



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: October 9, 2025

Effective Date: October 9, 2025

Expiration Date: April 8, 2027

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to 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. 08-00060A

Federal Tax Id - Plant Code: 33-2410502-1

Owner Information

Name: KDI WYALUSING POWER LLC
Mailing Address: 111 W 19TH ST
8TH FLOOR
NEW YORK, NY 10011-4115

Plant Information

Plant: KDI WYALUSING POWER LLC/NEW FORTRESS ENERGY SITE
Location: 08 Bradford County 08951 Wyalusing Township
SIC Code: 7374 Services - Data Processing Services

Responsible Official

Name: DEBRAL RAGGIO
Title: EXECUTIVE VP
Phone: (703) 778 - 0841 Email: draggio@newfortressenergy.com

Plan Approval Contact Person

Name: DEBRAL RAGGIO
Title: EXECUTIVE VP
Phone: (703) 778 - 0841 Email: draggio@newfortressenergy.com

[Signature] _____
MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



Plan Approval Description

This plan approval is for the construction of the Wyalusing Energy Center (WEC) consisting of eight (8) 31 MW (Nominal Rating) natural gas fired GE Model TM2500 self-contained simple cycle combustion turbines equipped with a SCR and oxidation catalyst. The plan approval is also for the construction of a diesel fired emergency fire pump engine.



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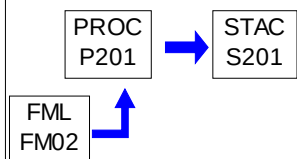
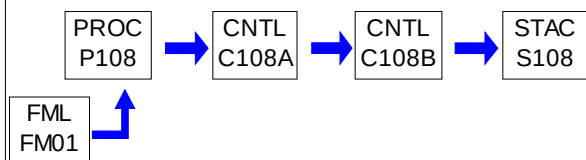
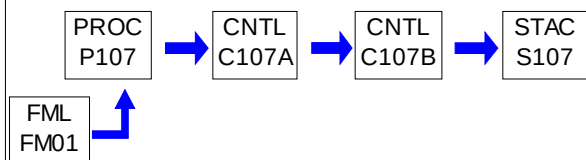
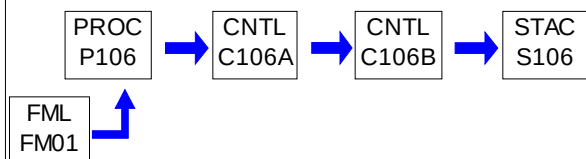
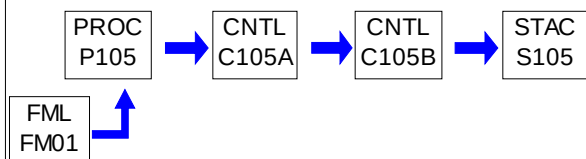
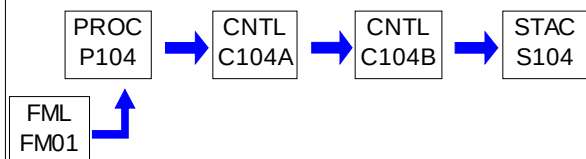
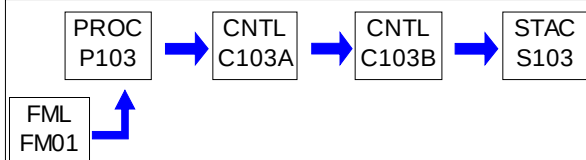
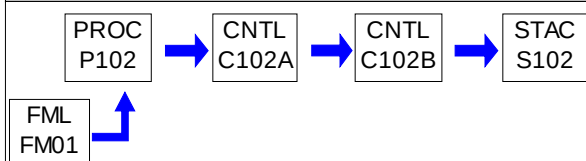
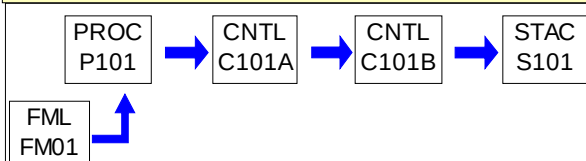
**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
P101	COMBUSTION TURBINE 1	330.800 MMBTU/HR	
P102	COMBUSTION TURBINE 2	330.800 MMBTU/HR	
P103	COMBUSTION TURBINE 3	330.800 MMBTU/HR	
P104	COMBUSTION TURBINE 4	330.800 MMBTU/HR	
P105	COMBUSTION TURBINE 5	330.800 MMBTU/HR	
P106	COMBUSTION TURBINE 6	330.800 MMBTU/HR	
P107	COMBUSTION TURBINE 7	330.800 MMBTU/HR	
P108	COMBUSTION TURBINE 8	330.800 MMBTU/HR	
P201	FIRE PUMP		
P500	AMMONIA TANK		
C101A	OXIDATION CATALYST UNIT 1		
C101B	SCR UNIT 1		
C102A	OXIDATION CATALYST UNIT 2		
C102B	SCR UNIT 2		
C103A	OXIDATION CATALYST UNIT 3		
C103B	SCR UNIT 3		
C104A	OXIDATION CATALYST UNIT 4		
C104B	SCR UNIT 4		
C105A	OXIDATION CATALYST UNIT 5		
C105B	SCR UNIT 5		
C106A	OXIDATION CATALYST UNIT 6		
C106B	SCR UNIT 6		
C107A	OXIDATION CATALYST UNIT 7		
C107B	SCR UNIT 7		
C108A	OXIDATION CATALYST UNIT 8		
C108B	SCR UNIT 8		
FM01	NATURAL GAS LINE		
FM02	DIESEL TANK		
S101	TURBINE 1 STACK		
S102	TURBINE 2 STACK		
S103	TURBINE 3 STACK		
S104	TURBINE 4 STACK		
S105	TURBINE 5 STACK		
S106	TURBINE 6 STACK		
S107	TURBINE 7 STACK		
S108	TURBINE 8 STACK		
S201	FIRE PUMP STACK		
S500	AMMONIA TANK STACK		

PERMIT MAPS



PERMIT MAPS



**PERMIT MAPS**PROC
P500STAC
S500

**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 30 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(a)(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(a)(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 §123.41]**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.

004 [25 Pa. Code §123.42]**Exceptions**

The emission limitations in condition #003 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).

**SECTION C. Site Level Plan Approval Requirements****II. TESTING REQUIREMENTS.****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) Pursuant to 25 Pa. Code Section 139.3, at least 60 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 Section 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 appropriate 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 40 CFR Section 60.8(a), 40 CFR Section 61.13(f) and 40 CFR Section 63.7(g), complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an EPA reference method test program.

(d) 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 noncompliance 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.

(e) Pursuant to 25 Pa. Code Section 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(f) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.

(g) 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.

(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, North Central Regional Office, Air Quality Program Manager, 208 West Third Street, Suite 101, Williamsport PA, 17701 with deadlines verified through document postmarks.

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

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

[Additional authority for this plan approval condition is derived from 40 CFR Part 60 Subpart KKKK Section 60.4400]

(a) The permittee shall conduct initial EPA reference method testing on each of the turbines (Source IDs P101 - P108) within 180 days of the startup of the facility and subsequent testing every two years from the previous tests for carbon monoxide, ammonia slip, volatile organic compounds (including formaldehyde), and total (filterable and condensable) particulate matter. The permittee shall follow the Notification and Reporting requirements specified in Section C of this plan

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

approval.

(b) Nitrogen oxide (NO_x) stack testing must be conducted in accordance with the provisions of 40 CFR Part 60 Subpart KKKK Section 60.4400 and must be done on all eight turbines.

007 [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.

008 [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 of the following:

- (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.

009 [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?**

SO₂ compliance shall be demonstrated in accordance with the provisions of 40 CFR Part 60 Subpart KKKK Section 60.4415 for all eight turbines. The Facility may use a current, valid purchase contract, tariff sheet, or transportation contract for the fuel specifying the maximum total sulfur content. Alternatively the permittee may use any other method specified in 40 CFR Part 60 Section 60.4415.

III. MONITORING REQUIREMENTS.**# 010 [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 the presence of visible air contaminant emissions, visible fugitive air contaminant emissions and malodorous air contaminant emissions in excess of applicable emission limits.

(b) All visible air contaminant emissions, visible fugitive air contaminant emissions and malodorous air contaminant emissions observed to be in excess of an emission limit shall be reported to the manager of the facility at once.

IV. RECORDKEEPING REQUIREMENTS.**# 011 [25 Pa. Code §135.3]****Reporting**

(a) The permittee shall maintain and make available upon request of the Department such records, including computerized records that may be necessary to comply with 25 Pa. Code Section 135.3. These may include records of production, fuel

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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.**# 012 [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.

013 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions 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. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

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

(c) The report shall describe the following:

1. name, permit or authorization number, and location of the facility,
2. nature and cause of the malfunction, emergency or incident,
3. date and time when the malfunction, emergency or incident was first observed,
4. expected duration of excess emissions,
5. estimated rate of emissions,
6. corrective actions or preventative measures taken.

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

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

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

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

VI. WORK PRACTICE REQUIREMENTS.**# 014 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**



SECTION C. Site Level Plan Approval Requirements

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne as specified in 25 Pa. Code Section 123.1 subsection(s) (a)(1)-(7) or (a)(9). 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, 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.

VII. ADDITIONAL REQUIREMENTS.

015 [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: P101

Source Name: COMBUSTION TURBINE 1

Source Capacity/Throughput: 330.800 MMBTU/HR

Conditions for this source occur in the following groups: TURBINES

**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.

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Source ID P101 is a 31 MW (Nominal Rating) General Electric model TM2500 natural gas fired combustion turbine. The air contaminant emissions from which shall be controlled by a BASF model CAMET oxidation catalyst (ID C101A) and a SISU Energy Selective Catalytic Reduction unit (ID C101B).

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

Source ID: P102

Source Name: COMBUSTION TURBINE 2

Source Capacity/Throughput: 330.800 MMBTU/HR

Conditions for this source occur in the following groups: TURBINES

**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.

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Source ID P102 is a 31 MW (Nominal Rating) General Electric model TM2500 natural gas fired combustion turbine. The air contaminant emissions from which shall be controlled by a BASF model CAMET oxidation catalyst (ID C102A) and a SISU Energy Selective Catalytic Reduction unit (ID C102B).

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

Source ID: P103

Source Name: COMBUSTION TURBINE 3

Source Capacity/Throughput: 330.800 MMBTU/HR

Conditions for this source occur in the following groups: TURBINES

**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.

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Source ID P103 is a 31 MW (Nominal Rating) General Electric model TM2500 natural gas fired combustion turbine. The air contaminant emissions from which shall be controlled by a BASF model CAMET oxidation catalyst (ID C103A) and a SISU Energy Selective Catalytic Reduction unit (ID C103B).

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

Source ID: P104

Source Name: COMBUSTION TURBINE 4

Source Capacity/Throughput: 330.800 MMBTU/HR

Conditions for this source occur in the following groups: TURBINES

**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.

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Source ID P104 is a 31 MW (Nominal Rating) General Electric model TM2500 natural gas fired combustion turbine. The air contaminant emissions from which shall be controlled by a BASF model CAMET oxidation catalyst (ID C104A) and a SISU Energy Selective Catalytic Reduction unit (ID C104B).

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

Source ID: P105

Source Name: COMBUSTION TURBINE 5

Source Capacity/Throughput: 330.800 MMBTU/HR

Conditions for this source occur in the following groups: TURBINES

**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.

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Source ID P105 is a 31 MW (Nominal Rating) General Electric model TM2500 natural gas fired combustion turbine. The air contaminant emissions from which shall be controlled by a BASF model CAMET oxidation catalyst (ID C105A) and a SISU Energy Selective Catalytic Reduction unit (ID C105B).

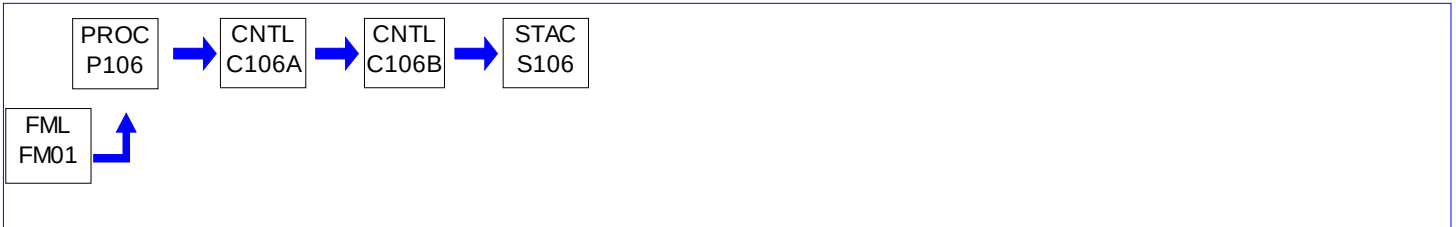
**SECTION D. Source Level Plan Approval Requirements**

Source ID: P106

Source Name: COMBUSTION TURBINE 6

Source Capacity/Throughput: 330.800 MMBTU/HR

Conditions for this source occur in the following groups: TURBINES

**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.

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Source ID P106 is a 31 MW (Nominal Rating) General Electric model TM2500 natural gas fired combustion turbine. The air contaminant emissions from which shall be controlled by a BASF model CAMET oxidation catalyst (ID C106A) and a SISU Energy Selective Catalytic Reduction unit (ID C106B).

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

Source ID: P107

Source Name: COMBUSTION TURBINE 7

Source Capacity/Throughput: 330.800 MMBTU/HR

Conditions for this source occur in the following groups: TURBINES

**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.

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Source ID P107 is a 31 MW (Nominal Rating) General Electric model TM2500 natural gas fired combustion turbine. The air contaminant emissions from which shall be controlled by a BASF model CAMET oxidation catalyst (ID C107A) and a SISU Energy Selective Catalytic Reduction unit (ID C107B).

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

Source ID: P108

Source Name: COMBUSTION TURBINE 8

Source Capacity/Throughput: 330.800 MMBTU/HR

Conditions for this source occur in the following groups: TURBINES

**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.

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Source ID P108 is a 31 MW (Nominal Rating) General Electric model TM2500 natural gas fired combustion turbine. The air contaminant emissions from which shall be controlled by a BASF model CAMET oxidation catalyst (ID C108A) and a SISU Energy Selective Catalytic Reduction unit (ID C108B).

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

Source ID: P201

Source Name: FIRE PUMP

Source Capacity/Throughput:

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

001 [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 subject to 40 CFR Part 60 Subpart IIII?

Compliance with the particulate matter limitation in this condition will assure compliance with the provisions of 25 Pa. Code Section 123.13]

Pursuant to the best available technology provisions of 25 Pa. Code Sections 127.1 and 127.12, the air contaminant emissions from the exhaust of Source P201 shall not exceed the following limitations:

- (a) nitrogen oxides + NMHC – 7.8 g/bhp-hr
- (b) carbon monoxide – 3.7 g/bhp-hr and 0.06 tpy
- (c) volatile organic compound – 0.15 g/bhp-hr
- (d) particulate matter (PM/PM10/PM2.5) – 0.22 g/bhp-hr

Fuel Restriction(s).

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4207]
Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to 40 CFR Part 60 Subpart IIII?

Owners and operators of stationary CI ICE subject to 40 CFR Part 60 Subpart IIII with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel.

- (a) Diesel fuel must meet the ULSD per-gallon standards of this section.
- (b) Sulfur standard. Maximum sulfur content of 15 ppm.
- (c) Cetane index or aromatic content. Diesel fuel must meet one of the following standards:
 - (1) Minimum cetane index of 40.
 - (2) Maximum aromatic content of 35 volume percent.

Operation Hours Restriction(s).

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

Pursuant to best available technology requirements of 25 Pa. Code Section 127.1 and 127.12, Source ID P201 shall not be operated in excess of 500 hours in any 12 consecutive month period.

**SECTION D. Source Level Plan Approval 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.

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]

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

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

Source ID P201 shall be equipped with a non-resettable hour meter.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall record the hours that Source P201 operated through the non-resettable hour meter and shall calculate the 12-consecutive month total hours of operation, including supporting documentation, to verify compliance with the operational restriction specified in this plan approval on a monthly basis. Additionally, the permittee shall record the time of operation of the engine and the reason the engine was in operation during that time.

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

006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall keep accurate and comprehensive records of the following information for Source P201:

(a) the supporting information and calculations used to demonstrate that the emissions of from the exhaust of the engine comply with the emissions limitations.

(b) the fuel certification reports for each delivery of diesel fuel.

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

V. REPORTING REQUIREMENTS.

007 [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 the Standards of Performance for New Stationary Sources (40 CFR Part 60) shall be submitted to both the U. S. Environmental Protection Agency and the Department. The Environmental Protection Agency copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

and

The Pennsylvania Department of Environmental Protection
Air Quality Program Manager
208 W. Third Street, Suite 101
Williamsport, PA 17701-6448

**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.

008 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Source P201 is a 125 brake horsepower diesel-fired fire pump engine.

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4200]

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

Am I subject to this subpart?

Source ID P201 is subject to 40 CFR Part 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The permittee shall comply with all applicable requirements of this subpart.

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?

Source P201 shall be installed and configured according to the manufacturer's emission-related specifications.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Am I subject to this subpart?

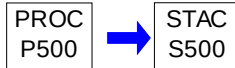
Source ID P201 is subject to 40 CFR Part 63 Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The permittee will meet the requirements of Subpart ZZZZ by complying with 40 CFR Part 60 Subpart IIII. No further requirements from 40 CFR Part 63 Subpart ZZZZ apply.

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

Source ID: P500

Source Name: AMMONIA TANK

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

Source ID P500 is a 22,000 gallon ammonia tank (19% aqueous).

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

Group Name: TURBINES

Group Description: CT 1 - CT 8

Sources included in this group

ID	Name
P101	COMBUSTION TURBINE 1
P102	COMBUSTION TURBINE 2
P103	COMBUSTION TURBINE 3
P104	COMBUSTION TURBINE 4
P105	COMBUSTION TURBINE 5
P106	COMBUSTION TURBINE 6
P107	COMBUSTION TURBINE 7
P108	COMBUSTION TURBINE 8

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

[Compliance with this streamlined plan approval condition assures compliance with the terms and conditions of 40 CFR part 60 Subpart KKKK Section 60.4320(a)]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the nitrogen oxide emissions from each turbine shall not exceed 2.5 ppmv corrected to 15% O₂ and 2.85 lb/hr.

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

[Compliance with this streamlined plan approval condition assures compliance with the terms and conditions of 40 CFR part 60 Subpart KKKK Section 60.4330(a)(1) and (a)(2) and 25 Pa. Code Section 123.22]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the sulfur oxide emissions from each turbine shall not exceed 0.46 lb/hr and 0.90 lb/MWh gross output.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the carbon monoxide emissions from each of the turbines shall not exceed 5.0 ppmv corrected to 15% O₂ and 3.47 lb/hr.

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

[Compliance with this streamlined plan approval condition assures compliance with the terms and conditions of 25 Pa. Code Section 123.13]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the particulate matter emissions from each of the turbines shall not exceed 3.00 lb/hr.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the volatile organic compound emissions (measured as propane) from each of the turbines shall not exceed 3.43 ppmv corrected to 15% O₂ and 2.19 lb/hr.

**SECTION E. Source Group Plan Approval Restrictions.****# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the ammonia slip contained in the exhaust of each of the turbines shall not exceed 5 ppmv corrected to 15% O₂.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the greenhouse gas (GHG) emissions from each of the turbines shall not exceed 38,735 lb/hr.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the formaldehyde emissions from each of the turbines shall not exceed 0.09 lb/hr.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the sulfuric acid mist emissions from each of the turbines shall not exceed 0.07 lb/hr.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the total combined emissions from all eight (8) turbines (Source IDs P101 - P108) shall not exceed the following:

Nitrogen Oxides - 74.24 tons in any 12 consecutive month period
Carbon Monoxide - 93.18 tons in any 12 consecutive month period
Volatile Organic Compounds - 40.22 tons in any 12 consecutive month period
Particulate Matter (including PM₁₀ and PM_{2.5}) - 91.63 tons in any 12 consecutive month period
Sulfur Oxides - 13.26 tons in any 12 consecutive month period
Formaldehyde - 2.32 tons in any 12 consecutive month period
Sulfuric Acid Mist - 2.03 tons in any 12 consecutive month period
Greenhouse Gases (as CO₂e) - 1,113,659 tons in any 12 consecutive month period.

The limits include emissions resulting from start-up and shutdown.

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

The cumulative emission of nitrogen oxides from all 8 combustion turbines (Source IDs P101 - P108) shall not exceed the limits below within (i) through (xii) for the first 12 consecutive months of operation.

- (i) 37.12 tons the first month
- (ii) 43.30 tons the first through second months
- (iii) 46.40 tons the first through third months
- (iv) 49.49 tons the first through fourth months
- (v) 52.58 tons the first through fifth months
- (vi) 55.68 tons the first through sixth months
- (vii) 58.77 tons the first through seventh months
- (viii) 61.86 tons the first through eighth months
- (ix) 64.96 tons the first through ninth months
- (x) 68.05 tons the first through tenth months
- (xi) 71.14 tons the first through eleventh months
- (xii) 74.24 tons the first through twelfth months.

After the first 12 months of operation the turbines shall be restricted to the limits specified in Condition #010 of this section.

**SECTION E. Source Group Plan Approval Restrictions.****# 012 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The cumulative emissions of carbon monoxide from all 8 combustion turbines (Source IDs P101 - P108) shall not exceed the limits below within (i) through (xii) for the first 12 consecutive months of operation.

- (i) 46.59 tons the first month
- (ii) 54.36 tons the first through second months
- (iii) 58.24 tons the first through third months
- (iv) 62.12 tons the first through fourth months
- (v) 66.00 tons the first through fifth months
- (vi) 69.89 tons the first through sixth months
- (vii) 73.77 tons the first through seventh months
- (viii) 77.65 tons the first through eighth months
- (ix) 81.53 tons the first through ninth months
- (x) 85.42 tons the first through tenth months
- (xi) 89.30 tons the first through eleventh months
- (xii) 93.18 tons the first through twelfth months.

After the first 12 months of operation the turbines shall be restricted to the limits specified in Condition #010 of this section.

013 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The cumulative emission of volatile organic compounds (VOCs) from all 8 combustion turbines (Source IDs P101 - P108) shall not exceed the limits below within (i) through (xii) for the first 12 consecutive months of operation.

- (i) 20.11 tons the first month
- (ii) 23.46 tons the first through second months
- (iii) 25.14 tons the first through third months
- (iv) 26.81 tons the first through fourth months
- (v) 28.49 tons the first through fifth months
- (vi) 30.16 tons the first through sixth months
- (vii) 31.84 tons the first through seventh months
- (viii) 33.52 tons the first through eighth months
- (ix) 35.19 tons the first through ninth months
- (x) 36.87 tons the first through tenth months
- (xi) 38.54 tons the first through eleventh months
- (xii) 40.22 tons the first through twelfth months.

After the first 12 months of operation the turbines shall be restricted to the limits specified in Condition #010 of this section.

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

The cumulative emission of total particulate matter (including PM₁₀ and PM_{2.5}) from all 8 combustion turbines (Source IDs P101 - P108) shall not exceed the limits below within (i) through (xi) for the first 12 consecutive months of operation.

- (i) 45.82 tons the first month
- (ii) 53.45 tons the first through second months
- (iii) 57.27 tons the first through third months
- (iv) 61.09 tons the first through fourth months
- (v) 64.91 tons the first through fifth months
- (vi) 68.73 tons the first through sixth months
- (vii) 72.54 tons the first through seventh months
- (viii) 76.36 tons the first through eighth months
- (ix) 80.18 tons the first through ninth months
- (x) 84.00 tons the first through tenth months
- (xi) 87.27 tons the first through eleventh months

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

(xi) 91.63 tons the first through twelfth months.

After the first 12 months of operation the turbines shall be restricted to the limits specified in Condition #010 of this section.

Fuel Restriction(s).

015 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the combustion turbines shall only be fired on pipeline quality natural gas.

Throughput Restriction(s).

016 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the fuel usage of all eight combustion turbines (Source IDs P101 - P108) combined shall not exceed 18,560 MMSCF in any 12 consecutive month period.

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.

017 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Additional authority for this plan approval condition is also derived from 40 CFR Part 60 Subpart KKKK Section 60.4335]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12,

(a) The permittee shall install, certify, maintain and operate continuous emission monitoring systems (CEMS) for nitrogen oxide emissions and carbon monoxide on the exhaust of the turbines 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 a to be associated with each turbine at least 180 days prior to the expected commencement of operation of each respective unit.

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, an oxygen monitor shall be in the exhaust stack of each turbine to monitor oxygen levels to ensure maximum achievable combustion efficiency.

019 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall continuously monitor the amount of fuel combusted in each of the eight of the combustion turbines (Source IDs P101 - P108).

020 [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?**

(a) Each NOX diluent CEMS must be installed and certified according to Performance Specification 2 (PS 2) in appendix B to this part, except the 7-day calibration drift is based on unit operating days, not calendar days. With state approval, Procedure 1 in appendix F to this part is not required. Alternatively, a NOX diluent CEMS that is installed and certified according to appendix A of part 75 of this chapter is acceptable for use under this subpart. The relative accuracy test audit

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

(RATA) of the CEMS shall be performed on a lb/MMBtu basis.

(b) As specified in §60.13(e)(2), during each full unit operating hour, both the NOX monitor and the diluent monitor must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour, to validate the hour. For partial unit operating hours, at least one valid data point must be obtained with each monitor for each quadrant of the hour in which the unit operates. For unit operating hours in which required quality assurance and maintenance activities are performed on the CEMS, a minimum of two valid data points (one in each of two quadrants) are required for each monitor to validate the NOX emission rate for the hour.

(c) Each fuel flowmeter shall be installed, calibrated, maintained, and operated according to the manufacturer's instructions. Alternatively, with state approval, fuel flowmeters that meet the installation, certification, and quality assurance requirements of appendix D to part 75 of this chapter are acceptable for use under this subpart.

(d) Each watt meter, steam flow meter, and each pressure or temperature measurement device shall be installed, calibrated, maintained, and operated according to manufacturer's instructions.

(e) The owner or operator shall develop and keep on-site a quality assurance (QA) plan for all of the continuous monitoring equipment described in paragraphs (a), (c), and (d) of this section. For the CEMS and fuel flow meters, the owner or operator may, with state approval, satisfy the requirements of this paragraph by implementing the QA program and plan described in section 1 of appendix B to part 75 of this chapter.

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

The permittee shall keep comprehensive records of the following relating to the operation of the combustion turbine:

- (a) The amount of natural gas burned on a monthly basis
- (b) The number of hours and the corresponding 12 CMP totals each turbine has been operated
- (c) Tariff sheet or transportation contract for the natural gas being burned showing it meets the definition of pipeline quality.
- (d) Stack test reports showing that each turbine complies with all emission limitations
- (e) The rolling 12 CMP emission totals for NO_x, CO, PM, SO_x, VOC, formaldehyde and CO₂e
- (f) The number of startup and shut downs for the turbine each month

These records shall be retained for a minimum of five years and be presented to the Department upon request.

V. REPORTING REQUIREMENTS.**# 022 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall submit records annually, due March 1 each year, of the following relating to the operation of each combustion turbine:

- (a) The amount of natural gas burned on a monthly basis
- (b) The number of hours and the corresponding 12 CMP totals each turbine has been operated
- (c) Tariff sheet or transportation contract for the natural gas being burned showing it meets the definition of pipeline quality.
- (d) The rolling 12 CMP emission totals for NO_x, CO, PM, SO_x, VOC, formaldehyde and CO₂e
- (e) The number of startup and shut downs for the turbine each month.

023 [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?**

(a) For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content under this subpart, you must submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction.

(b) For each affected unit that performs annual performance tests in accordance with §60.4340(a), you must submit a written report of the results of each performance test before the close of business on the 60th day following the completion

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

of the performance test.

VI. WORK PRACTICE REQUIREMENTS.**# 024 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, each catalytic oxidizer associated with the turbines shall be changed out in accordance with manufacturer's and/or vendor's recommendations based on testing of remaining catalyst activation level.

VII. ADDITIONAL REQUIREMENTS.**# 025 [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 number of startups for all eight (Source ID P101 - P108) combustion turbines shall not exceed 365 in any 12 consecutive month period.

026 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4305]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****Does this subpart apply to my stationary combustion turbine?**

Source IDs P101 - P108 are subject to 40 CFR Part 60 Subpart KKKK, Standards of Performance for Stationary Combustion Turbines. The permittee shall comply with all applicable requirements of Subpart KKKK

**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 *****
