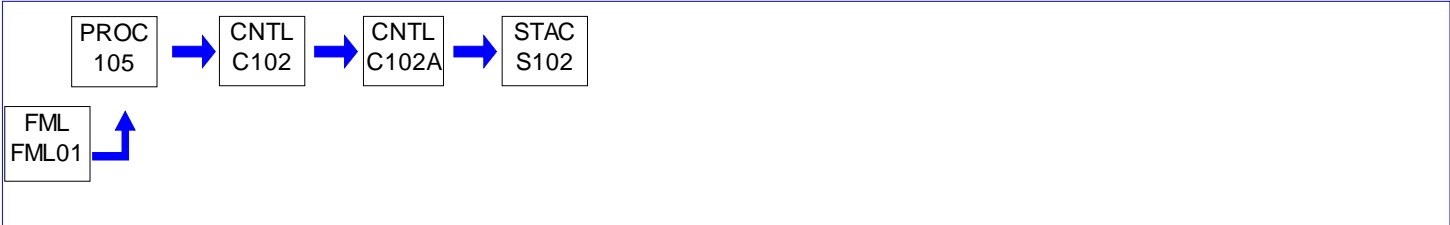
Source Name: DUCT BURNER- HRSG #2

Source Capacity/Throughput: 637.900 MMBTU/HR

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

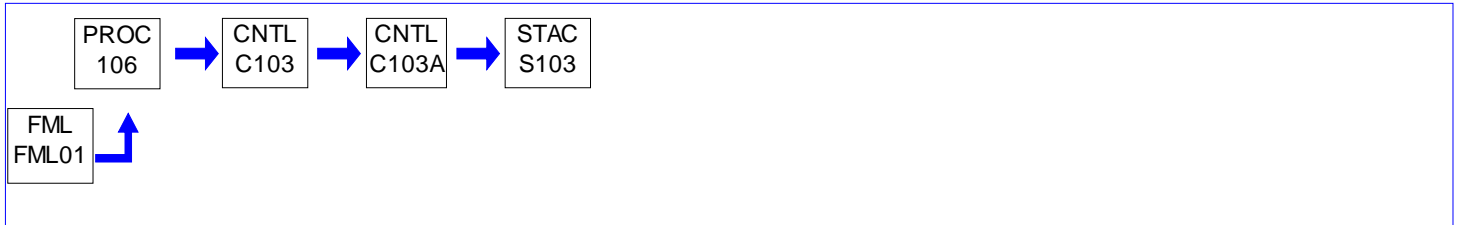
Source Name: DUCT BURNER - HRSG #3

Source Capacity/Throughput: 637.900 MMBTU/HR

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

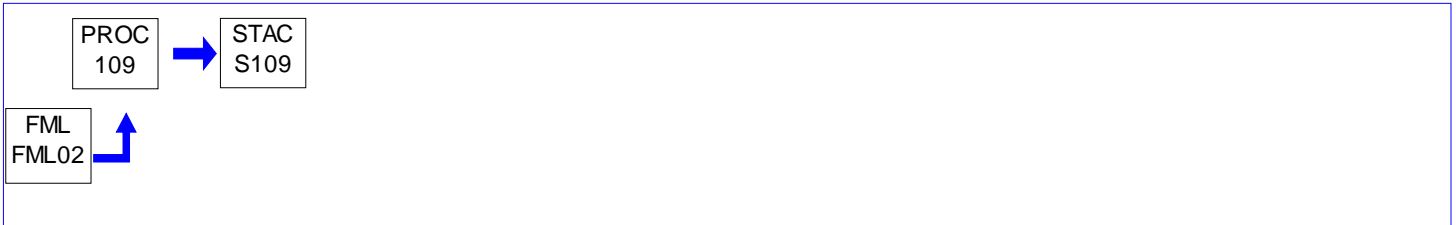
Source Name: EMERGENCY GENERATOR

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 §§ 123.13 and 123.21 and 40 CFR Sections 89.112 and 89.113]

Pursuant to the best available technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the air contaminant emissions from the exhaust of the engine-generator, Source ID 109, shall not exceed the following limitations:

- (a) Nitrogen Oxides (expressed as NO₂) – 5.45 gm/bhp-hr, 32.22 lb/hr, 0.81 tpy;
- (b) Carbon Monoxide – 0.60 gm/bhp-hr, 3.55 lb/hr, 0.089 tpy;
- (c) Volatile Organic Compound (expressed as THC) – 0.22 gm/bhp-hr, 1.30 lb/hr, 0.033 tpy;
- (d) Particulate Matter less than 10 microns in diameter (PM-10) – 0.025 gm/bhp-hr, 0.15 lb/hr, 0.004 tpy;
- (e) PM-2.5 – 0.025 gm/bhp-hr, 0.15 lb/hr, 0.004 tpy

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-generator, Source ID 109, shall not exceed 15% in any 3-minute period and 50% at any time.

003 [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 §§ 123.11]

Pursuant to the best available technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the air contaminant emissions from the exhaust of the engine-generator, Source ID 109, shall not exceed the following limitations:

- (a) Particulate Matter (PM) – 0.008 lb/mmbtu

004 [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 engine-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.

Fuel Restriction(s).**# 005 [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 engine-generator (Source ID 109).

**SECTION D. Source Level Plan Approval Requirements****Operation Hours Restriction(s).****# 006 [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. This limit includes 50 hours per year of testing and maintenance

(b) Additionally, the engine-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 engine-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.**# 007 [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 engine-generator, Source ID 109, shall be equipped with a non-resettable hour meter that accurately monitors the engine-generator's hours of operation.

IV. RECORDKEEPING REQUIREMENTS.**# 008 [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 engine-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.

009 [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-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 engine-generator comply with the requirements in 25 Pa. Code §§ 123.13 and 123.21, respectively;

(b) monthly emissions of nitrogen oxides, carbon monoxide, volatile organic compound, sulfur oxides (SO₂), total PM, total PM₁₀ and total PM_{2.5} 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.

010 [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-generator

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

(Source ID 109) to verify compliance with the fuel restriction requirements for the engine-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.

011 [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 engine-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.

012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]

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

What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

The engine-generator, Source ID 109, shall be installed and configured according to the manufacturer's emission-related specifications.

VII. ADDITIONAL REQUIREMENTS.

013 [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-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.

014 [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 engine-generator, Source ID 109, shall meet the labeling requirements in § 60.4210(f).

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

Source ID: 110

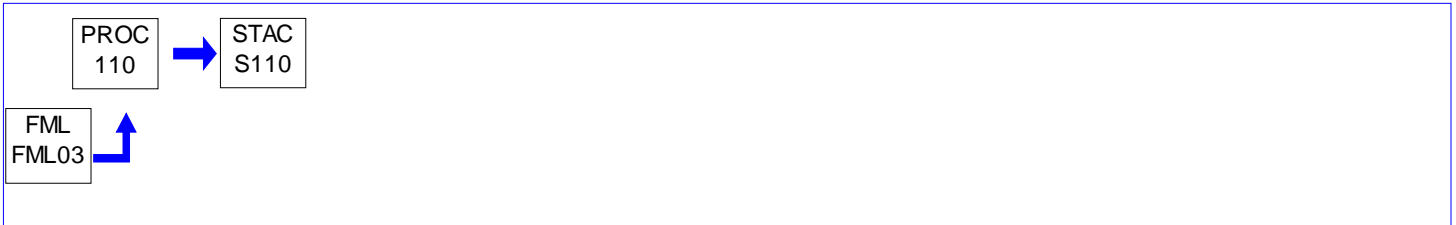
Source Name: FIRE PUMP ENGINE

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.**

[Compliance with this streamlined permit condition will assure compliance with the provisions of 25 Pa. Code §§ 123.13 and 123.21 and 40 CFR Part 60 Subpart III]

Pursuant to the best available technology requirements of 25 Pa. Code §§ 127.1 and 127.12, the engine-pump, Source ID 110, shall be EPA certified to meet the following emissions standards:

- (a) Nitrogen Oxides (expressed as NO₂) – 3.0 g/hp-hr, 2.07 lb/hr, 0.05 tpy;
- (b) Carbon Monoxide – 0.9 g/hp-hr, 0.63 lb/hr, 0.016 tpy;
- (c) Volatile Organic Compound (expressed as THC) – 0.12 g/hp-hr, 0.08 lb/hr, 0.002 tpy;
- (d) Particulate Matter less than 10 microns in diameter (PM-10) – 0.11 g/hp-hr, 0.08 lb/hr, 0.002 tpy;
- (e) PM-2.5 – 0.11 g/hp-hr, 0.08 lb/hr, 0.002 tpy.

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.

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. This limit includes 50 hours per year of

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

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 (SO₂), total PM, total PM₁₀ and total PM_{2.5} 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 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 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**

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

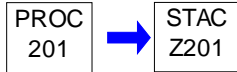
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 201

Source Name: LUBRICATING OIL SUMP #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 #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 #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).

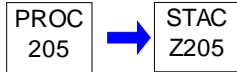
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 205

Source Name: DIESEL STORAGE TANK 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).

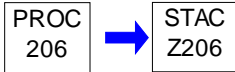
**SECTION D. Source Level Plan Approval Requirements**

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 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.**

[Compliance with the nitrogen oxides and sulfur dioxide emissions limits in this condition will assure compliance with the nitrogen oxide and sulfur dioxide standards specified in 40 CFR Sections 60.4320 and 60.4330, respectively, as well as the limitations of 25 Pa. Code Chapter 123, relating to particulate matter emissions and sulfur compound emissions]

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,

(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:

- i. Carbon monoxide: 2.0 ppm_{dv} @ 15% O₂
- ii. Nitrogen oxides (expressed as NO₂): 2.0 ppm_{dv} @ 15% O₂
- iii. Volatile organic compounds: 1.0 ppm_{dv} (without duct burner) and 1.5 ppm_{dv} (with duct burner) @ 15% O₂
- iv. Sulfur dioxide: 0.0011 lb/MMBtu
- v. Total (filterable) Particulate Matter: 0.003 lb/MMBtu
- vi. Total (filterable and condensable) PM₁₀: 0.0059 lb/MMBtu
- vii. Total (filterable and condensable) PM_{2.5}: 0.0059 lb/MMBtu
- viii. H₂SO₄: 0.00086 lb/MMBtu

(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,

NH3 slip emissions from the operation of each combustion turbine and HRSG shall not exceed 5 ppmdv @ 15% O2 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 PM10 and PM2.5 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 CO2e) in any 12 consecutive month period.

006 [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, as well as 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 (SO2)?**

(a) If your turbine is located in a continental area, you must comply with either paragraph (a)(1) or (a)(2) of this section. If your turbine is located in Alaska, you do not have to comply with the requirements in paragraph (a) of this section until January 1, 2008.

(1) You must not cause to be discharged into the atmosphere from the subject stationary combustion turbine any gases which contain SO2 in excess of 110 nanograms per Joule (ng/J) (0.90 pounds per megawatt-hour (lb/MWh)) gross output,

or

(2) You must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO2/J (0.060 lb SO2/MMBtu) heat input. If your turbine simultaneously fires multiple fuels, each fuel must meet this requirement.

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

(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. Startups shall not exceed 60 minutes in duration.

(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 (SO₂), sulfuric acid mist, total PM, total PM₁₀, total PM_{2.5}, formaldehyde, hexane, and toluene emissions.

(b) Subsequent EPA reference method testing for volatile organic compounds, sulfur oxides (SO₂), sulfuric acid mist, total PM, total PM₁₀, total PM_{2.5}, 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.

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

**# 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 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 NO₂) 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 SO₂ 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 SO₂/MMBtu heat input; or

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

(b) Representative fuel sampling data which show that the sulfur content of the fuel does not exceed 0.0011 lb SO₂/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?

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 (SO₂), sulfuric acid mist, total PM, total PM₁₀, total PM_{2.5}, 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.

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

(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:

(1) the nitrogen oxides, carbon monoxide, volatile organic compound, greenhouse gas, total hazardous air pollutants, sulfur oxides (SO₂), sulfuric acid mist, total PM, total PM₁₀, total PM_{2.5}, 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_x Budget permit application in accordance with 40 CFR Section 96.21(b)(1)(ii).

(b) The permittee shall submit a complete NO_x 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

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

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

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).

037 [40 CFR Part 98 Mandatory Greenhouse Gas Reporting §40 CFR 98.1]
Subpart A - General Provision
Purpose and scope.

The permittee shall comply with the applicable Mandatory GHG Reporting requirements of 40 CFR Part 98.

(a) The facility shall comply with the requirements in 40 CFR Part 98 Subpart D, (40 CFR §§ 98.40 through 98.48).

VI. WORK PRACTICE REQUIREMENTS.

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, high efficiency inlet air filters shall be used in the air inlet section of each combustion turbine (Source IDs 101, 102, and 103).

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, 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.

040 [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.

041 [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).

**SECTION E. Source Group Plan Approval Restrictions.****# 042 [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.

043 [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 (a) 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, 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

044 [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.**# 045 [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:

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

(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.

(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.

046 [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).



SECTION E. Source Group Plan Approval 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).

**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 #1 (10,000 GAL)
202	LUBRICATING OIL SUMP #2 (10,000 GAL)
203	LUBRICATING OIL SUMP #3 (10,000 GAL)
204	DIESEL STORAGE TANK EMERG. GEN. (3,500 GAL)
205	DIESEL STORAGE TANK FIRE PUMP (300 GAL)
206	AQUEOUS AMMONIA STORAGE TANK (60,000 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 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 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 *****
