



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: April 1, 2015 Effective Date: May 28, 2026
Revision Date: May 26, 2026 Expiration Date: November 28, 2026
Revision Type: Extension

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. 65-00990C

Federal Tax Id - Plant Code: 26-4286063-1

Owner Information

Name: TENASKA PA PARTNERS LLC
Mailing Address: 14302 FNB PKWY
OMAHA, NE 68154-5212

Plant Information

Plant: TENASKA PA PARTNERS/WESTMORELAND GEN FAC
Location: 65 Westmoreland County 65956 South Huntingdon Township
SIC Code: 4911 Trans. & Utilities - Electric Services

Responsible Official

Name: BUCK HUNT
Title: VICE PRESIDENT
Phone: (402) 691 - 9500 Email: bhunt@tenaska.com

Plan Approval Contact Person

Name: LARRY G CARLSON
Title: VP, ENV AFFAIRS
Phone: (402) 938 - 1661 Email: lcarlson@tenaska.com

[Signature] _____

MARK R. GOROG, P.E., ENVIRONMENTAL PROGRAM MANAGER, SOUTHWEST REGION



Plan Approval Description

This plan approval is to allow construction and temporary operation of a combined cycle natural gas-fired power plant known as the Westmoreland Generating Station by Tenaska Pennsylvania Partners, LLC located in South Huntingdon Township, Westmoreland County.



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

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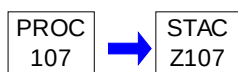
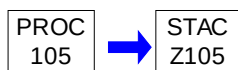
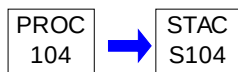
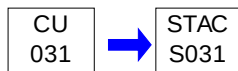
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**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	AUXILIARY BOILER (245 MMBTU/HR)	245.000 MMBTU/HR	
101	COMBINED CYCLE UNIT #1 (3,147 MMBTU/HR)	3,147.000 MMBTU/HR	
102	COMBINED CYCLE UNIT #2 (3,147 MMBTU/HR)	3,147.000 MMBTU/HR	
104	EMERGENCY FIRE PUMP ENGINE (351 BHP)		
105	COOLING TOWER		
107	FIRE PUMP DIESEL STORAGE TANK (572 GAL)		
108	TURBINE LUBE OIL STORAGE TANKS (6,500, 2 @ 7,200 GAL)		
109	AQUEOUS AMMONIA STORAGE TANK		
110	CIRCUIT BREAKERS		
Z001	FUGITIVE EMISSIONS		
C101A	SCR 101		
C101B	OXIDATION CATALYST 101		
C102A	SCR 102		
C102B	OXIDATION CATALYST 102		
S031	AUXILIARY BOILER STACK		
S101	COMBINED CYCLE UNIT #1 STACK		
S102	COMBINED CYCLE UNIT #2 STACK		
S104	FIRE PUMP ENG STACK		
Z105	FUGITIVE EMISSIONS (COOLING TOWER)		
Z107	FUGITIVE EMISSIONS (FIRE PUMP DIESEL TANK)		
Z108	FUGITIVE EMISSIONS (LUBE OIL TANK)		
Z109	FUGITIVE EMISSIONS (AMMONIA TANK)		
Z110	FUGITIVE EMISSIONS (CIRCUIT BREAKERS)		

PERMIT MAPS

**PERMIT MAPS**

PROC
108 → STAC
Z108

PROC
109 → STAC
Z109

PROC
110 → STAC
Z110

**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 § 121.7]**Prohibition of Air Pollution**

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

#014 [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 §121.7]****Prohibition of air pollution.**

No person may permit air pollution as that term is defined in the act.

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

(a) No person may permit the emission into the outdoor atmosphere of fugitive air contaminant 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) N/A

(8) N/A

(9) Sources and classes of sources other than those identified in paragraphs (1)-(8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

(i) the emissions are of minor significance with respect to causing air pollution; and

(ii) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

(b) An application form for requesting a determination under either subsection (a)(9) or 129.15(c) is available from the Department. In reviewing these applications, the Department may require the applicant to supply information including, but not limited to, a description of proposed control measures, characteristics of emissions, quantity of emissions, and ambient air quality data and analysis showing the impact of the source on ambient air quality. The applicant shall be required to demonstrate that the requirements of subsections (a)(9) and (c) and 123.2 (relating to fugitive particulate matter) or of the requirements of 129.15(c) have been satisfied. Upon such demonstration, the Department will issue a determination, in writing, either as an operating permit condition, for those sources subject to permit requirements under the act, or as an order containing appropriate conditions and limitations.

(c) A person responsible for any source specified in subsections (a)(1) -- (7) or (9) shall take all reasonable actions to prevent particulate matter from becoming airborne. 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.

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(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.

(d) The requirements contained in subsection (a) and 123.2 do not apply to fugitive emissions arising from the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.

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

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

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

The permittee may not allow the emission into the outdoor atmosphere of any malodorous air contaminants from any source, in such a manner that the malodors are detectable outside the permittee's property.

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

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

- (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.

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

The limitations of 123.41 (relating to limitations) shall not apply to a visible emission in any of the following instances:

- (1) when the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (3) When the emission results from sources specified in 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions).
- (4) N/A

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

The emissions from all sources and associated air cleaning devices installed and operated under this authorization shall not exceed any of the following on a 12-month rolling sum basis:

- (a) Nitrogen Oxides (NO_x): 310.43 tpy
- (b) Carbon Monoxide (CO): 657.83 tpy
- (c) Sulfur Oxides (SO_x): 23.00 tpy
- (d) Volatile Organic Compounds (VOC): 221.41 tpy
- (e) Particulate Matter (PM): 96.00 tpy
- (f) Particulate Matter with an aerodynamic diameter less than 10 microns (PM₁₀): 92.00 tpy
- (g) Particulate Matter with an aerodynamic diameter less than 2.5 microns (PM_{2.5}): 89.00 tpy

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

- (h) Sulfuric Acid Mist (H₂SO₄): 15.20 tpy
- (i) Ammonia (NH₃): 194.00 tpy
- (j) Formaldehyde (HCHO): 8.67 tpy
- (k) Total Hazardous Air Pollutants (HAPs): 22.07 tpy
- (l) Greenhouse Gases, expressed as Carbon Dioxide Equivalent (CO₂e): 3,725,716 tpy

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

The Owner/Operator shall submit a pre-test protocol to the Department for review at least 90 days prior to the performance of any EPA reference method stack test. The test report may be submitted via PSIMS*Online at <https://www.depgreenport.state.pa.us/ecommm/Login.jsp>. All proposed performance test methods shall be identified in the pre-test protocol and approved by the Department prior to testing.

The Department Source Testing Manual is available at this web address:
<http://www.depgreenport.state.pa.us/elibrary/GetFolder?FolderID=4563>

- (a) At least 90 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval in accordance with paragraph (8) of this condition. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (b) When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter, submitted at least 90 calendar days prior to commencing an emissions testing program, referencing the previously approved procedural protocol is sufficient if the letter is approved by the Department. The letter shall be submitted as required in paragraph (a). If modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack test manual has been revised since the approval, a new protocol shall be submitted for approval.
- (c) 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 in accordance with paragraph (h) of this condition. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.
- (d) If the proposed testing did not occur per the required notification in paragraph (b) above, an electronic mail notification shall be sent within 15 calendar days after the expected completion date of the onsite testing to the Department, in accordance with paragraph (h) of this condition, indicating why the proposed completion date of the on-site testing was not adhered to.
- (e) A complete test report shall be submitted to the Department no later than 60 calendar days after completion of the onsite testing portion of an emission test program.
 - (1) The 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.
 - (2) The summary results will include, at a minimum, the following information:
 - (A) A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
 - (B) Permit number(s) and condition(s) which are the basis for the evaluation.
 - (C) Summary of results with respect to each applicable permit condition.

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(D) 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 §§ 139.53(a)(1) and 139.53(a)(3):

(1) All submittals, except test notifications & portable emission monitor tests, shall be accomplished through PSIMS*Online, available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp>, if it is available.

(2) For test notifications & portable analyzer results, or if internet submittal cannot be accomplished, one electronic copy of the test submission (notifications, protocols, reports, supplemental information, etc.) shall be sent to both PSIMS Administration in Central Office and to the Regional Office AQ Program Manager at the following addresses.

CENTRAL OFFICE:
RA-EPstacktesting@pa.gov

SOUTHWEST REGIONAL OFFICE:
RA-EPSWstacktesting@pa.gov

(i) The permittee shall ensure 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.

(j) Actions Related to Noncompliance Demonstrated by a Stack Test:

(1) If the results of a stack test, performed as required by this approval, exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. Within 30 days of the Permittee receiving the stack test results, a written description of the corrective actions shall be submitted to the Department. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. The Department shall notify the Permittee within 30 days, if the corrective actions taken are deficient. Within 30 days of receipt of the notice of deficiency, the Permittee shall submit a description of additional corrective actions to the Department. The Department reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(2) If the results of the required stack test exceed any limit defined in this permit, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the permit, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee receiving the original stack test results, a retest shall be performed. The Department may extend the retesting deadline if the Permittee demonstrates, to the Department's satisfaction, that retesting within 120 days is not practicable. Failure of the second test to demonstrate compliance with the limits in the permit, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the permit may be grounds for immediate revocation of the permit to operate the affected source.

III. MONITORING REQUIREMENTS.

009 [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

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

by the Department.

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

The permittee shall conduct a facility-wide inspection for the presence of any visible stack emissions, fugitive emissions, and any potentially objectionable odors at the property line at a minimum of once each operating day, during daylight hours, and while the sources are operating. If visible stack emissions, fugitive emissions, and/or potentially objectionable odors are apparent, the permittee shall take corrective action. Records of each inspection shall be maintained in a log and at the minimum include the date, time, name and title of the observer, along with any corrective action taken as a result.

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

The permittee shall implement a sulfur hexafluoride (SF6) leak detection program to minimize SF6 leaks as follows:

- (a) Circuit breakers are to be state-of-the-art sealed enclosed-pressure circuit breakers equipped with low-pressure alarms that are triggered when 10% of the SF6 by weight has escaped.
- (b) When alarms are triggered, the facility shall take corrective action as soon as practicable to fix the circuit breaker units to a like-new state to prevent the emission of SF6 to the maximum extent possible.

IV. RECORDKEEPING REQUIREMENTS.**# 012 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall maintain the following comprehensive and accurate records:

- (a) Facility-wide emissions on a 12-month rolling basis for NO_x, CO, SO_x, VOC, PM, PM₁₀, PM_{2.5}, H₂SO₄, NH₃, HAPs, HCHO, and CO₂e.
- (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 annual natural gas sulfur content analyses.
- (i) Amount of sulfur hexafluoride (SF6) dielectric fluid added to each circuit breaker unit on a monthly basis.
- (j) The date and time that each alarm associated with the circuit breaker is activated, the corrective action taken to remedy the problem associated with each alarm, and the date the corrective action remedied the problem.

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

All logs and required records shall be maintained on site, or at an alternative location acceptable to the Department, for a minimum of five years and shall be made available to the Department upon request.

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

The annual emission report shall include all emissions information for all previously reported sources and new sources which were first operated during the preceding calendar year. Emissions data including, but not limited to the following, shall be reported: carbon monoxide (CO), oxides of nitrogen (NO_x), particulate matter less than 10 micrometers in diameter (PM₁₀), particulate matter less than 2.5 micrometers in diameter (PM_{2.5}), sulfur dioxide (SO₂), volatile organic compounds including formaldehyde (VOC), total hazardous air pollutants (HAP), speciated individual HAP emissions, sulfuric acid mist

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

(H₂SO₄), and greenhouse gases, expressed as CO₂e. The statement shall also contain a certification by a company officer or the plant manager that the information contained in the statement is accurate.

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

Malfunction reporting shall be conducted as follows:

(a) For purpose of this condition a malfunction is defined as any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment or source to operate in a normal or usual manner that may result in an increase in the emission of air contaminants. Examples of malfunctions may include, but are not limited to: large dust plumes, heavy smoke, a spill or release that results in a malodor that is detectable outside the property of the person on whose land the source is being operated.

(b) When the malfunction poses an imminent and substantial danger to the public health and safety or the environment, the notification shall be submitted to the Department no later than one hour after the incident commences.

(c) All other malfunctions that must be reported under subsection (a) shall be reported to the Department no later than the next business day.

(d) The report shall describe the:

- (1) Name and location of the facility;
- (2) Nature and cause of the malfunction or breakdown;
- (3) Time when the malfunction or breakdown was first observed;
- (4) Expected duration of excess emissions; and
- (5) Estimated rate of emissions.

(e) Malfunctions shall be reported to the Department at the following address:

PA DEP
Office of Air Quality
400 Waterfront Drive
Pittsburgh, PA 15222-4745
412-442-4000

(f) The owner or operator shall notify the Department immediately upon completion when corrective measures have been accomplished.

(g) Subsequent to the malfunction, the owner/operator shall submit a full written report to the Department including the items identified in (d) and corrective measures taken on the malfunction within 15 days, if requested.

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

Within 30 days of the selection of the specific manufacturer and model of each air contamination source and air cleaning device approved under this plan approval, the permittee shall submit, in writing, the manufacturer's specifications to the Department.

017 [25 Pa. Code §135.3]**Reporting**

Annual emissions reporting shall be conducted as follows:

(a) A person who owns or operates a source to which this chapter applies, and who has previously been advised by the Department to submit a source report, shall submit by March 1 of each year a source report for the preceding calendar year. The report shall include information for all previously reported sources, new sources which were first operated during the preceding calendar year and sources modified during the same period which were not previously reported.

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

(b) A person who receives initial notification by the Department that a source report is necessary shall submit an initial source 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 a source report, and the Department may grant the extension for reasonable cause.

018 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]**Subpart A - General Provisions****Address.**

The Facility is subject New Source Performance Standards from 40 CFR Part 60 Subpart Db, IIII, KKKK, and TTTT. In accordance with 40 CFR §60.4, copies of all requests, reports, applications, submittals, and other communications regarding the affected sources shall be forwarded to the Department at the address listed below unless otherwise noted.

Pennsylvania Department of Environmental Protection
Air Quality Program
400 Waterfront Drive
Pittsburgh, PA 15222-4745

Copies of all requests, reports, applications, submittals, and other communications shall also be submitted to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI) accessible at <https://cdx.epa.gov/> unless electronic reporting is not available, in which case a copy shall be sent to the following address:

United States Environmental Protection Agency
Region III, Air and Radiation Division
Permits Branch (3AD10)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.13]**Subpart A--General Provisions****Addresses of State air pollution control agencies and EPA Regional Offices.**

The Facility is subject National Emission Standards for Hazardous Air Pollutants from 40 CFR Part 63 Subpart ZZZZ. In accordance with 40 CFR §63.13, copies of all requests, reports, applications, submittals, and other communications regarding the affected sources shall be forwarded to the Department at the address listed below unless otherwise noted.

Pennsylvania Department of Environmental Protection
Air Quality Program
400 Waterfront Drive
Pittsburgh, PA 15222-4745

Copies of all requests, reports, applications, submittals, and other communications shall also be submitted to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI) accessible at <https://cdx.epa.gov/> unless electronic reporting is not available, in which case a copy shall be sent to the following address:

United States Environmental Protection Agency
Region III, Air and Radiation Division
Permits Branch (3AD10)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

**SECTION C. Site Level Plan Approval Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 020 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall construct, operate, and maintain all air contamination sources and air cleaning devices authorized under this Plan Approval in accordance with the manufacturer's specifications and recommended maintenance schedules.

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

In accordance with 25 Pa. Code §127.208(2), the Department authorizes the transfer and use of 106.1 tpy of VOC ERCs from Quad Graphics, Inc. to Tenaska Pennsylvania Partners, LLC for offset purposes at the Westmoreland Generating Station.

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

The permittee shall secure approval to use the offsetting ERCs through a plan approval, which indicates the Department's approval of the ERC transfer and use. Upon the issuance of a plan approval, the ERCs are no longer subject to expiration under § 127.206(f) (relating to ERC general requirements) except as specified in § 127.206(g).

023 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

This plan approval authorizes the transfer and use of the entirety of the NOx and VOC emission reduction credits (ERCs) required for this facility by Section C, Condition #020, of PA-65-00990C

024 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

In accordance with 25 Pa. Code §127.208(2), the Department authorizes the transfer and use of 18.30 tpy of VOC ERCs from R.R. Donnelley & Sons Co. to Tenaska Pennsylvania Partners, LLC for offset purposes at the Westmoreland Generating Station.

025 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

In accordance with 25 Pa. Code §127.208(2), the Department authorizes the transfer and use of 22.27 tpy of VOC ERCs from Bemis Company, Inc. to Tenaska Pennsylvania Partners, LLC for offset purposes at the Westmoreland Generating Station.

026 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

In accordance with 25 Pa. Code §127.208(2), the Department authorizes the transfer and use of 19.77 tpy of VOC ERCs from Koch Supply and Trade, LP to Tenaska Pennsylvania Partners, LLC for offset purposes at the Westmoreland Generating Station.

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

In accordance with 25 Pa. Code §127.208(2), the Department authorizes the transfer and use of 22.78 tpy of VOC ERCs from Koch Supply and Trade, LP to Tenaska Pennsylvania Partners, LLC for offset purposes at the Westmoreland Generating Station.

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

In accordance with 25 Pa. Code §127.208(2), the Department authorizes the transfer and use of 48.00 tpy of VOC ERCs from FXI, Inc. to Tenaska Pennsylvania Partners, LLC for offset purposes at the Westmoreland Generating Station.

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

In accordance with 25 Pa. Code §127.208(2), the Department authorizes the transfer and use of 357.00 tpy of NOx ERCs from Talen Energy Marketing, LLC to Tenaska Pennsylvania Partners, LLC for offset purposes at the Westmoreland Generating Station.

**SECTION C. Site Level Plan Approval Requirements****# 030 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

In accordance with 25 Pa. Code §127.208(2), the Department authorizes the transfer and use of 19.45 tpy of VOC ERCs from Sonoco Products Company to Tenaska Pennsylvania Partners, LLC for offset purposes at the Westmoreland Generating Station.

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

In accordance with 25 Pa. Code § 127.201 through § 127.217, the permittee shall secure 357 tons of NO_x emission reduction credits (ERCs) and 256 tons of VOC ERCs. The ERCs shall be properly generated, certified by the Department, and processed through the registry no later than the date approved by the Department for commencement of operation of the proposed facility.

032 [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.

033 [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).

034 [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.

035 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall comply with the cross-state air pollution rule (CSAPR) requirements (40 CFR Part 97, Subparts AAAAA-DDDDD) by the compliance date specified in 40 CFR 97, Subparts AAAAA-DDDDD, as amended.

036 [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.

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

New air contamination sources and air cleaning devices authorized for construction and temporary operation under this plan approval include:

- Two (2) 3,147 MMBtu/hr Mitsubishi "J" class combined cycle combustion turbines serving one steam turbine generator equipped with heat recovery steam generators (HRSG) with supplemental 400 MMBtu/hr natural gas fired duct burners; controlled by SCR and oxidation catalysts.
- One (1) 245 MMBtu/hr natural gas-fired auxiliary boiler.
- One (1) 351 bhp diesel-fired emergency fire pump engine.
- Cooling tower controlled by drift eliminators.

038 [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's technical reviewer and schedule the Initial Operating Permit Inspection.

**SECTION C. Site Level Plan Approval Requirements****# 039 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

This plan approval is to allow construction and temporary operation of a combined cycle natural gas-fired power plant known as the Westmoreland Generating Station by Tenaska Pennsylvania Partners, LLC located in South Huntingdon Township, Westmoreland County.

040 [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 within 120 days.

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

The permittee shall submit requests to extend the temporary operation periods at least 15 days prior to the expiration date of any authorized period of temporary operation.

042 [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.

043 [25 Pa. Code §129.111]**Applicability**

129.111(a): Except as specified in subsection (c), the NO_x requirements of this section and §§ 129.112—129.115 apply Statewide to the owner and operator of a major NO_x emitting facility that commenced operation on or before August 3, 2018, and the VOC requirements of this section and §§ 129.112—129.115 apply Statewide to the owner and operator of a major VOC emitting facility that commenced operation on or before August 3, 2018, for which a requirement or emission limitation, or both, has not been established in §§ 129.51, 129.52(a)—(k) and Table I categories 1—11, 129.52a—129.52e, 129.54—129.63a, 129.64—129.69, 129.71—129.75, 129.77 and 129.101—129.107.

(c) Sections 129.112—129.114 do not apply to the owner and operator of a NO_x air contamination source that has the potential to emit less than 1 TPY of NO_x located at a major NO_x emitting facility subject to subsection (a) or (b) or a VOC air contamination source that has the potential to emit less than 1 TPY of VOC located at a major VOC emitting facility subject to subsection (a) or (b). The owner or operator shall identify and list these sources in the written notification required under § 129.115(a).

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.

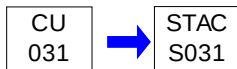
No compliance milestones exist.

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

Source ID: 031

Source Name: AUXILIARY BOILER (245 MMBTU/HR)

Source Capacity/Throughput: 245.000 MMBTU/HR

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

The emissions from the auxiliary boiler shall not exceed the following:

- (a) NO_x: 0.011 lb/MMBtu or 5.76 tpy on a 12-month rolling basis.
- (b) CO: 0.037 lb/MMBtu or 19.85 tpy on a 12-month rolling basis.
- (c) VOC: 0.0054 lb/MMBtu or 2.89 tpy on a 12-month rolling basis.
- (d) Total PM: 0.0075 lb/MMBtu or 4.00 tpy on a 12-month rolling basis.
- (e) Total PM₁₀: 0.0075 lb/MMBtu or 4.00 tpy on a 12-month rolling basis.
- (f) Total PM_{2.5}: 0.0075 lb/MMBtu or 4.00 tpy on a 12-month rolling basis.
- (g) H₂SO₄: 9.20E-06 lb/MMBtu or 4.94E-03 tpy on a 12-month rolling basis.
- (h) SO₂: 0.0006 lb/MMBtu or 0.32 tpy on a 12-month rolling basis.

Compliance with the above emission limits ensures compliance with 25 Pa. Code §§ 123.11, 123.22, and the applicable RACT III requirement of § 129.112(g)(1)(i).

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

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

- (a) Equal to or greater than 10% for a period or periods aggregating more than 3 minutes in any one hour.
- (b) Equal to or greater than 30% at any time.

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

Total fuel usage of the auxiliary boiler shall not exceed 1,052 MMscf/yr on a 12-month rolling basis.

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).

**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.**# 004 [25 Pa. Code §129.112]****Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

Per 25 Pa. Code §129.112(d), the owner and operator of a combustion unit located at a major VOC emitting facility subject to § 129.111 shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices for the control of the VOC emissions.

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

The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subpart Db [40 CFR § 60.40b through § 60.49b].

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.40b]**Subpart Db - Standards of Performance for Industrial- Commercial-Institutional Steam Generating Units****Applicability and delegation of authority.**

(a) The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)).

(b) N/A

(c) N/A

(d) N/A

(e) N/A

(f) N/A

(g) N/A

(h) N/A

(i) N/A

(j) Any affected facility meeting the applicability requirements under paragraph (a) of this section and commencing construction, modification, or reconstruction after June 19, 1986 is not subject to subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators, §60.40).

(k) N/A

(l) N/A

(m) N/A

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

Source ID: 101

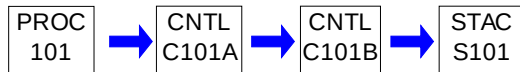
Source Name: COMBINED CYCLE UNIT #1 (3,147 MMBTU/HR)

Source Capacity/Throughput: 3,147.000 MMBTU/HR

Conditions for this source occur in the following groups: G001

G002

G004

**I. RESTRICTIONS.****Emission Restriction(s).****[40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4320]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What emission limits must I meet for nitrogen oxides (NOX)?**

(a) You must meet the emission limits for NO_x specified in Table 1 to this subpart [15 ppm @ 15% O₂ or 54 nanograms per joule (ng/J) of useful output (0.43 lb/MMWh)].

(b) If you have two or more turbines that are connected to a single generator, each turbine must meet the emission limits for NO_x.

[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), (a)(2), or (a)(3) 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/MMWh)) gross output;
- (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; or
- (3) N/A

(b) N/A

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

(a) 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.

(b) Shutdown is defined as the period beginning when the combustion turbine exits DLN mode and ending when fuel flow ceases.

(c) Combustion tuning is defined as adjustments made to gas turbine components to re-establish maximum efficiency and minimize emissions throughout the operating range following maintenance activities that affect turbine combustion dynamics and in preparation of seasonal ambient temperature regimes.

(d) Normal operation is defined as all times except startup, shutdown, and combustion tuning.

**SECTION D. Source Level Plan Approval Requirements****[25 Pa. Code §127.12b]****Plan approval terms and conditions.**

At all times, including startup, shutdown, and combustion tuning, emissions from each combined cycle combustion turbine, Source IDs 101 and 102, shall not exceed the following on a 12-month rolling basis:

- (a) Nitrogen Oxides (NO_x): 148.4 tpy
- (b) Carbon Monoxide (CO): 318.6 tpy
- (d) Volatile Organic Compounds (VOC): 109.6 tpy
- (e) Total Particulate Matter (PM): 42.5 tpy
- (f) Total Particulate Matter with an aerodynamic diameter less than 10 microns (PM₁₀): 42.5 tpy
- (g) Total Particulate Matter with an aerodynamic diameter less than 2.5 microns (PM_{2.5}): 42.5 tpy
- (h) Sulfuric Acid Mist (H₂SO₄): 7.5 tpy
- (c) Sulfur Oxides (SO_x): 11.25 tpy
- (i) Ammonia (NH₃): 96.9 tpy
- (j) Greenhouse Gases, expressed as Carbon Dioxide Equivalent (CO₂e): 1,830,976 tpy

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

At no time shall NO_x emissions exceed 340 lb/hr from each combined cycle combustion turbine to ensure compliance with the 1-hour average NO₂ NAAQS.

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

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

- (a) Equal to or greater than 10% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (b) Equal to or greater than 10% for a period or periods aggregating more than 6 minutes during startup and shutdown.

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

Average fuel sulfur content shall not exceed 0.25 gr/100 scf natural gas on a monthly basis,

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

During normal operation, emissions from each combined cycle combustion turbine, Source IDs 101 and 102, shall not exceed:

- (a) Nitrogen Oxides (NO_x):
 - (1) 2.0 ppmvd @ 15% O₂
 - (2) 26.5 lb/hr
- (b) Carbon Monoxide (CO):
 - (1) 2.0 ppmvd @ 15% O₂
 - (2) 15.9 lb/hr
- (c) Volatile Organic Compounds (VOC):
 - (1) 2.4 ppmvd @ 15% O₂ with duct burners
 - (2) 1.4 ppmvd @ 15% O₂ without duct burners
 - (3) 9.4 lb/hr
- (d) Total Particulate Matter (PM):
 - (1) 0.0039 lb/MMBtu
 - (2) 11.8 lb/hr

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

(e) Total Particulate Matter with an aerodynamic diameter less than 10 microns (PM₁₀):

(1) 0.0039 lb/MMBtu

(2) 11.8 lb/hr

(f) Total Particulate Matter with an aerodynamic diameter less than 2.5 microns (PM_{2.5}):

(1) 0.0039 lb/MMBtu

(2) 11.8 lb/hr

(g) Sulfuric Acid Mist (H₂SO₄):

(1) 5.74E-04 lb/MMBtu

(2) 1.8 lb/hr

(h) Sulfur Dioxide (SO₂):

(1) 2.7 lb/hr

(i) Ammonia Slip (NH₃):

(1) 5.0 ppmvd

(2) 22.9 lb/hr

(j) Formaldehyde (HCHO):

(1) 0.986 lb/hr

(k) Carbon Dioxide (CO₂):

(1) 1,000 lbs CO₂/MWh (gross) on a 12-month annual average basis.

ppmvd = parts per million volume on a dry gas basis, corrected to 15 percent O₂.

ppmvd and lb/MMBtu limits based upon a 3-hour averaging time.

Compliance with these limits ensures compliance with the applicable RACT III requirements of § 129.112(g)(2)(iii)(A).

[25 Pa. Code §129.112]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

Per 25 Pa. Code §129.112(g)(2)(iii)(B), the owner and operator of a combined cycle or combined heat and power combustion turbine with a rated output equal to or greater than 180 MW shall comply with the following presumptive RACT emission limitations as applicable:

(B) 2 ppmvd VOC (as propane) @ 15% oxygen when firing natural gas or a noncommercial gaseous fuel.

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

Total fuel usage of each duct burner of Source IDs 101 and 102 shall not exceed 2,039 MMscf/yr each on a 12-month rolling basis.

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

Startups, shutdowns, and combustion tuning:

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

(b) Total startup and shutdown duration for each combined cycle combustion turbine shall not exceed 390 hours in any consecutive 12-month period.

(c) Each startup event shall not exceed one and one half-hour in duration.

(d) Each shutdown shall not exceed one half hour in duration.

**SECTION D. Source Level Plan Approval Requirements****II. TESTING REQUIREMENTS.****[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?**

(a) If you are not using water or steam injection to control NOX emissions, you must perform annual performance tests in accordance with §60.4400 to demonstrate continuous compliance. If the NOX emission result from the performance test is less than or equal to 75 percent of the NOX emission limit for the turbine, you may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NOX emission limit for the turbine, you must resume annual performance tests.

(b) As an alternative, you may install, calibrate, maintain and operate one of the following continuous monitoring systems:

- (1) Continuous emission monitoring as described in §§60.4335(b) and 60.4345, or
- (2) N/A

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

Within 180 days after initial startup, the permittee shall conduct EPA reference method stack testing for NOx, CO, VOC (with and without duct burners), formaldehyde, PM (filterable and condensable), sulfuric acid mist, SO2, and ammonia slip in accordance with the requirements of 25 Pa. Code §139.

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

The permittee shall conduct subsequent EPA reference method stack testing for VOC, formaldehyde and PM (filterable and condensable) no less often than every two years after initial testing.

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

The permittee shall conduct Department approved CO2 stack testing every 25,000 hours of operation.

III. MONITORING REQUIREMENTS.**[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 (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.

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

(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.

[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?**

(a) All CEMS data must be reduced to hourly averages as specified in §60.13(h).

(b) For each unit operating hour in which a valid hourly average, as described in §60.4345(b), is obtained for both NOX and diluent monitors, the data acquisition and handling system must calculate and record the hourly NOX emission rate in units of ppm or lb/MMBtu, using the appropriate equation from method 19 in appendix A of this part. For any hour in which the hourly average O2 concentration exceeds 19.0 percent O2 (or the hourly average CO2 concentration is less than 1.0 percent CO2), a diluent cap value of 19.0 percent O2 or 1.0 percent CO2 (as applicable) may be used in the emission calculations.

(c) Correction of measured NOX concentrations to 15 percent O2 is not allowed.

(d) If you have installed and certified a NOX diluent CEMS to meet the requirements of part 75 of this chapter, states can approve that only quality assured data from the CEMS shall be used to identify excess emissions under this subpart. Periods where the missing data substitution procedures in subpart D of part 75 are applied are to be reported as monitor downtime in the excess emissions and monitoring performance report required under §60.7(c).

(e) All required fuel flow rate, steam flow rate, temperature, pressure, and megawatt data must be reduced to hourly averages.

(f) Calculate the hourly average NOX emission rates, in units of the emission standards under §60.4320, using either ppm for units complying with the concentration limit or the following equation for units complying with the output based standard:

(1) N/A [Not simple-cycle]

(2) For combined-cycle and combined heat and power complying with the output-based standard, use Equation 1 of this subpart, except that the gross energy output is calculated as the sum of the total electrical and mechanical energy generated by the combustion turbine, the additional electrical or mechanical energy (if any) generated by the steam turbine following the heat recovery steam generator, and 100 percent of the total useful thermal energy output that is not used to generate additional electricity or mechanical output, expressed in equivalent MW.

(3) N/A

(g) N/A

(h) For combined cycle and combined heat and power units with heat recovery, use the calculated hourly average emission rates from paragraph (f) of this section to assess excess emissions on a 30 unit operating day rolling average basis, as described in §60.4380(b)(1).

[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?**

You must monitor the total sulfur content of the fuel being fired in the turbine, except as provided in §60.4365. The sulfur content of the fuel must be determined using total sulfur methods described in §60.4415. Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than half the applicable limit, ASTM D4084, D4810, D5504, or D6228, or Gas Processors Association Standard 2377 (all of which are incorporated by reference, see §60.17), which measure the major sulfur compounds, may be used.

**SECTION D. Source Level Plan Approval Requirements****[25 Pa. Code §123.51]****Monitoring requirements**

- (a) This section applies to combustion units with a rated heat input of 250 million Btus per hour or greater and with an annual average capacity factor of greater than 30%.
- (b) Sources subject to this section shall install, operate and maintain continuous nitrogen oxides monitoring systems and other monitoring systems to convert data to required reporting units in compliance with Chapter 139, Subchapter C (relating to requirements for continuous in-stack monitoring for stationary sources).
- (c) Sources subject to this section shall submit results on a regular schedule and in a format acceptable to the Department and in compliance with Chapter 139, Subchapter C.
- (d) Continuous nitrogen oxides monitoring systems installed under the requirements of this section shall meet the minimum data availability requirements in Chapter 139, Subchapter C.
- (e) The Department may exempt a source from the requirements of subsection (b) if the Department determines that the installation of a continuous emission monitoring system would not provide accurate determination of emissions or that installation of a continuous emission monitoring system cannot be implemented by a source due to physical plant limitations or to extreme economic reasons. A source exempted from the requirements of subsection (b) shall satisfy alternative emission monitoring and reporting requirements proposed by the source and approved by the Department which provide oxides emission data that is representative of actual emissions of the source.
- (f) Sources subject to this section shall comply by October 20, 1993, unless the source becomes subject to the requirements later than October 20, 1990. For sources which become subject to the requirements after October 20, 1990, the source has 36 months from the date the source becomes subject to this section. The Department may issue orders providing a reasonable extension of time for sources that have made good faith efforts to install, operate and maintain continuous monitoring devices, but that have been unable to complete the operations within the time period provided.

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

The permittee shall install, certify, maintain and operate continuous emission monitoring systems (CEMS) for nitrogen oxides, carbon monoxide, and ammonia emissions on the exhaust of each combined-cycle powerblock in accordance with all applicable requirements specified in 25 Pa. Code §139 and the Department's Continuous Source Monitoring Manual.

- (a) Initial Application (Phase I): Proposal[s] containing information as listed in the Phase I section of the Department's Continuous Source Monitoring Manual for the CEMS[s] must be submitted at least 180 days prior to the planned initial source startup date.
- (b) Performance Testing (Phase II): Testing as listed in the Phase II section of the Department's Continuous Source Monitoring Manual must be completed for the CEMS[s] no later than 180 days after initial source startup date and no later than 60 days after source achieves normal process capacity.
- (c) Final Approval (Phase III): The final report of testing as listed in the Phase III section of the Department's Continuous Source Monitoring Manual must be submitted to the Bureau no later than 60 days after completion of testing.
- (d) The owner or operator of the source shall not be issued an operating permit until the CEMS has received Phase III approval, in writing from the Department, when installation of a CEMS is made a condition of the plan approval. Until Phase III Department approval is obtained, operation shall be covered solely under condition of a plan approval.

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

The permittee shall continuously monitor the oxygen level in the stack effluent.

**SECTION D. Source Level Plan Approval Requirements****IV. RECORDKEEPING REQUIREMENTS.****[25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall maintain the following comprehensive and accurate records:

- (a) Actual heat input and power output on a 12-month rolling basis.
- (b) The number of startups and shutdowns and the dates each occur.
- (c) Duration of each startup and shutdown event.
- (d) The type of each startup (i.e. cold, warm, or hot).
- (e) Duct burner hours of operation on a 12-month rolling basis.
- (f) Requirements established in 25 Pa. Code §139 Subchapter C, requirements for source monitoring for stationary sources.
- (g) Requirements in the most recent version of the Department's Continuous Source Monitoring Manual.

V. REPORTING REQUIREMENTS.**[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 of the performance test.

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

The permittee shall operate all air cleaning devices at all times once operating parameters (temperature, flow, etc.) are sufficient for proper operation.

VII. ADDITIONAL REQUIREMENTS.**[40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4365]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How can I be exempted from monitoring the total sulfur content of the fuel?**

You may elect not to monitor the total sulfur content of the fuel combusted in the turbine, if the fuel is demonstrated not to exceed potential sulfur emissions of 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for units located in continental areas and 180 ng SO₂/J (0.42 lb SO₂/MMBtu) heat input for units located in noncontinental areas or a continental area that the Administrator determines does not have access to natural gas and that the removal of sulfur compounds would cause more environmental harm than benefit. You must use one of the following sources of information to make the required demonstration:

- (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 oil use in continental areas is 0.05 weight percent (500 ppmw) or less and 0.4 weight percent (4,000 ppmw) or less for noncontinental areas, the total sulfur content for natural gas use in continental areas is 20 grains of sulfur or less per 100 standard cubic feet and 140 grains of sulfur or less per 100 standard cubic feet for noncontinental areas, has potential sulfur emissions of less than less than 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for continental areas and has potential sulfur emissions of less than less than 180 ng SO₂/J (0.42 lb SO₂/MMBtu) heat input for noncontinental areas; or

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(b) Representative fuel sampling data which show that the sulfur content of the fuel does not exceed 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for continental areas or 180 ng SO₂/J (0.42 lb SO₂/MMBtu) heat input for noncontinental areas. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter is required.

[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?**

77. §60.4333 What are my general requirements for complying with this subpart?

(a) You must operate and maintain your 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.

(b) When an affected unit with heat recovery utilizes a common steam header with one or more combustion turbines, the owner or operator shall either:

(1) Determine compliance with the applicable NO_x emissions limits by measuring the emissions combined with the emissions from the other unit(s) utilizing the common heat recovery unit; or

(2) Develop, demonstrate, and provide information satisfactory to the Administrator on methods for apportioning the combined gross energy output from the heat recovery unit for each of the affected combustion turbines. The Administrator may approve such demonstrated substitute methods for apportioning the combined gross energy output measured at the steam turbine whenever the demonstration ensures accurate estimation of emissions related under this part.

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

The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subpart KKKK [40 CFR § 60.4300 through § 60.4420].

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

Each combined cycle combustion turbine (Source IDs 101 and 102) shall be equipped with DLN burners, selective catalytic reduction, and oxidation catalysts.

[40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5508]**Subpart TTTT - Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units****What is the purpose of this subpart?**

40 CFR Part 60, Subpart TTTT

§ 60.5508 What is the purpose of this subpart?

40 CFR Part 60, Subpart TTTT, establishes emission standards and compliance schedules for the control of greenhouse gas (GHG) emissions from a steam generating unit, IGCC, or a stationary combustion turbine that commences construction after January 8, 2014 or commences modification or reconstruction after June 18, 2014. An affected steam generating unit, IGCC, or stationary combustion turbine shall, for the purposes of 40 CFR Part 60, Subpart TTTT, be referred to as an affected EGU.

§ 60.5509 Am I subject to this subpart?

(a) Except as provided for in 40 CFR §60.5509(b), below, the GHG standards included in 40 CFR Part 60, Subpart TTTT, apply to any steam generating unit, IGCC, or stationary combustion turbine that commenced construction after January 8, 2014 or commenced reconstruction after June 18, 2014 that meets the relevant applicability conditions in 40 CFR §60.5509(a)(1) and (2), below. The GHG standards included in 40 CFR Part 60, Subpart TTTT, also apply to any steam generating unit or IGCC that commenced modification after June 18, 2014 that meets the relevant applicability conditions in

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

40 CFR §60.5509(a)(1) and (2), below.

(1) Has a base load rating greater than 260 GJ/h (250 mmBTU/h) of fossil fuel (either alone or in combination with any other fuel); and

(2) Serves a generator or generators capable of selling greater than 25 MW of electricity to a utility power distribution system.

(b) You are not subject to the requirements of 40 CFR Part 60, Subpart TTTT, if your affected EGU meets any of the conditions specified in 40 CFR §60.5509(b)(1) through (10), below.

(1) [N/A - THE EGUS ARE NOT STEAM GENERATING UNITS OR IGCC; THEY ARE STATIONARY COMBUSTION TURBINES]

(2) [N/A - THE EGUS ARE NOT CAPABLE OF COMBUSTING 50% OR MORE OF NON-FOSSIL FUEL; ALSO, THEY ARE NOT SUBJECT TO A FEDERALLY ENFORCEABLE PERMIT CONDITION LIMITING THE ANNUAL CAPACITY FACTOR FOR ALL FOSSIL FUELS COMBINED OF 10% (0.10) OR LESS.

(3) [N/A - THE EGUS ARE NOT COMBINED HEAT & POWER UNITS; THEY ARE STATIONARY COMBUSTION TURBINES]

(4) [N/A - THE EGUS DO NOT SERVE A GENERATOR ALONG WITH OTHER STEAM GENERATING UNIT(S), IGCC, OR STATIONARY COMBUSTION TURBINE(S) WHERE THE EFFECTIVE GENERATION CAPACITY (DETERMINED BASED ON A PRORATED OUTPUT OF THE BASE LOAD RATING OF EACH STEAM GENERATING, IGCC, OR STATIONARY COMBUSTION TURBINE) IS 25 MW OR LESS]

(-5) [N/A - THE EGUS ARE NOT MUNICIPAL WASTE COMBUSTORS]

(6) [N/A - THE EGUS ARE NOT COMMERCIAL OR INDUSTRIAL SOLID WASTE INCINERATION UNITS]

(7) [N/A - THE EGUS ARE NOT STEAM GENERATING UNITS OR IGCC; THEY ARE STATIONARY COMBUSTION TURBINES]

(8) [N/A - THE EGUS ARE CAPABLE OF COMBUSTING NATURAL GAS]

(9) [N/A - THE EGUS ARE NOT PART OF THE PROPOSED WASHINGTON COUNTY EGU PROJECT DESCRIBED IN AIR QUALITY PERMIT NO. 4911-303-0051-P-01-0 ISSUED BY THE GEORGIA DEPARTMENT OF NATURAL RESOURCES]

(10) [N/A - THE EGUS ARE NOT PART OF THE PROPOSED HOLCOMB EGU PROJECT DESCRIBED IN AIR EMISSION SOURCE CONSTRUCTION PERMIT 0550023 ISSUED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT]

§ 60.5515 Which pollutants are regulated by this subpart?

(a) The pollutants regulated by 40 CFR Part 60, Subpart TTTT, are greenhouse gases (GHGs). The GHG standard in 40 CFR

Part 60, Subpart TTTT, is in the form of a limitation on emission of carbon dioxide.

(b) PSD and Title V thresholds for GHGs:

(1) For the purposes of 40 CFR §51.166(b)(49)(ii), with respect to GHG emissions from affected facilities, the "pollutant that is subject to the standard promulgated under Section 111 of the Act" shall be considered to be the pollutant that otherwise is subject to regulation under the Act as defined in 40 CFR §51.166(b)(48) and in any SIP approved by the EPA that is interpreted to incorporate, or specifically incorporates, 40 CFR §51.166(b)(48).

(2) For the purposes of 40 CFR §52.21(b)(50)(ii), with respect to GHG emissions from affected facilities, the "pollutant that is

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subject to the standard promulgated under Section 111 of the Act" shall be considered to be the pollutant that otherwise is subject to regulation under the Act as defined in 40 CFR §52.21(b)(49).

(3) For the purposes of 40 CFR §70.2, with respect to GHG emissions from affected facilities, the "pollutant that is subject to any standard promulgated under Section 111 of the Act" shall be considered to be the pollutant that otherwise is "subject to regulation" as defined in 40 CFR §70.2.

(4) For the purposes of 40 CFR §71.2, with respect to GHG emissions from affected facilities, the "pollutant that is subject to any standard promulgated under Section 111 of the Act" shall be considered to be the pollutant that otherwise is "subject to regulation" as defined in 40 CFR §71.2.

§ 60.5520 What CO₂ emissions standard must I meet?

(a) For each affected EGU subject to 40 CFR Part 60, Subpart TTTT, you must not discharge from the affected EGU any gases that contain CO₂ in excess of the applicable CO₂ emission standard specified in Table 1 or 2 of 40 CFR Part 60, Subpart TTTT, consistent with 40 CFR §60.5520(b), (c), and (d), below, as applicable.

(b)-(c) [NA-SOURCES SUBJECT TO §60.5520(d)(1)]

(d) Stationary combustion turbines subject to a heat input-based standard in Table 2 of 40 CFR Part 60, Subpart TTTT, that are only permitted to burn one or more uniform fuels, as described in 40 CFR §60.5520(d)(1), below, are only subject to the monitoring requirements in 40 CFR §60.5520(d)(1). All other stationary combustion turbines subject to a heat input based standard in Table 2 are subject to the requirements in 40 CFR §60.5520(d)(2), below. [NOTE: THE STATIONARY COMBUSTION TURBINES ARE PERMITTED TO ONLY USE NATURAL GAS AND MEET §60.5520(d)(1)]

(1) Stationary combustion turbines that are only permitted to burn fuels with a consistent chemical composition (i.e., uniform fuels) that result in a consistent emission rate of 160 lb CO₂/mmBTU or less are not subject to any monitoring or reporting requirements under 40 CFR Part 60, Subpart TTTT. These fuels include, but are not limited to, natural gas, methane, butane, butylene, ethane, ethylene, propane, naphtha, propylene, jet fuel kerosene, No. 1 fuel oil, No. 2 fuel oil, and biodiesel.

Stationary combustion turbines qualifying under this paragraph (40 CFR §60.5520(d)(1)) are only required to maintain purchase records for permitted fuels.

(2) [N/A - THE STATIONARY COMBUSTION TURBINES ARE NOT PERMITTED TO BURN FUELS THAT DO NOT HAVE A CONSISTENT CHEMICAL COMPOSITION (i.e., NON-UNIFORM FUELS)]

TABLE 2 REQUIREMENTS

Table 2 to 40 CFR Part 60, Subpart TTTT - Standards of Performance for GHG Emissions for Electric Generating Units (CO₂ Emission Standards for Affected Stationary Combustion Turbines That Commenced Construction After January 8, 2014 and Reconstruction After June 18, 2014 (Net Energy Output-Based Standards Applicable as Approved by the Administrator)

(a) For a newly constructed or reconstructed stationary combustion turbine that supplies more than its design efficiency or 50%, whichever is less, times its potential electric output as net-electric sales on both a 12-operating month and a 3-year rolling average basis and combusts more than 90% natural gas on a heat input basis on a 12-operating-month rolling average basis, the CO₂ emission standard is 450 kilograms (kg) of CO₂ per megawatt-hour (MWh) of gross energy output (1,000 lb CO₂/MWh); or 470 kg of CO₂ per MWh of net energy output (1,030 lb CO₂/MWh).

(b) For a newly constructed or reconstructed stationary combustion turbine that supplies its design efficiency or 50%, whichever is less, times its potential electric output or less as net-electric sales on either a 12-operating month or a 3-year rolling average basis and combusts more than 90% natural gas on a heat input basis on a 12-operating-month rolling average basis, the CO₂ emission standard is 50 kg CO₂ per gigajoule (GJ) of heat input (120 lb CO₂/mmBTU).

(c) [NA – UNITS ONLY COMBUST NATURAL GAS]

[Note: Numerical values of 1,000 or greater have a minimum of 3 significant figures and numerical values of less than 1,000

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have a minimum of 2 significant figures]

END OF TABLE 2 REQUIREMENTS

§ 60.5525 What are my general requirements for complying with this subpart?

Combustion turbines qualifying under 40 CFR §60.5520(d)(1) are not subject to any requirements in this section (40 CFR §60.5525) other than the requirement to maintain fuel purchase records for permitted fuel(s). For all other affected sources, compliance with the applicable CO₂ emission standard of 40 CFR Part 60, Subpart TTTT, shall be determined on a 12-operating-month rolling average basis. See Table 1 or 2 of 40 CFR Part 60, Subpart TTTT, for the applicable CO₂ emission standards.

(a)-(c) [N/A - THE STATIONARY COMBUSTION TURBINES ARE SUBJECT TO 40 CFR §60.5520(d)(1)]

§ 60.5535 How do I monitor and collect data to demonstrate compliance?

(a) Combustion turbines qualifying under 40 CFR §60.5520(d)(1) are not subject to any requirements in this section (40 CFR §60.5535) other than the requirement to maintain fuel purchase records for permitted fuel(s). If your combustion turbine uses non-uniform fuels as specified under 40 CFR §60.5520(d)(2), you must monitor heat input in accordance with 40 CFR

§60.5535(c)(1), below, and you must monitor CO₂ emissions in accordance with either 40 CFR §60.5535(b), (c)(2), or (c)(5). (a) For each affected EGU subject to 40 CFR Part 60, Subpart TTTT, you must not discharge from the affected EGU any

gases that contain CO₂ in excess of the applicable CO₂ emission standard specified in Table 1 or 2 of 40 CFR Part 60, Subpart TTTT, consistent with 40 CFR §60.5520(b), (c), and (d), below, as applicable.

(b)-(c) [NA-SOURCES SUBJECT TO §60.5520(d)(1)]

(d) Stationary combustion turbines subject to a heat input-based standard in Table 2 of 40 CFR Part 60, Subpart TTTT, that are only permitted to burn one or more uniform fuels, as described in 40 CFR §60.5520(d)(1), below, are only subject to the monitoring requirements in 40 CFR §60.5520(d)(1). All other stationary combustion turbines subject to a heat input based standard in Table 2 are subject to the requirements in 40 CFR §60.5520(d)(2), below. [NOTE: THE STATIONARY COMBUSTION TURBINES ARE PERMITTED TO ONLY USE NATURAL GAS AND MEET §60.5520(d)(1)]

(1) Stationary combustion turbines that are only permitted to burn fuels with a consistent chemical composition (i.e., uniform fuels) that result in a consistent emission rate of 160 lb CO₂/mmBTU or less are not subject to any monitoring or reporting requirements under 40 CFR Part 60, Subpart TTTT. These fuels include, but are not limited to, natural gas, methane, butane, butylene, ethane, ethylene, propane, naphtha, propylene, jet fuel kerosene, No. 1 fuel oil, No. 2 fuel oil, and biodiesel. Stationary combustion turbines qualifying under this paragraph (40 CFR §60.5520(d)(1)) are only required to maintain purchase records for permitted fuels.

(2) [N/A - THE STATIONARY COMBUSTION TURBINES ARE NOT PERMITTED TO BURN FUELS THAT DO NOT HAVE A CONSISTENT CHEMICAL COMPOSITION (i.e., NON-UNIFORM FUELS)]

TABLE 2 REQUIREMENTS

Table 2 to 40 CFR Part 60, Subpart TTTT - Standards of Performance for GHG Emissions for Electric Generating Units (CO₂ Emission Standards for Affected Stationary Combustion Turbines That Commenced Construction After January 8, 2014 and Reconstruction After June 18, 2014 (Net Energy Output-Based Standards Applicable as Approved by the Administrator)

(a) For a newly constructed or reconstructed stationary combustion turbine that supplies more than its design efficiency or 50%, whichever is less, times its potential electric output as net-electric sales on both a 12-operating month and a 3-year rolling average basis and combusts more than 90% natural gas on a heat input basis on a 12-operating-month rolling average basis, the CO₂ emission standard is 450 kilograms (kg) of CO₂ per megawatt-hour (MWh) of gross energy output (1,000 lb CO₂/MWh); or 470 kg of CO₂ per MWh of net energy output (1,030 lb CO₂/MWh).

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

(b) For a newly constructed or reconstructed stationary combustion turbine that supplies its design efficiency or 50%, whichever is less, times its potential electric output or less as net-electric sales on either a 12-operating month or a 3-year rolling average basis and combusts more than 90% natural gas on a heat input basis on a 12-operating-month rolling average basis, the CO₂ emission standard is 50 kg CO₂ per gigajoule (GJ) of heat input (120 lb CO₂/mmBTU).
(c) [NA – UNITS ONLY COMBUST NATURAL GAS]

[Note: Numerical values of 1,000 or greater have a minimum of 3 significant figures and numerical values of less than 1,000 have a minimum of 2 significant figures]

END OF TABLE 2 REQUIREMENTS

§ 60.5525 What are my general requirements for complying with this subpart?

Combustion turbines qualifying under 40 CFR §60.5520(d)(1) are not subject to any requirements in this section (40 CFR §60.5525) other than the requirement to maintain fuel purchase records for permitted fuel(s). For all other affected sources, compliance with the applicable CO₂ emission standard of 40 CFR Part 60, Subpart TTTT, shall be determined on a 12-operating-month rolling average basis. See Table 1 or 2 of 40 CFR Part 60, Subpart TTTT, for the applicable CO₂ emission standards.

(a)-(c) [N/A - THE STATIONARY COMBUSTION TURBINES ARE SUBJECT TO 40 CFR §60.5520(d)(1)]

§ 60.5535 How do I monitor and collect data to demonstrate compliance?

(a) Combustion turbines qualifying under 40 CFR §60.5520(d)(1) are not subject to any requirements in this section (40 CFR §60.5535) other than the requirement to maintain fuel purchase records for permitted fuel(s). If your combustion turbine uses non-uniform fuels as specified under 40 CFR §60.5520(d)(2), you must monitor heat input in accordance with 40 CFR §60.5535(c)(1), below, and you must monitor CO₂ emissions in accordance with either 40 CFR §60.5535(b), (c)(2), or (c)(5),

(ii) If applicable to your affected EGU (for example, for combined heat and power), you must calculate (Pt)PS using the following equation: [SEE REGULATION FOR EQUATION]

(6) Calculation of annual basis for standard: Sources complying with energy output-based standards must calculate the basis (i.e., denominator) of their actual annual emission rate in accordance with 40 CFR §60.5540(a)(6)(i), below. Sources complying with heat input-based standards must calculate the basis of their actual annual emission rate in accordance with 40 CFR §60.5540(a)(6)(ii), below.

(i) In accordance with 40 CFR §60.5520 if you are subject to an energy output-based standard, you must calculate the total gross or net energy output for the affected EGU's compliance period by summing the hourly gross or net energy output values for the affected EGU that you determined under 40 CFR §60.5540(a)(5), above, for all of the valid operating hours in the applicable compliance period.

(ii) If you are subject to a heat input-based standard, you must calculate the total heat input for each fuel fired during the compliance period. The calculation of total heat input for each individual fuel must include all valid operating hours and must also be consistent with any fuel-specific procedures specified within your selected monitoring option under 40 CFR §60.5535(d)(2).

(7) If you are subject to an energy output-based standard, you must calculate the CO₂ mass emissions rate for each affected EGU (kg/MWh) by dividing the total CO₂ mass emissions value calculated according to the procedures in 40 CFR §60.5540(a)(4), above, by the total gross or net energy output value calculated according to the procedures in 40 CFR §60.5540(a)(6)(i), above. Round off the result to two significant figures if the calculated value is less than 1,000; round the result to three significant figures if the calculated value is greater than 1,000. If you are subject to a heat input-based standard, you must calculate the CO₂ mass emissions rate for each affected EGU (lb/mmBTU) by dividing the total CO₂ mass emissions value calculated according to the procedures in 40 CFR §60.5540(a)(4), above, by the total heat input

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

calculated according to the procedures in 40 CFR §60.5540(a)(6)(ii), above. Round off the result to two significant figures.

(b) In accordance with 40 CFR §60.5520, to demonstrate compliance with the applicable CO₂ emission standard, for the initial and each subsequent 12-operating-month compliance period, the CO₂ mass emissions rate for your affected EGU must be determined according to the procedures specified in 40 CFR §60.5540(a)(1) through (7), above, and must be less than or equal to the applicable CO₂ emissions standard in Table 1 or 2 of 40 CFR Part 60, Subpart TTTT, or the emissions standard calculated in accordance with 40 CFR §60.5525(a)(2).

§ 60.5550 What notifications must I submit and when?

(a) You must prepare and submit the notifications specified in 40 CFR §§60.7(a)(1) and (3) and 60.19, as applicable to your affected EGUs (see Table 3 of 40 CFR Part 60, Subpart TTTT). [NOTE: 40 CFR §§60.7(a)(1)&(3) AND 60.19 ARE DESCRIBED BELOW]

(b) [N/A - CEMS ARE NOT REQUIRED]

40 CFR §60.7 REQUIREMENTS

(a) Any owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, as follows:

(1) A notification of the date construction (or reconstruction as defined under 40 CFR §60.15) of an affected facility is commenced postmarked no later than 30 days after such date. This requirement shall not apply in the case of massproduced facilities which are purchased in completed form.

(3) A notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.

END OF 40 CFR §60.7 REQUIREMENTS

[59 FR 12428, Mar. 16, 1994, as amended at 64 FR 7463, Feb. 12, 1998]

§ 60.5555 What reports must I submit and when?

(a) You must prepare and submit reports according to 40 CFR §60.5555(a) through (d), below, as applicable.

(1) For affected EGUs that are required by 40 CFR §60.5525 to conduct initial and on-going compliance determinations on a 12-operating-month rolling average basis, you must submit electronic quarterly reports as follows. After you have accumulated the first 12-operating months for the affected EGU, you must submit a report for the calendar quarter that includes the twelfth operating month no later than 30 days after the end of that quarter. Thereafter, you must submit a report for each subsequent calendar quarter, no later than 30 days after the end of the quarter.

(2) In each quarterly report you must include the following information, as applicable:

(i) Each rolling average CO₂ mass emissions rate for which the last (twelfth) operating month in a 12-operating-month compliance period falls within the calendar quarter. You must calculate each average CO₂ mass emissions rate for the compliance period according to the procedures in 40 CFR §60.5540. You must report the dates (month and year) of the first and twelfth operating months in each compliance period for which you performed a CO₂ mass emissions rate calculation. If there are no compliance periods that end in the quarter, you must include a statement to that effect;

(ii) If one or more compliance periods end in the quarter, you must identify each operating month in the calendar quarter where your EGU violated the applicable CO₂ emission standard;

(iii) If one or more compliance periods end in the quarter and there are no violations for the affected EGU, you must include a statement indicating this in the report;

(iv) The percentage of valid operating hours in each 12-operating-month compliance period described in 40 CFR §60.5555(a)(2)(i), above, (i.e., the total number of valid operating hours (as defined in 40 CFR §60.5540(a)(1)) in that period divided by the total number of operating hours in that period, multiplied by 100 percent);

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

(v) Consistent with 40 CFR §60.5520, the CO₂ emissions standard (as identified in Table 1 or 2 of 40 CFR Part 60, Subpart TTTT) with which your affected EGU must comply; and

(vi) Consistent with 40 CFR §60.5520, an indication whether or not the hourly gross or net energy output (P_{gross/net}) values used in the compliance determinations are based solely upon gross electrical load.

(3) In the final quarterly report of each calendar year, you must include the following:

(i) Consistent with 40 CFR §60.5520, gross energy output or net energy output sold to an electric grid, as applicable to the units of your emission standard, over the four quarters of the calendar year; and

(ii) The potential electric output of the EGU.

(b) You must submit all electronic reports required under 40 CFR §60.5555(a), above, using the Emissions Collection and Monitoring Plan System (ECMPS) Client Tool provided by the Clean Air Markets Division in the Office of Atmospheric Programs of EPA.

(c) [N/A - CEMS ARE NOT REQUIRED]

(d) For affected EGUs subject to the Acid Rain Program, the reports required under 40 CFR §60.5555(a) and (c)(1), above, shall be submitted by:

(1) The person appointed as the Designated Representative (DR) under 40 CFR §72.20; or

(2) The person appointed as the Alternate Designated Representative (ADR) under 40 CFR §72.22; or

(3) A person (or persons) authorized by the DR or ADR under 40 CFR §72.26 to make the required submissions.

(e) [N/A - THE EGUs ARE SUBJECT TO THE ACID RAIN PROGRAM]

(f) [N/A - THE EGUs DO NOT CAPTURE CO₂ TO MEET THE APPLICABLE EMISSION LIMIT]

(g) [N/A - THE EGUs DO NOT CAPTURE CO₂ TO MEET THE APPLICABLE EMISSION LIMIT]

§ 60.5560 What records must I maintain?

(a) You must maintain records of the information you used to demonstrate compliance with 40 CFR Part 60, Subpart TTTT, as specified in 40 CFR §60.7(b) and (f). [NOTE: 40 CFR §§60.7(b)&(f) ARE DESCRIBED BELOW]

(b)(1) For affected EGUs subject to the Acid Rain Program, you must follow the applicable recordkeeping requirements and maintain records as required under Subpart F of 40 CFR Part 75.

(2) [N/A - THE EGUs ARE SUBJECT TO THE ACID RAIN PROGRAM]

(c) You must keep records of the calculations you performed to determine the hourly and total CO₂ mass emissions (tons) for:

(1) Each operating month (for all affected EGUs); and

(2) Each compliance period, including each 12-operating-month compliance period.

(d) Consistent with 40 CFR §60.5520, you must keep records of the applicable data recorded and calculations performed that you used to determine your affected EGU's gross or net energy output for each operating month.

(e) You must keep records of the calculations you performed to determine the percentage of valid CO₂ mass emission rates in each compliance period.

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

(f) You must keep records of the calculations you performed to assess compliance with each applicable CO₂ mass emissions standard in Table 1 or 2 of 40 CFR Part 60, Subpart TTTT.

(g) [N/A - CEMS ARE NOT REQUIRED; THEREFORE, SITE-SPECIFIC CARBON-BASED F-FACTORS ARE NOT RELEVANT]

40 CFR §60.7 REQUIREMENTS

(b) Any owner or operator subject to the provisions of 40 CFR Part 60 shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

(f) Any owner or operator subject to the provisions of 40 CFR Part 60 shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records, except as follows:

(1) [N/A - CEMS ARE NOT REQUIRED]

(2) [N/A - CEMS ARE NOT REQUIRED]

(3) The Administrator or delegated authority, upon notification to the source, may require the owner or operator to maintain all measurements as required by 40 CFR §60.7(f), if the Administrator or the delegated authority determines these records are required to more accurately assess the compliance status of the affected source.

END OF 40 CFR §60.7 REQUIREMENTS

§ 60.5565 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review.

(b) You must maintain each record for three (3) years after the date of conclusion of each compliance period.

(c) You must maintain each record on-site for at least two (2) years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §60.7. Records that are accessible from a central location by a computer or other means that instantly provides access at the site meet this requirement. You may maintain the records off-site for the remaining year(s) as required by 40 CFR Part 60, Subpart TTTT.

§ 60.5570 What parts of the general provisions apply to my affected EGU?

Notwithstanding any other provision of 40 CFR Part 60, certain parts of the general provisions in 40 CFR §§60.1 through 60.19, listed in Table 3 to 40 CFR Part 60, Subpart TTTT, do not apply to your affected EGU.

§ 60.5575 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by the EPA, or a delegated authority such as your state, local, or tribal agency. If the Administrator has delegated authority to your state, local, or tribal agency, then that agency (as well as the EPA) has the authority to implement and enforce this subpart. You should contact your EPA Regional Office to find out if this subpart is delegated to your state, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a state, local, or tribal agency, the Administrator retains the authorities listed in paragraphs (b)(1) through (5) of this section and does not transfer them to the state, local, or tribal agency. In addition, the EPA retains oversight of this subpart and can take enforcement actions, as appropriate.

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

- (1) Approval of alternatives to the emission standards.
- (2) Approval of major alternatives to test methods.
- (3) Approval of major alternatives to monitoring.
- (4) Approval of major alternatives to recordkeeping and reporting.
- (5) Performance test and data reduction waivers under § 60.8(b).

§ 60.5580 What definitions apply to this subpart?

Terms used in 40 CFR Part 60, Subpart TTTT - Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units, as well as Section E, Group 008, are defined in the Clean Air Act; in 40 CFR §60.2 (General Provisions); and in 40 CFR §60.5580.

REGULATORY CHANGES

In the event that 40 CFR Part 60, Subpart TTTT - Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units (NSPS Subpart TTTT) is revised, the permittee shall comply with the revised version of NSPS Subpart TTTT, and shall not be required to comply with any provisions in this plan approval designated as having NSPS Subpart TTTT as their authority, to the extent that such plan approval provisions would be inconsistent with the applicable provisions of the revised NSPS Subpart TTTT.

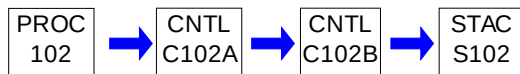
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 102

Source Name: COMBINED CYCLE UNIT #2 (3,147 MMBTU/HR)

Source Capacity/Throughput: 3,147.000 MMBTU/HR

Conditions for this source occur in the following groups: G001
G002
G004

**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).

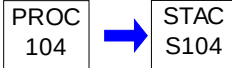
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 104

Source Name: EMERGENCY FIRE PUMP ENGINE (351 BHP)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: G003

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

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

- (a) NO_x: 3.30 lb/hr and 0.82 tpy on a 12-month rolling basis.
- (b) CO: 0.85 lb/hr and 0.21 tpy on a 12-month rolling basis.
- (c) VOC: 0.11 lb/hr and 0.03 tpy on a 12-month rolling basis.
- (d) Total PM: 0.13 lb/hr and 0.03 tpy on a 12-month rolling basis.
- (e) Total PM₁₀: 0.11 lb/hr and 0.03 tpy on a 12-month rolling basis.
- (f) Total PM_{2.5}: 0.11 lb/hr and 0.03 tpy on a 12-month rolling basis.
- (g) SO₂: 0.007 lb/hr and 0.002 tpy on a 12-month rolling basis.

Fuel Restriction(s).**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Sulfur content of the diesel fuel combusted by the fire pump engine shall not exceed 15 ppm.

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

Operation of the emergency fire pump engine shall not exceed 500 hours on a 12-month rolling basis.

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

The permittee shall maintain records of the fuel certification reports for each delivery of fuel to verify compliance with the fuel restriction requirements.

**SECTION D. Source Level Plan Approval 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) 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.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subpart IIII.

006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

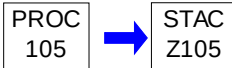
Compliance with 40 CFR Part 60, Subpart IIII assures compliance with 40 CFR Part 63, Subpart ZZZZ.

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

Source ID: 105

Source Name: COOLING TOWER

Source Capacity/Throughput:

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

The emissions from the cooling tower shall not exceed the following:

- (a) Total PM: 1.5 lb/hr and 6.57 tpy on a 12-month rolling basis.
- (b) Total PM10: 0.75 lb/hr and 3.29 tpy on a 12-month rolling basis.
- (c) Total PM2.5: 0.002 lb/hr and 0.009 tpy on a 12-month rolling basis.

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

Total dissolved solids (TDS) of the cooling tower water shall not exceed 2,000 ppm.

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

The permittee shall sample, analyze, and record the circulating water TDS content on a monthly basis.

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

The permittee shall continuously monitor and record the circulating water and make up water flow rates on a 24-hour average.

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

The permittee shall maintain the following comprehensive and accurate records:

- (a) Monthly circulating water TDS content.
- (b) Daily circulating water and make up water flow rates.
- (c) PM, PM10, and PM2.5 emissions on a 12-month rolling basis based upon the measured parameters.

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).

**SECTION D. Source Level Plan Approval Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall install and maintain drift eliminators with a manufacturer's guaranteed drift rate of less than 0.0005% of the circulating water flow rate.

VII. ADDITIONAL REQUIREMENTS.

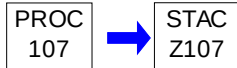
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

Source ID: 107

Source Name: FIRE PUMP DIESEL STORAGE TANK (572 GAL)

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

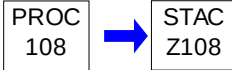
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

Source ID: 108

Source Name: TURBINE LUBE OIL STORAGE TANKS (6,500, 2 @ 7,200 GAL)

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

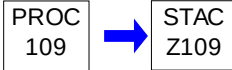
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

Source ID: 109

Source Name: AQUEOUS AMMONIA STORAGE 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.

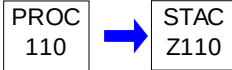
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

Source ID: 110

Source Name: CIRCUIT BREAKERS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

Source ID: Z001

Source Name: FUGITIVE EMISSIONS

Source Capacity/Throughput:

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

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

Group Name: G001

Group Description: Combined Cycle Combustion Turbines

Sources included in this group

ID	Name
101	COMBINED CYCLE UNIT #1 (3,147 MMBTU/HR)
102	COMBINED CYCLE UNIT #2 (3,147 MMBTU/HR)

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

Definitions:

(a) 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.

(b) Shutdown is defined as the period beginning when the combustion turbine exits DLN mode and ending when fuel flow ceases.

(c) Combustion tuning is defined as adjustments made to gas turbine components to re-establish maximum efficiency and minimize emissions throughout the operating range following maintenance activities that affect turbine combustion dynamics and in preparation of seasonal ambient temperature regimes.

(d) Normal operation is defined as all times except startup, shutdown, and combustion tuning.

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

During normal operation, emissions from each combined cycle combustion turbine, Source IDs 101 and 102, shall not exceed:

(a) Nitrogen Oxides (NO_x):

- (1) 2.0 ppmvd @ 15% O₂
- (2) 26.5 lb/hr

(b) Carbon Monoxide (CO):

- (1) 2.0 ppmvd @ 15% O₂
- (2) 15.9 lb/hr

(c) Volatile Organic Compounds (VOC):

- (1) 2.4 ppmvd @ 15% O₂ with duct burners
- (2) 1.4 ppmvd @ 15% O₂ without duct burners
- (3) 9.4 lb/hr

(d) Total Particulate Matter (PM):

- (1) 0.0039 lb/MMBtu
- (2) 11.8 lb/hr

(e) Total Particulate Matter with an aerodynamic diameter less than 10 microns (PM₁₀):

- (1) 0.0039 lb/MMBtu
- (2) 11.8 lb/hr

(f) Total Particulate Matter with an aerodynamic diameter less than 2.5 microns (PM_{2.5}):

- (1) 0.0039 lb/MMBtu
- (2) 11.8 lb/hr

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

(g) Sulfuric Acid Mist (H₂SO₄):

(1) 5.74E-04 lb/MMBtu

(2) 1.8 lb/hr

(h) Sulfur Dioxide (SO₂):

(1) 2.7 lb/hr

(i) Ammonia Slip (NH₃):

(1) 5.0 ppmvd

(2) 22.9 lb/hr

(j) Formaldehyde (HCHO):

(1) 0.986 lb/hr

(k) Carbon Dioxide (CO₂):

(1) 1,000 lbs CO₂/MWh (gross) on a 12-month annual average basis.

ppmvd = parts per million volume on a dry gas basis, corrected to 15 percent O₂.

ppmvd and lb/MMBtu limits based upon a 3-hour averaging time.

Compliance with these limits ensures compliance with the applicable RACT III requirements of § 129.112(g)(2)(iii)(A).

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

At all times, including startup, shutdown, and combustion tuning, emissions from each combined cycle combustion turbine, Source IDs 101 and 102, shall not exceed the following on a 12-month rolling basis:

(a) Nitrogen Oxides (NO_x): 148.4 tpy

(b) Carbon Monoxide (CO): 318.6 tpy

(d) Volatile Organic Compounds (VOC): 109.6 tpy

(e) Total Particulate Matter (PM): 42.5 tpy

(f) Total Particulate Matter with an aerodynamic diameter less than 10 microns (PM₁₀): 42.5 tpy

(g) Total Particulate Matter with an aerodynamic diameter less than 2.5 microns (PM_{2.5}): 42.5 tpy

(h) Sulfuric Acid Mist (H₂SO₄): 7.5 tpy

(c) Sulfur Oxides (SO_x): 11.25 tpy

(i) Ammonia (NH₃): 96.9 tpy

(j) Greenhouse Gases, expressed as Carbon Dioxide Equivalent (CO₂e): 1,830,976 tpy

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

At no time shall NO_x emissions exceed 340 lb/hr from each combined cycle combustion turbine to ensure compliance with the 1-hour average NO₂ NAAQS.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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

(a) Equal to or greater than 10% for a period or periods aggregating more than 3 minutes in any 1 hour.

(b) Equal to or greater than 10% for a period or periods aggregating more than 6 minutes during startup and shutdown.

006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Average fuel sulfur content shall not exceed 0.25 gr/100 scf natural gas on a monthly basis,

**SECTION E. Source Group Plan Approval Restrictions.****# 007 [25 Pa. Code §129.112]****Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule**

Per 25 Pa. Code §129.112(g)(2)(iii)(B), the owner and operator of a combined cycle or combined heat and power combustion turbine with a rated output equal to or greater than 180 MW shall comply with the following presumptive RACT emission limitations as applicable:

(B) 2 ppmvd VOC (as propane) @ 15% oxygen when firing natural gas or a noncommercial gaseous fuel.

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

Startups, shutdowns, and combustion tuning:

- (a) The durations of startups and shutdowns shall be minimized to the maximum extent possible.
- (b) Total startup and shutdown duration for each combined cycle combustion turbine shall not exceed 390 hours in any consecutive 12-month period.
- (c) Each startup event shall not exceed one and one half-hour in duration.
- (d) Each shutdown shall not exceed one half hour in duration.

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

Total fuel usage of each duct burner of Source IDs 101 and 102 shall not exceed 2,039 MMscf/yr each on a 12-month rolling basis.

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

Within 180 days after initial startup, the permittee shall conduct EPA reference method stack testing for NO_x, CO, VOC (with and without duct burners), formaldehyde, PM (filterable and condensable), sulfuric acid mist, SO₂, and ammonia slip in accordance with the requirements of 25 Pa. Code §139.

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

The permittee shall conduct subsequent EPA reference method stack testing for VOC, formaldehyde and PM (filterable and condensable) no less often than every two years after initial testing.

012 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall conduct Department approved CO₂ stack testing every 25,000 hours of operation.

III. MONITORING REQUIREMENTS.**# 013 [25 Pa. Code §123.51]****Monitoring requirements**

- (a) This section applies to combustion units with a rated heat input of 250 million Btus per hour or greater and with an annual average capacity factor of greater than 30%.
- (b) Sources subject to this section shall install, operate and maintain continuous nitrogen oxides monitoring systems and other monitoring systems to convert data to required reporting units in compliance with Chapter 139, Subchapter C (relating to requirements for continuous in-stack monitoring for stationary sources).
- (c) Sources subject to this section shall submit results on a regular schedule and in a format acceptable to the Department and in compliance with Chapter 139, Subchapter C.

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

(d) Continuous nitrogen oxides monitoring systems installed under the requirements of this section shall meet the minimum data availability requirements in Chapter 139, Subchapter C.

(e) The Department may exempt a source from the requirements of subsection (b) if the Department determines that the installation of a continuous emission monitoring system would not provide accurate determination of emissions or that installation of a continuous emission monitoring system cannot be implemented by a source due to physical plant limitations or to extreme economic reasons. A source exempted from the requirements of subsection (b) shall satisfy alternative emission monitoring and reporting requirements proposed by the source and approved by the Department which provide oxides emission data that is representative of actual emissions of the source.

(f) Sources subject to this section shall comply by October 20, 1993, unless the source becomes subject to the requirements later than October 20, 1990. For sources which become subject to the requirements after October 20, 1990, the source has 36 months from the date the source becomes subject to this section. The Department may issue orders providing a reasonable extension of time for sources that have made good faith efforts to install, operate and maintain continuous monitoring devices, but that have been unable to complete the operations within the time period provided.

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

The permittee shall install, certify, maintain and operate continuous emission monitoring systems (CEMS) for nitrogen oxides, carbon monoxide, and ammonia emissions on the exhaust of each combined-cycle powerblock in accordance with all applicable requirements specified in 25 Pa. Code §139 and the Department's Continuous Source Monitoring Manual.

(a) Initial Application (Phase I): Proposal[s] containing information as listed in the Phase I section of the Department's Continuous Source Monitoring Manual for the CEMS[s] must be submitted at least 180 days prior to the planned initial source startup date.

(b) Performance Testing (Phase II): Testing as listed in the Phase II section of the Department's Continuous Source Monitoring Manual must be completed for the CEMS[s] no later than 180 days after initial source startup date and no later than 60 days after source achieves normal process capacity.

(c) Final Approval (Phase III): The final report of testing as listed in the Phase III section of the Department's Continuous Source Monitoring Manual must be submitted to the Bureau no later than 60 days after completion of testing.

(d) The owner or operator of the source shall not be issued an operating permit until the CEMS has received Phase III approval, in writing from the Department, when installation of a CEMS is made a condition of the plan approval. Until Phase III Department approval is obtained, operation shall be covered solely under condition of a plan approval.

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

The permittee shall continuously monitor the oxygen level in the stack effluent.

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

The permittee shall maintain the following comprehensive and accurate records:

(a) Actual heat input and power output on a 12-month rolling basis.

(b) The number of startups and shutdowns and the dates each occur.

(c) Duration of each startup and shutdown event.

(d) The type of each startup (i.e. cold, warm, or hot).

(e) Duct burner hours of operation on a 12-month rolling basis.

(f) Requirements established in 25 Pa. Code §139 Subchapter C, requirements for source monitoring for stationary sources.

(g) Requirements in the most recent version of the Department's Continuous Source Monitoring Manual.

**SECTION E. Source Group Plan Approval 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).

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

The permittee shall operate all air cleaning devices at all times once operating parameters (temperature, flow, etc.) are sufficient for proper operation.

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

The permittee shall comply with all applicable requirements of 40 CFR Part 60, Subpart KKKK [40 CFR § 60.4300 through § 60.4420].

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

Each combined cycle combustion turbine (Source IDs 101 and 102) shall be equipped with DLN burners, selective catalytic reduction, and oxidation catalysts.

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

Group Name: G002

Group Description: Units Subject to NSPS Subpart KKKK

Sources included in this group

ID	Name
101	COMBINED CYCLE UNIT #1 (3,147 MMBTU/HR)
102	COMBINED CYCLE UNIT #2 (3,147 MMBTU/HR)

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4320]****Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What emission limits must I meet for nitrogen oxides (NOX)?**

(a) You must meet the emission limits for NO_x specified in Table 1 to this subpart [15 ppm @ 15% O₂ or 54 nanograms per joule (ng/J) of useful output (0.43 lb/MWh)].

(b) If you have two or more turbines that are connected to a single generator, each turbine must meet the emission limits for NO_x.

002 [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), (a)(2), or (a)(3) 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;
- (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; or

(3) N/A

(b) N/A

II. TESTING REQUIREMENTS.**# 003 [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?**

(a) If you are not using water or steam injection to control NO_x emissions, you must perform annual performance tests in accordance with §60.4400 to demonstrate continuous compliance. If the NO_x emission result from the performance test is less than or equal to 75 percent of the NO_x emission limit for the turbine, you may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NO_x emission limit for the turbine, you must resume annual performance tests.

(b) As an alternative, you may install, calibrate, maintain and operate one of the following continuous monitoring systems:

(1) Continuous emission monitoring as described in §§60.4335(b) and 60.4345, or

(2) N/A

**SECTION E. Source Group Plan Approval Restrictions.****III. MONITORING REQUIREMENTS.****# 004 [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 (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.

005 [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?**

(a) All CEMS data must be reduced to hourly averages as specified in §60.13(h).

(b) For each unit operating hour in which a valid hourly average, as described in §60.4345(b), is obtained for both NOX and diluent monitors, the data acquisition and handling system must calculate and record the hourly NOX emission rate in units of ppm or lb/MMBtu, using the appropriate equation from method 19 in appendix A of this part. For any hour in which the hourly average O2 concentration exceeds 19.0 percent O2 (or the hourly average CO2 concentration is less than 1.0 percent CO2), a diluent cap value of 19.0 percent O2 or 1.0 percent CO2 (as applicable) may be used in the emission calculations.

(c) Correction of measured NOX concentrations to 15 percent O2 is not allowed.

(d) If you have installed and certified a NOX diluent CEMS to meet the requirements of part 75 of this chapter, states can approve that only quality assured data from the CEMS shall be used to identify excess emissions under this subpart. Periods where the missing data substitution procedures in subpart D of part 75 are applied are to be reported as monitor downtime in the excess emissions and monitoring performance report required under §60.7(c).

(e) All required fuel flow rate, steam flow rate, temperature, pressure, and megawatt data must be reduced to hourly averages.

(f) Calculate the hourly average NOX emission rates, in units of the emission standards under §60.4320, using either ppm for units complying with the concentration limit or the following equation for units complying with the output based standard:

(1) N/A [Not simple-cycle]

(2) For combined-cycle and combined heat and power complying with the output-based standard, use Equation 1 of this subpart, except that the gross energy output is calculated as the sum of the total electrical and mechanical energy

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

generated by the combustion turbine, the additional electrical or mechanical energy (if any) generated by the steam turbine following the heat recovery steam generator, and 100 percent of the total useful thermal energy output that is not used to generate additional electricity or mechanical output, expressed in equivalent MW.

(3) N/A

(g) N/A

(h) For combined cycle and combined heat and power units with heat recovery, use the calculated hourly average emission rates from paragraph (f) of this section to assess excess emissions on a 30 unit operating day rolling average basis, as described in §60.4380(b)(1).

006 [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?**

You must monitor the total sulfur content of the fuel being fired in the turbine, except as provided in §60.4365. The sulfur content of the fuel must be determined using total sulfur methods described in §60.4415. Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than half the applicable limit, ASTM D4084, D4810, D5504, or D6228, or Gas Processors Association Standard 2377 (all of which are incorporated by reference, see §60.17), which measure the major sulfur compounds, may be used.

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.**# 007 [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 of the performance test.

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 [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?**

77. §60.4333 What are my general requirements for complying with this subpart?

(a) You must operate and maintain your 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.

(b) When an affected unit with heat recovery utilizes a common steam header with one or more combustion turbines, the owner or operator shall either:

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(1) Determine compliance with the applicable NOX emissions limits by measuring the emissions combined with the emissions from the other unit(s) utilizing the common heat recovery unit; or

(2) Develop, demonstrate, and provide information satisfactory to the Administrator on methods for apportioning the combined gross energy output from the heat recovery unit for each of the affected combustion turbines. The Administrator may approve such demonstrated substitute methods for apportioning the combined gross energy output measured at the steam turbine whenever the demonstration ensures accurate estimation of emissions related under this part.

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4365]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How can I be exempted from monitoring the total sulfur content of the fuel?**

You may elect not to monitor the total sulfur content of the fuel combusted in the turbine, if the fuel is demonstrated not to exceed potential sulfur emissions of 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for units located in continental areas and 180 ng SO₂/J (0.42 lb SO₂/MMBtu) heat input for units located in noncontinental areas or a continental area that the Administrator determines does not have access to natural gas and that the removal of sulfur compounds would cause more environmental harm than benefit. You must use one of the following sources of information to make the required demonstration:

(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 oil use in continental areas is 0.05 weight percent (500 ppmw) or less and 0.4 weight percent (4,000 ppmw) or less for noncontinental areas, the total sulfur content for natural gas use in continental areas is 20 grains of sulfur or less per 100 standard cubic feet and 140 grains of sulfur or less per 100 standard cubic feet for noncontinental areas, has potential sulfur emissions of less than less than 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for continental areas and has potential sulfur emissions of less than less than 180 ng SO₂/J (0.42 lb SO₂/MMBtu) heat input for noncontinental areas; or

(b) Representative fuel sampling data which show that the sulfur content of the fuel does not exceed 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for continental areas or 180 ng SO₂/J (0.42 lb SO₂/MMBtu) heat input for noncontinental areas. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter is required.

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

Group Name: G003

Group Description: Units Subject to NSPS Subpart IIII

Sources included in this group

ID	Name
104	EMERGENCY FIRE PUMP ENGINE (351 BHP)

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4202]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufa**

(a) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (a)(1) through (2) of this section.

(1) N/A

(2) For engines with a maximum engine power greater than or equal to 37 KW (50 HP), the certification emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants beginning in model year 2007.

(b) N/A

(c) [Reserved]

(d) N/A

(e) N/A

(f) N/A

(g) N/A

(h) Notwithstanding the requirements in paragraphs (a) through (f) of this section, stationary CI internal combustion engine manufacturers are not required to certify reconstructed engines; however manufacturers may elect to do so. The reconstructed engine must be certified to the emission standards specified in paragraphs (a) through (f) of this section that are applicable to the model year, maximum engine power and displacement of the reconstructed emergency stationary CI ICE.

002 [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 cor**

(a) N/A

(b) Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE.

(c) Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in table 4 to this subpart, for all pollutants.

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(d) N/A

(e) Owners and operators of emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the NTE standards as indicated in §60.4212.

(f) N/A

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4206]

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

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

Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine.

Fuel Restriction(s).

004 [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

(a) N/A

(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart 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 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.

(c) [Reserved]

(d) N/A

(e) N/A

II. TESTING REQUIREMENTS.

005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4212]

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

What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder?

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (e) of this section.

(a) The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F, for stationary CI ICE with a displacement of less than 10 liters per cylinder, and according to 40 CFR part 1042, subpart F, for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder.

(b) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.

(c) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the equation in §60.4212(c).

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40

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

CFR 94.8 may follow the testing procedures specified in §60.4213 of this subpart, as appropriate.

(d) N/A

(e) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1042 must not exceed the NTE standards for the same model year and maximum engine power as required in 40 CFR 1042.101(c).

III. MONITORING REQUIREMENTS.

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]

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

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

If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in §60.4211.

(a) If you are an owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine.

(b) N/A

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.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]

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

What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) N/A

(b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

(c) N/A

(d) If you own or operate an emergency stationary CI ICE with a maximum engine power more than 100 HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §60.4211(f)(2)(ii) and (iii) or that operates for the purposes specified in §60.4211(f)(3)(i), you must submit an annual report according to the requirements in paragraphs (d)(1) through (3) of this section.

(1) The report must contain the following information:

(i) Company name and address where the engine is located.

(ii) Date of the report and beginning and ending dates of the reporting period.

(iii) Engine site rating and model year.

(iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.

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(v) Hours operated for the purposes specified in §60.4211(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in §60.4211(f)(2)(ii) and (iii).

(vi) Hours spent for operation for the purposes specified in §60.4211(f)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in §60.4211(f)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §60.4.

VI. WORK PRACTICE REQUIREMENTS.**# 008 [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?**

(a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under paragraph (g) of this section:

(1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;

(2) Change only those emission-related settings that are permitted by the manufacturer; and

(3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

(b) N/A

(c) If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section.

(d) N/A

(e) N/A

(f) If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary ICE in emergency situations.

(2) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

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- (i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
- (ii) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
- (iii) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- (3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
- (i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
- (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
- (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
- (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
- (D) The power is provided only to the facility itself or to support the local transmission and distribution system.
- (E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.
- (ii) [Reserved]
- (g) If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:
- (1) N/A
- (2) N/A
- (3) If you are an owner or operator of a stationary CI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every

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

8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

VII. ADDITIONAL REQUIREMENTS.**# 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?**

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(1) N/A

(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:

- (i) Manufactured after April 1, 2006, and are not fire pump engines, or
- (ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.

(b) N/A

(c) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.

(d) N/A

(e) Owners and operators of facilities with CI ICE that are acting as temporary replacement units and that are located at a stationary source for less than 1 year and that have been properly certified as meeting the standards that would be applicable to such engine under the appropriate nonroad engine provisions, are not required to meet any other provisions under this subpart with regard to such engines.

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4208]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What is the deadline for importing or installing stationary CI ICE produced in the previous model year?**

(a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.

(b) N/A

(c) N/A

(d) N/A

(e) N/A

(f) N/A

(g) N/A

(h) In addition to the requirements specified in §§60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in paragraphs (a) through (g) of this section after the dates specified in paragraphs (a) through (g) of this section.

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(i) The requirements of this section do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.

**# 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4218]
Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What parts of the General Provisions apply to me?**

Table 8 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

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Group Name: G004

Group Description: Units Subject to NSPS Subpart TTTT

Sources included in this group

ID	Name
101	COMBINED CYCLE UNIT #1 (3,147 MMBTU/HR)
102	COMBINED CYCLE UNIT #2 (3,147 MMBTU/HR)

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 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.5508]
Subpart TTTT - Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units
What is the purpose of this subpart?**

40 CFR Part 60, Subpart TTTT

§ 60.5508 What is the purpose of this subpart?

40 CFR Part 60, Subpart TTTT, establishes emission standards and compliance schedules for the control of greenhouse gas (GHG) emissions from a steam generating unit, IGCC, or a stationary combustion turbine that commences construction after January 8, 2014 or commences modification or reconstruction after June 18, 2014. An affected steam generating unit, IGCC, or stationary combustion turbine shall, for the purposes of 40 CFR Part 60, Subpart TTTT, be referred to as an affected EGU.

§ 60.5509 Am I subject to this subpart?

(a) Except as provided for in 40 CFR §60.5509(b), below, the GHG standards included in 40 CFR Part 60, Subpart TTTT, apply to any steam generating unit, IGCC, or stationary combustion turbine that commenced construction after January 8, 2014 or commenced reconstruction after June 18, 2014 that meets the relevant applicability conditions in 40 CFR §60.5509(a)(1) and (2), below. The GHG standards included in 40 CFR Part 60, Subpart TTTT, also apply to any steam generating unit or IGCC that commenced modification after June 18, 2014 that meets the relevant applicability conditions in 40 CFR §60.5509(a)(1) and (2), below.

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

(1) Has a base load rating greater than 260 GJ/h (250 mmBTU/h) of fossil fuel (either alone or in combination with any other fuel); and

(2) Serves a generator or generators capable of selling greater than 25 MW of electricity to a utility power distribution system.

(b) You are not subject to the requirements of 40 CFR Part 60, Subpart TTTT, if your affected EGU meets any of the conditions specified in 40 CFR §60.5509(b)(1) through (10), below.

(1) [N/A - THE EGUs ARE NOT STEAM GENERATING UNITS OR IGCC; THEY ARE STATIONARY COMBUSTION TURBINES]

(2) [N/A - THE EGUs ARE NOT CAPABLE OF COMBUSTING 50% OR MORE OF NON-FOSSIL FUEL; ALSO, THEY ARE NOT SUBJECT TO A FEDERALLY ENFORCEABLE PERMIT CONDITION LIMITING THE ANNUAL CAPACITY FACTOR FOR ALL FOSSIL FUELS COMBINED OF 10% (0.10) OR LESS.

(3) [N/A - THE EGUs ARE NOT COMBINED HEAT & POWER UNITS; THEY ARE STATIONARY COMBUSTION TURBINES]

(4) [N/A - THE EGUs DO NOT SERVE A GENERATOR ALONG WITH OTHER STEAM GENERATING UNIT(S), IGCC, OR STATIONARY COMBUSTION TURBINE(S) WHERE THE EFFECTIVE GENERATION CAPACITY (DETERMINED BASED ON A PRORATED OUTPUT OF THE BASE LOAD RATING OF EACH STEAM GENERATING, IGCC, OR STATIONARY COMBUSTION TURBINE) IS 25 MW OR LESS]

(-5) [N/A - THE EGUs ARE NOT MUNICIPAL WASTE COMBUSTORS]

(6) [N/A - THE EGUs ARE NOT COMMERCIAL OR INDUSTRIAL SOLID WASTE INCINERATION UNITS]

(7) [N/A - THE EGUs ARE NOT STEAM GENERATING UNITS OR IGCC; THEY ARE STATIONARY COMBUSTION TURBINES]

(8) [N/A - THE EGUs ARE CAPABLE OF COMBUSTING NATURAL GAS]

(9) [N/A - THE EGUs ARE NOT PART OF THE PROPOSED WASHINGTON COUNTY EGU PROJECT DESCRIBED IN AIR QUALITY PERMIT NO. 4911-303-0051-P-01-0 ISSUED BY THE GEORGIA DEPARTMENT OF NATURAL RESOURCES]

(10) [N/A - THE EGUs ARE NOT PART OF THE PROPOSED HOLCOMB EGU PROJECT DESCRIBED IN AIR EMISSION SOURCE CONSTRUCTION PERMIT 0550023 ISSUED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT]

§ 60.5515 Which pollutants are regulated by this subpart?

(a) The pollutants regulated by 40 CFR Part 60, Subpart TTTT, are greenhouse gases (GHGs). The GHG standard in 40 CFR Part 60, Subpart TTTT, is in the form of a limitation on emission of carbon dioxide.

(b) PSD and Title V thresholds for GHGs:

(1) For the purposes of 40 CFR §51.166(b)(49)(ii), with respect to GHG emissions from affected facilities, the "pollutant that is subject to the standard promulgated under Section 111 of the Act" shall be considered to be the pollutant that otherwise is subject to regulation under the Act as defined in 40 CFR §51.166(b)(48) and in any SIP approved by the EPA that is interpreted to incorporate, or specifically incorporates, 40 CFR §51.166(b)(48).

(2) For the purposes of 40 CFR §52.21(b)(50)(ii), with respect to GHG emissions from affected facilities, the "pollutant that is subject to the standard promulgated under Section 111 of the Act" shall be considered to be the pollutant that otherwise is

subject to regulation under the Act as defined in 40 CFR §52.21(b)(49).

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(3) For the purposes of 40 CFR §70.2, with respect to GHG emissions from affected facilities, the “pollutant that is subject to any standard promulgated under Section 111 of the Act” shall be considered to be the pollutant that otherwise is “subject to regulation” as defined in 40 CFR §70.2.

(4) For the purposes of 40 CFR §71.2, with respect to GHG emissions from affected facilities, the “pollutant that is subject to any standard promulgated under Section 111 of the Act” shall be considered to be the pollutant that otherwise is “subject to regulation” as defined in 40 CFR §71.2.

§ 60.5520 What CO₂ emissions standard must I meet?

(a) For each affected EGU subject to 40 CFR Part 60, Subpart TTTT, you must not discharge from the affected EGU any gases that contain CO₂ in excess of the applicable CO₂ emission standard specified in Table 1 or 2 of 40 CFR Part 60, Subpart TTTT, consistent with 40 CFR §60.5520(b), (c), and (d), below, as applicable.

(b)-(c) [NA-SOURCES SUBJECT TO §60.5520(d)(1)]

(d) Stationary combustion turbines subject to a heat input-based standard in Table 2 of 40 CFR Part 60, Subpart TTTT, that are only permitted to burn one or more uniform fuels, as described in 40 CFR §60.5520(d)(1), below, are only subject to the monitoring requirements in 40 CFR §60.5520(d)(1). All other stationary combustion turbines subject to a heat input based standard in Table 2 are subject to the requirements in 40 CFR §60.5520(d)(2), below. [NOTE: THE STATIONARY COMBUSTION TURBINES ARE PERMITTED TO ONLY USE NATURAL GAS AND MEET §60.5520(d)(1)]

(1) Stationary combustion turbines that are only permitted to burn fuels with a consistent chemical composition (i.e., uniform fuels) that result in a consistent emission rate of 160 lb CO₂/mmBTU or less are not subject to any monitoring or reporting requirements under 40 CFR Part 60, Subpart TTTT. These fuels include, but are not limited to, natural gas, methane, butane, butylene, ethane, ethylene, propane, naphtha, propylene, jet fuel kerosene, No. 1 fuel oil, No. 2 fuel oil, and biodiesel.

Stationary combustion turbines qualifying under this paragraph (40 CFR §60.5520(d)(1)) are only required to maintain purchase records for permitted fuels.

(2) [N/A - THE STATIONARY COMBUSTION TURBINES ARE NOT PERMITTED TO BURN FUELS THAT DO NOT HAVE A CONSISTENT CHEMICAL COMPOSITION (i.e., NON-UNIFORM FUELS)]

TABLE 2 REQUIREMENTS

Table 2 to 40 CFR Part 60, Subpart TTTT - Standards of Performance for GHG Emissions for Electric Generating Units (CO₂ Emission Standards for Affected Stationary Combustion Turbines That Commenced Construction After January 8, 2014 and Reconstruction After June 18, 2014 (Net Energy Output-Based Standards Applicable as Approved by the Administrator)

(a) For a newly constructed or reconstructed stationary combustion turbine that supplies more than its design efficiency or 50%, whichever is less, times its potential electric output as net-electric sales on both a 12-operating month and a 3-year rolling average basis and combusts more than 90% natural gas on a heat input basis on a 12-operating-month rolling average basis, the CO₂ emission standard is 450 kilograms (kg) of CO₂ per megawatt-hour (MWh) of gross energy output (1,000 lb CO₂/MWh); or 470 kg of CO₂ per MWh of net energy output (1,030 lb CO₂/MWh).

(b) For a newly constructed or reconstructed stationary combustion turbine that supplies its design efficiency or 50%, whichever is less, times its potential electric output or less as net-electric sales on either a 12-operating month or a 3-year rolling average basis and combusts more than 90% natural gas on a heat input basis on a 12-operating-month rolling average basis, the CO₂ emission standard is 50 kg CO₂ per gigajoule (GJ) of heat input (120 lb CO₂/mmBTU).

(c) [NA – UNITS ONLY COMBUST NATURAL GAS]

[Note: Numerical values of 1,000 or greater have a minimum of 3 significant figures and numerical values of less than 1,000 have a minimum of 2 significant figures]

END OF TABLE 2 REQUIREMENTS

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

§ 60.5525 What are my general requirements for complying with this subpart?

Combustion turbines qualifying under 40 CFR §60.5520(d)(1) are not subject to any requirements in this section (40 CFR §60.5525) other than the requirement to maintain fuel purchase records for permitted fuel(s). For all other affected sources, compliance with the applicable CO₂ emission standard of 40 CFR Part 60, Subpart TTTT, shall be determined on a 12-operating-month rolling average basis. See Table 1 or 2 of 40 CFR Part 60, Subpart TTTT, for the applicable CO₂ emission standards.

(a)-(c) [N/A - THE STATIONARY COMBUSTION TURBINES ARE SUBJECT TO 40 CFR §60.5520(d)(1)]

§ 60.5535 How do I monitor and collect data to demonstrate compliance?

(a) Combustion turbines qualifying under 40 CFR §60.5520(d)(1) are not subject to any requirements in this section (40 CFR §60.5535) other than the requirement to maintain fuel purchase records for permitted fuel(s). If your combustion turbine uses non-uniform fuels as specified under 40 CFR §60.5520(d)(2), you must monitor heat input in accordance with 40 CFR

§60.5535(c)(1), below, and you must monitor CO₂ emissions in accordance with either 40 CFR §60.5535(b), (c)(2), or (c)(5). (a) For each affected EGU subject to 40 CFR Part 60, Subpart TTTT, you must not discharge from the affected EGU any

gases that contain CO₂ in excess of the applicable CO₂ emission standard specified in Table 1 or 2 of 40 CFR Part 60, Subpart TTTT, consistent with 40 CFR §60.5520(b), (c), and (d), below, as applicable.

(b)-(c) [NA-SOURCES SUBJECT TO §60.5520(d)(1)]

(d) Stationary combustion turbines subject to a heat input-based standard in Table 2 of 40 CFR Part 60, Subpart TTTT, that are only permitted to burn one or more uniform fuels, as described in 40 CFR §60.5520(d)(1), below, are only subject to the monitoring requirements in 40 CFR §60.5520(d)(1). All other stationary combustion turbines subject to a heat input based standard in Table 2 are subject to the requirements in 40 CFR §60.5520(d)(2), below. [NOTE: THE STATIONARY COMBUSTION TURBINES ARE PERMITTED TO ONLY USE NATURAL GAS AND MEET §60.5520(d)(1)]

(1) Stationary combustion turbines that are only permitted to burn fuels with a consistent chemical composition (i.e., uniform fuels) that result in a consistent emission rate of 160 lb CO₂/mmBTU or less are not subject to any monitoring or reporting requirements under 40 CFR Part 60, Subpart TTTT. These fuels include, but are not limited to, natural gas, methane, butane, butylene, ethane, ethylene, propane, naphtha, propylene, jet fuel kerosene, No. 1 fuel oil, No. 2 fuel oil, and biodiesel.

Stationary combustion turbines qualifying under this paragraph (40 CFR §60.5520(d)(1)) are only required to maintain purchase records for permitted fuels.

(2) [N/A - THE STATIONARY COMBUSTION TURBINES ARE NOT PERMITTED TO BURN FUELS THAT DO NOT HAVE A CONSISTENT CHEMICAL COMPOSITION (i.e., NON-UNIFORM FUELS)]

TABLE 2 REQUIREMENTS

Table 2 to 40 CFR Part 60, Subpart TTTT - Standards of Performance for GHG Emissions for Electric Generating Units (CO₂ Emission Standards for Affected Stationary Combustion Turbines That Commenced Construction After January 8, 2014 and Reconstruction After June 18, 2014 (Net Energy Output-Based Standards Applicable as Approved by the Administrator)

(a) For a newly constructed or reconstructed stationary combustion turbine that supplies more than its design efficiency or 50%, whichever is less, times its potential electric output as net-electric sales on both a 12-operating month and a 3-year rolling average basis and combusts more than 90% natural gas on a heat input basis on a 12-operating-month rolling average

basis, the CO₂ emission standard is 450 kilograms (kg) of CO₂ per megawatt-hour (MWh) of gross energy output (1,000 lb CO₂/MWh); or 470 kg of CO₂ per MWh of net energy output (1,030 lb CO₂/MWh).

(b) For a newly constructed or reconstructed stationary combustion turbine that supplies its design efficiency or 50%, whichever is less, times its potential electric output or less as net-electric sales on either a 12-operating month or a 3-year rolling average basis and combusts more than 90% natural gas on a heat input basis on a 12-operating-month rolling average

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basis, the CO₂ emission standard is 50 kg CO₂ per gigajoule (GJ) of heat input (120 lb CO₂/mmBTU).

(c) [NA – UNITS ONLY COMBUST NATURAL GAS]

[Note: Numerical values of 1,000 or greater have a minimum of 3 significant figures and numerical values of less than 1,000

have a minimum of 2 significant figures]

END OF TABLE 2 REQUIREMENTS

§ 60.5525 What are my general requirements for complying with this subpart?

Combustion turbines qualifying under 40 CFR §60.5520(d)(1) are not subject to any requirements in this section (40 CFR §60.5525) other than the requirement to maintain fuel purchase records for permitted fuel(s). For all other affected sources, compliance with the applicable CO₂ emission standard of 40 CFR Part 60, Subpart TTTT, shall be determined on a 12-operating-month rolling average basis. See Table 1 or 2 of 40 CFR Part 60, Subpart TTTT, for the applicable CO₂ emission standards.

(a)-(c) [N/A - THE STATIONARY COMBUSTION TURBINES ARE SUBJECT TO 40 CFR §60.5520(d)(1)]

§ 60.5535 How do I monitor and collect data to demonstrate compliance?

(a) Combustion turbines qualifying under 40 CFR §60.5520(d)(1) are not subject to any requirements in this section (40 CFR §60.5535) other than the requirement to maintain fuel purchase records for permitted fuel(s). If your combustion turbine uses non-uniform fuels as specified under 40 CFR §60.5520(d)(2), you must monitor heat input in accordance with 40 CFR

§60.5535(c)(1), below, and you must monitor CO₂ emissions in accordance with either 40 CFR §60.5535(b), (c)(2), or (c)(5),

(ii) If applicable to your affected EGU (for example, for combined heat and power), you must calculate (Pt)PS using the following equation: [SEE REGULATON FOR EQUATION]

(6) Calculation of annual basis for standard: Sources complying with energy output-based standards must calculate the basis (i.e., denominator) of their actual annual emission rate in accordance with 40 CFR §60.5540(a)(6)(i), below. Sources complying with heat input-based standards must calculate the basis of their actual annual emission rate in accordance with 40 CFR §60.5540(a)(6)(ii), below.

(i) In accordance with 40 CFR §60.5520 if you are subject to an energy output-based standard, you must calculate the total gross or net energy output for the affected EGU's compliance period by summing the hourly gross or net energy output values for the affected EGU that you determined under 40 CFR §60.5540(a)(5), above, for all of the valid operating hours in the applicable compliance period.

(ii) If you are subject to a heat input-based standard, you must calculate the total heat input for each fuel fired during the compliance period. The calculation of total heat input for each individual fuel must include all valid operating hours and must also be consistent with any fuel-specific procedures specified within your selected monitoring option under 40 CFR §60.5535(d)(2).

(7) If you are subject to an energy output-based standard, you must calculate the CO₂ mass emissions rate for each affected EGU (kg/MWh) by dividing the total CO₂ mass emissions value calculated according to the procedures in 40 CFR §60.5540(a)(4), above, by the total gross or net energy output value calculated according to the procedures in 40 CFR §60.5540(a)(6)(i), above. Round off the result to two significant figures if the calculated value is less than 1,000; round the result to three significant figures if the calculated value is greater than 1,000. If you are subject to a heat input-based standard, you must calculate the CO₂ mass emissions rate for each affected EGU (lb/mmBTU) by dividing the total CO₂ mass emissions value calculated according to the procedures in 40 CFR §60.5540(a)(4), above, by the total heat input calculated according to the procedures in 40 CFR §60.5540(a)(6)(ii), above. Round off the result to two significant figures.

(b) In accordance with 40 CFR §60.5520, to demonstrate compliance with the applicable CO₂ emission standard, for the initial and each subsequent 12-operating-month compliance period, the CO₂ mass emissions rate for your affected EGU must be determined according to the procedures specified in 40 CFR §60.5540(a)(1) through (7), above, and must be less

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than or equal to the applicable CO₂ emissions standard in Table 1 or 2 of 40 CFR Part 60, Subpart TTTT, or the emissions standard calculated in accordance with 40 CFR §60.5525(a)(2).

§ 60.5550 What notifications must I submit and when?

(a) You must prepare and submit the notifications specified in 40 CFR §§60.7(a)(1) and (3) and 60.19, as applicable to your affected EGUs (see Table 3 of 40 CFR Part 60, Subpart TTTT). [NOTE: 40 CFR §§60.7(a)(1)&(3) AND 60.19 ARE DESCRIBED BELOW]

(b) [N/A - CEMS ARE NOT REQUIRED]

40 CFR §60.7 REQUIREMENTS

(a) Any owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, as follows:

(1) A notification of the date construction (or reconstruction as defined under 40 CFR §60.15) of an affected facility is commenced postmarked no later than 30 days after such date. This requirement shall not apply in the case of massproduced facilities which are purchased in completed form.

(3) A notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.
END OF 40 CFR §60.7 REQUIREMENTS

[59 FR 12428, Mar. 16, 1994, as amended at 64 FR 7463, Feb. 12, 1998]

§ 60.5555 What reports must I submit and when?

(a) You must prepare and submit reports according to 40 CFR §60.5555(a) through (d), below, as applicable.

(1) For affected EGUs that are required by 40 CFR §60.5525 to conduct initial and on-going compliance determinations on a 12-operating-month rolling average basis, you must submit electronic quarterly reports as follows. After you have accumulated the first 12-operating months for the affected EGU, you must submit a report for the calendar quarter that includes the twelfth operating month no later than 30 days after the end of that quarter. Thereafter, you must submit a report for each subsequent calendar quarter, no later than 30 days after the end of the quarter.

(2) In each quarterly report you must include the following information, as applicable:

(i) Each rolling average CO₂ mass emissions rate for which the last (twelfth) operating month in a 12-operating-month compliance period falls within the calendar quarter. You must calculate each average CO₂ mass emissions rate for the compliance period according to the procedures in 40 CFR §60.5540. You must report the dates (month and year) of the first and twelfth operating months in each compliance period for which you performed a CO₂ mass emissions rate calculation. If there are no compliance periods that end in the quarter, you must include a statement to that effect;

(ii) If one or more compliance periods end in the quarter, you must identify each operating month in the calendar quarter where your EGU violated the applicable CO₂ emission standard;

(iii) If one or more compliance periods end in the quarter and there are no violations for the affected EGU, you must include a statement indicating this in the report;

(iv) The percentage of valid operating hours in each 12-operating-month compliance period described in 40 CFR §60.5555(a)(2)(i), above, (i.e., the total number of valid operating hours (as defined in 40 CFR §60.5540(a)(1)) in that period divided by the total number of operating hours in that period, multiplied by 100 percent);

(v) Consistent with 40 CFR §60.5520, the CO₂ emissions standard (as identified in Table 1 or 2 of 40 CFR Part 60, Subpart TTTT) with which your affected EGU must comply; and

(vi) Consistent with 40 CFR §60.5520, an indication whether or not the hourly gross or net energy output (P_{gross/net})

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

values used in the compliance determinations are based solely upon gross electrical load.

(3) In the final quarterly report of each calendar year, you must include the following:

(i) Consistent with 40 CFR §60.5520, gross energy output or net energy output sold to an electric grid, as applicable to the units of your emission standard, over the four quarters of the calendar year; and

(ii) The potential electric output of the EGU.

(b) You must submit all electronic reports required under 40 CFR §60.5555(a), above, using the Emissions Collection and Monitoring Plan System (ECMPS) Client Tool provided by the Clean Air Markets Division in the Office of Atmospheric Programs of EPA.

(c) [N/A - CEMS ARE NOT REQUIRED]

(d) For affected EGUs subject to the Acid Rain Program, the reports required under 40 CFR §60.5555(a) and (c)(1), above, shall be submitted by:

(1) The person appointed as the Designated Representative (DR) under 40 CFR §72.20; or

(2) The person appointed as the Alternate Designated Representative (ADR) under 40 CFR §72.22; or

(3) A person (or persons) authorized by the DR or ADR under 40 CFR §72.26 to make the required submissions.

(e) [N/A - THE EGUs ARE SUBJECT TO THE ACID RAIN PROGRAM]

(f) [N/A - THE EGUs DO NOT CAPTURE CO₂ TO MEET THE APPLICABLE EMISSION LIMIT]

(g) [N/A - THE EGUs DO NOT CAPTURE CO₂ TO MEET THE APPLICABLE EMISSION LIMIT]
§ 60.5560 What records must I maintain?

(a) You must maintain records of the information you used to demonstrate compliance with 40 CFR Part 60, Subpart TTTT, as specified in 40 CFR §60.7(b) and (f). [NOTE: 40 CFR §§60.7(b)&(f) ARE DESCRIBED BELOW]

(b)(1) For affected EGUs subject to the Acid Rain Program, you must follow the applicable recordkeeping requirements and maintain records as required under Subpart F of 40 CFR Part 75.

(2) [N/A - THE EGUs ARE SUBJECT TO THE ACID RAIN PROGRAM]

(c) You must keep records of the calculations you performed to determine the hourly and total CO₂ mass emissions (tons) for:

(1) Each operating month (for all affected EGUs); and

(2) Each compliance period, including each 12-operating-month compliance period.

(d) Consistent with 40 CFR §60.5520, you must keep records of the applicable data recorded and calculations performed that you used to determine your affected EGU's gross or net energy output for each operating month.

(e) You must keep records of the calculations you performed to determine the percentage of valid CO₂ mass emission rates in each compliance period.

(f) You must keep records of the calculations you performed to assess compliance with each applicable CO₂ mass emissions standard in Table 1 or 2 of 40 CFR Part 60, Subpart TTTT.

(g) [N/A - CEMS ARE NOT REQUIRED; THEREFORE, SITE-SPECIFIC CARBON-BASED F-FACTORS ARE NOT RELEVANT]

**SECTION E. Source Group Plan Approval Restrictions.****40 CFR §60.7 REQUIREMENTS**

(b) Any owner or operator subject to the provisions of 40 CFR Part 60 shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

(f) Any owner or operator subject to the provisions of 40 CFR Part 60 shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records, except as follows:

(1) [N/A - CEMS ARE NOT REQUIRED]

(2) [N/A - CEMS ARE NOT REQUIRED]

(3) The Administrator or delegated authority, upon notification to the source, may require the owner or operator to maintain all measurements as required by 40 CFR §60.7(f), if the Administrator or the delegated authority determines these records are required to more accurately assess the compliance status of the affected source.

END OF 40 CFR §60.7 REQUIREMENTS

§ 60.5565 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review.

(b) You must maintain each record for three (3) years after the date of conclusion of each compliance period.

(c) You must maintain each record on-site for at least two (2) years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §60.7. Records that are accessible from a central location by a computer or other means that instantly provides access at the site meet this requirement. You may maintain the records off-site for the remaining year(s) as required by 40 CFR Part 60, Subpart TTTT.

§ 60.5570 What parts of the general provisions apply to my affected EGU?

Notwithstanding any other provision of 40 CFR Part 60, certain parts of the general provisions in 40 CFR §§60.1 through 60.19, listed in Table 3 to 40 CFR Part 60, Subpart TTTT, do not apply to your affected EGU.

§ 60.5575 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by the EPA, or a delegated authority such as your state, local, or tribal agency. If the Administrator has delegated authority to your state, local, or tribal agency, then that agency (as well as the EPA) has the authority to implement and enforce this subpart. You should contact your EPA Regional Office to find out if this subpart is delegated to your state, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a state, local, or tribal agency, the Administrator retains the authorities listed in paragraphs (b)(1) through (5) of this section and does not transfer them to the state, local, or tribal agency. In addition, the EPA retains oversight of this subpart and can take enforcement actions, as appropriate.

(1) Approval of alternatives to the emission standards.

(2) Approval of major alternatives to test methods.

(3) Approval of major alternatives to monitoring.

(4) Approval of major alternatives to recordkeeping and reporting.

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

(5) Performance test and data reduction waivers under § 60.8(b).

§ 60.5580 What definitions apply to this subpart?

Terms used in 40 CFR Part 60, Subpart TTTT - Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units, as well as Section E, Group 008, are defined in the Clean Air Act; in 40 CFR §60.2 (General Provisions); and in 40 CFR §60.5580.

REGULATORY CHANGES

In the event that 40 CFR Part 60, Subpart TTTT - Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units (NSPS Subpart TTTT) is revised, the permittee shall comply with the revised version of NSPS Subpart TTTT, and shall not be required to comply with any provisions in this plan approval designated as having NSPS Subpart TTTT as their authority, to the extent that such plan approval provisions would be inconsistent with the applicable provisions of the revised NSPS Subpart TTTT.

**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 *****
