

**STATE OF MISSISSIPPI  
AIR POLLUTION CONTROL  
TITLE V PERMIT**

**TO OPERATE AIR EMISSIONS EQUIPMENT**

**THIS CERTIFIES THAT**

Leaf River Energy Center LLC,  
Leaf River Energy Center  
855 Smith County Road 5  
Taylorsville, Mississippi  
Smith County

has been granted permission to operate air emissions equipment in accordance with emission limitations, monitoring requirements and conditions set forth herein. This permit is issued in accordance with Title V of the Federal Clean Air Act (42 U.S.C.A. § 7401 - 7671) and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder.

**Permit Issued:** \_\_\_\_\_

**Effective Date:** As specified herein.

**MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD**

\_\_\_\_\_  
**AUTHORIZED SIGNATURE**  
**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Expires:** [Date not to exceed 5 years from issuance]

**Permit No.:** 2500-00085

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## SECTION 1. GENERAL CONDITIONS

1.1 The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Federal Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(a).)

1.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(b).)

1.3 This permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(c).)

1.4 Prior to its expiration, this permit may be reopened in accordance with the provisions listed below.

(a) This permit shall be reopened and revised under any of the following circumstances:

- (1) Additional applicable requirements under the Federal Act become applicable to a major Title V source with a remaining permit term of 3 or more years. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended.
- (2) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
- (3) The Permit Board or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emission standards or other terms or conditions of the permit.
- (4) The Administrator or the Permit Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

- (b) Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall only affect those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.
- (c) Reopenings shall not be initiated before a notice of such intent is provided to the Title V source by the DEQ at least 30 days in advance of the date that the permit is to be reopened, except that the Permit Board may provide a shorter time period in the case of an emergency.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.G.)

- 1.5 The permittee shall furnish to the DEQ within a reasonable time any information the DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the DEQ copies of records required to be kept by the permittee or, for information to be confidential, the permittee shall furnish such records to DEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(e).)

- 1.6 This permit does not convey any property rights of any sort, or any exclusive privilege.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(d).)

- 1.7 The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(5).)

- 1.8 The permittee shall pay to the DEQ an annual permit fee. The amount of fee shall be determined each year based on the provisions of regulated pollutants for fee purposes and the fee schedule specified in the Commission on Environmental Quality's order which shall be issued in accordance with the procedure outlined in Regulation 11 Miss. Admin. Code Pt. 2, Ch. 6.

- (a) For purposes of fee assessment and collection, the permittee shall elect for actual or allowable emissions to be used in determining the annual quantity of emissions unless the Commission determines by order that the method chosen by the applicant for calculating actual emissions fails to reasonably represent actual emissions. Actual emissions shall be calculated using emission monitoring data or direct emissions measurements for the pollutant(s); mass balance calculations such as the amounts of the pollutant(s) entering and leaving process equipment and where mass balance calculations can be supported by direct measurement of process parameters, such direct measurement data shall be supplied; published emission factors such as

those relating release quantities to throughput or equipment type (e.g., air emission factors); or other approaches such as engineering calculations (e.g., estimating volatilization using published mathematical formulas) or best engineering judgments where such judgments are derived from process and/or emission data which supports the estimates of maximum actual emission.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).)

- (b) If the Commission determines that there is not sufficient information available on a facility's emissions, the determination of the fee shall be based upon the permitted allowable emissions until such time as an adequate determination of actual emissions is made. Such determination may be made anytime within one year of the submittal of actual emissions data by the permittee.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).)

- (c) If at any time within the year the Commission determines that the information submitted by the permittee on actual emissions is insufficient or incorrect, the permittee will be notified of the deficiencies and the adjusted fee schedule. Past due fees from the adjusted fee schedule will be paid on the next scheduled quarterly payment time.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D(2).)

- (d) The fee shall be due September 1 of each year. By July 1 of each year, the permittee shall submit an inventory of emissions for the previous year on which the fee is to be assessed. The permittee may elect a quarterly payment method of four (4) equal payments; notification of the election of quarterly payments must be made to the DEQ by the first payment date of September 1. The permittee shall be liable for penalty as prescribed by State Law for failure to pay the fee or quarterly portion thereof by the date due.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D.)

- (e) If in disagreement with the calculation or applicability of the Title V permit fee, the permittee may petition the Commission in writing for a hearing in accordance with State Law. Any disputed portion of the fee for which a hearing has been requested will not incur any penalty or interest from and after the receipt by the Commission of the hearing petition.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.C.)

- 1.9 No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(8).)

- 1.10 Any document required by this permit to be submitted to the DEQ shall contain a certification by a responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.2.E.)

- 1.11 The permittee shall allow the DEQ, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to perform the following:
- (a) enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
  - (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - (c) inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - (d) as authorized by the Federal Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(2).)

- 1.12 Except as otherwise specified or limited herein, the permittee shall have necessary sampling ports and ease of accessibility for any new air pollution control equipment, obtained after May 8, 1970, and vented to the atmosphere.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(1).)

- 1.13 Except as otherwise specified or limited herein, the permittee shall provide the necessary sampling ports and ease of accessibility when deemed necessary by the Permit Board for air pollution control equipment that was in existence prior to May 8, 1970.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(2).)

- 1.14 Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance where such applicable requirements are included and are specifically identified in the permit or where the permit contains a determination, or summary thereof, by the Permit Board that requirements specifically identified previously are not applicable to the source.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(1).)

1.15 Nothing in this permit shall alter or affect the following:

- (a) the provisions of Section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section;
- (b) the liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- (c) the applicable requirements of the acid rain program, consistent with Section 408(a) of the Federal Act.
- (d) the ability of EPA to obtain information from a source pursuant to Section 114 of the Federal Act.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(2).)

1.16 The permittee shall comply with the requirement to register a Risk Management Plan if permittee's facility is required pursuant to Section 112(r) of the Act to register such a plan.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.H.)

1.17 Expiration of this permit terminates the permittee's right to operate unless a timely and complete renewal application has been submitted. A timely application is one which is submitted at least six (6) months prior to expiration of the Title V permit. If the permittee submits a timely and complete application, the failure to have a Title V permit is not a violation of regulations until the Permit Board takes final action on the permit application. This protection shall cease to apply if, subsequent to the completeness determination, the permittee fails to submit by the deadline specified in writing by the DEQ any additional information identified as being needed to process the application.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.C(2)., R. 6.4.B., and R. 6.2.A(1)(c).)

1.18 The permittee is authorized to make changes within their facility without requiring a permit revision (ref: Section 502(b)(10) of the Act) if:

- (a) the changes are not modifications under any provision of Title I of the Act;
- (b) the changes do not exceed the emissions allowable under this permit;
- (c) the permittee provides the Administrator and the Department with written notification in advance of the proposed changes (at least seven (7) days, or such other time frame as provided in other regulations for emergencies) and the notification includes:

- (1) a brief description of the change(s),
  - (2) the date on which the change will occur,
  - (3) any change in emissions, and
  - (4) any permit term or condition that is no longer applicable as a result of the change;
- (d) the permit shield shall not apply to any Section 502(b)(10) change.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.F(1).)

- 1.19 Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule or, in the absence of an approved schedule, with the appropriate requirements specified in 11 Miss. Admin. Code Pt. 2, Ch. 3., "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 3.)

- 1.20 Except as otherwise provided herein, a modification of the facility may require a Permit to Construct in accordance with the provisions of Regulations 11 Miss. Admin. Code Pt. 2, Ch. 2., "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment," and may require modification of this permit in accordance with Regulations 11 Miss. Admin. Code Pt. 2, Ch. 6., "Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act." Modification is defined as [a]ny physical change in or change in the method of operation of a facility which increases the actual emissions or the potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:

- (a) routine maintenance, repair, and replacement;
- (b) use of an alternative fuel or raw material by reason of an order under Sections 2 (a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;
- (c) use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;
- (d) use of an alternative fuel or raw material by a stationary source which:

- (1) the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51, Subpart I, or 40 CFR 51.166; or
- (2) the source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, or 40 CFR 51.166;
- (e) an increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Subpart I or 40 CFR 51.166; or
- (f) any change in ownership of the stationary source.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.C(15).)

1.21 Any change in ownership or operational control must be approved by the Permit Board.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.D(4).)

1.22 This permit is a Federally approved operating permit under Title V of the Federal Clean Air Act as amended in 1990. All terms and conditions, including any designed to limit the source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act as well as the Commission.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.B(1).)

1.23 Except as otherwise specified or limited herein, the open burning of residential, commercial, institutional, or industrial solid waste, is prohibited. This prohibition does not apply to infrequent burning of agricultural wastes in the field, silvicultural wastes for forest management purposes, land-clearing debris, debris from emergency clean-up operations, and ordnance. Open burning of land-clearing debris must not use starter or auxiliary fuels which cause excessive smoke (rubber tires, plastics, etc.); must not be performed if prohibited by local ordinances; must not cause a traffic hazard; must not take place where there is a High Fire Danger Alert declared by the Mississippi Forestry Commission or Emergency Air Pollution Episode Alert imposed by the Executive Director and must meet the following buffer zones.

- (a) Open burning without a forced-draft air system must not occur within 500 yards of an occupied dwelling.

- (b) Open burning utilizing a forced-draft air system on all fires to improve the combustion rate and reduce smoke may be done within 500 yards of but not within 50 yards of an occupied dwelling.
- (c) Burning must not occur within 500 yards of commercial airport property, private airfields, or marked off-runway aircraft approach corridors unless written approval to conduct burning is secured from the proper airport authority, owner or operator.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.G.)

1.24 Except as otherwise specified herein, the permittee shall be subject to the following provision with respect to emergencies:

- (a) Except as otherwise specified herein, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
- (b) An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.
- (c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
  - (1) an emergency occurred and that the permittee can identify the cause(s) of the emergency;
  - (2) the permitted facility was at the time being properly operated;
  - (3) during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
  - (4) the permittee submitted notice of the emergency to the DEQ within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

- (d) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.G.)

1.25 Except as otherwise specified herein, the permittee shall be subject to the following provisions with respect to upsets, startups, and shutdowns.

- (a) Upsets (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)
  - (1) For an upset, the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed contemporaneous operating logs or other relevant evidence the following:
    - (i) An upset occurred and that the source can identify the cause(s) of the upset;
    - (ii) The source was at the time being properly operated;
    - (iii) During the upset the source took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;
    - (iv) That within 5 working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other noncompliance, and the corrective actions taken and;
    - (v) That as soon as practicable but no later than 24 hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.
  - (2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.
  - (3) This provision is in addition to any upset provision contained in any applicable requirement.

- (4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third party enforcement actions.
- (b) Startups and Shutdowns (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)
- (1) Startups and shutdowns are part of normal source operation. Emission limitations apply during startups and shutdowns unless source specific emission limitations or work practice standards for startups and shutdowns are defined by an applicable rule, regulation, or permit.
  - (2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in this regulation, 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for startups and shutdowns. Source specific emission limitations or work practice standards established for startups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).
  - (3) Where an upset as defined in Rule 1.2 occurs during startup or shutdown, see the upset requirements above.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.10.)

- 1.26 The permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements of 40 CFR Part 61, Subpart M, as adopted by reference in Regulation 11 Miss Admin. Code Pt. 2, R. 1.8. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.8.)

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-001	4735 HP Caterpillar G3616 four stroke lean burn (4SLB) spark ignition (SI) natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-301)
AA-002	4735 HP Caterpillar G3616 4SLB SI natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-302)
AA-003	4735 HP Caterpillar G3616 4SLB SI natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-303)
AA-004	4735 HP Caterpillar G3616 4SLB SI natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-304)
AA-005	5001 HP Caterpillar G3616 4SLB SI natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-305)
AA-006	5001 HP Caterpillar G3616 4SLB SI natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-306)
AA-007	5001 HP Caterpillar G3616 4SLB SI natural gas-fired compressor engine with emissions controlled by an oxidation catalyst (Facility ID No. C-307). This unit has not yet been installed.
AA-008	507 HP Caterpillar C9 compression ignition (CI) diesel-fired emergency generator engine (G-1050)
AA-011	750 MMSCFD Glycol Dehydration Unit Still Vents (M-701SV)
AA-012	750 MMSCFD Glycol Dehydration Unit Still Vents (M-702SV)
AA-015	10.0 MMBtu/hr natural gas-fired Line Heater (H-501)
AA-016	10.0 MMBtu/hr natural gas-fired Line Heater (H-502)
AB-026	2328 HP Caterpillar G3516C 4SLB SI natural gas-fired emergency generator engine (Facility ID No. G-2050)
AA-039	40 HP Olympian G25LTA 4SLB SI natural gas-fired emergency generator engine (Facility ID No. G-1070)
AA-040	40 HP Olympian G25LTA 4SLB SI natural gas-fired emergency generator engine (Facility ID No. G-1071)
AA-041	40 HP Olympian G25LTA 4SLB SI natural gas-fired emergency generator engine (Facility ID No. G-1072)
AA-042	40 HP Olympian G25LTA 4SLB SI natural gas-fired emergency generator engine (Facility ID No. G-1073)
AA-043	Condensate/Slop Water Truck Loading Emissions (T1860-LDG)
AA-044	Lube Oil Truck Loading Emissions
AA-045	15,905 HP (11.86 MW) (121.2 MMBtu/hr) Solar Mars Model 100 Natural Gas-Fired Simple Cycle Combustion Turbine equipped with SoLoNOx
AA-046	11,145 HP (8.31 MW) (83.04 MMBtu/hr) Solar Mars Model 70 Natural Gas-Fired Simple Cycle Combustion Turbine equipped with SoLoNOx
AA-047	1,004 HP Caterpillar G3512 4SLB SI natural gas-fired emergency generator engine (Facility ID No. G-3512)
AA-048	Compressor blowdowns

<b>Emission Point</b>	<b>Description</b>
AA-049	2.75 MMBtu/hr natural gas-fired Glycol Reboiler (M-701)
AA-050	2.75 MMBtu/hr natural gas-fired Glycol Reboiler (M-702)
AA-051	Thermal Oxidizer that controls emissions from glycol reboilers (M-701 and M-702)
AA-052	750 MMSCFD Glycol Dehydration Unit Still Vents (M-703SV)
AT-000	Facility-Wide Storage Tanks
FUG	Facility-Wide Fugitive Emissions

## SECTION 3. EMISSION LIMITATIONS & STANDARDS

### A. Facility-Wide Emission Limitations & Standards

3.A.1 Except as otherwise specified or limited herein, the permittee shall not cause, permit, or allow the emission of smoke from a point source into the open air from any manufacturing, industrial, commercial or waste disposal process which exceeds forty (40) percent opacity subject to the exceptions provided in (a) & (b).

- (a) Startup operations may produce emissions which exceed 40% opacity for up to fifteen (15) minutes per startup in any one hour and not to exceed three (3) startups per stack in any twenty-four (24) hour period.
- (b) Emissions resulting from soot blowing operations shall be permitted provided such emissions do not exceed 60 percent opacity, and provided further that the aggregate duration of such emissions during any twenty-four (24) hour period does not exceed ten (10) minutes per billion BTU gross heating value of fuel in any one hour.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.A.)

3.A.2 Except as otherwise specified or limited herein, the permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, equivalent to that provided in Condition 3.A.1. This shall not apply to vision obscuration caused by uncombined water droplets.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.B.)

3.A.3 For the entire facility, the permittee shall not cause, permit, or allow the emission of particles or any contaminants in sufficient amounts or of such duration from any process as to be injurious to humans, animals, plants, or property, or to be a public nuisance, or create a condition of air pollution.

- (a) The permittee shall not cause or permit the handling, transporting, or storage of any material in a manner which allows or may allow unnecessary amounts of particulate matter to become airborne.
- (b) When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance to property other than that from which it originated or to violate any other provision of 11 Miss. Admin. Code Pt. 2, Ch. 1, the Commission may order such corrected in a way that all air and gases or air and gasborne material leaving the building or equipment are controlled or removed prior to discharge to the open air.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.C.)

**B. Emission Point Specific Emission Limitations & Standards**

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-001 through AA-007, AA-015, AA-016, AB-026, AA-045, and AA-046	11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(b)	3.B.1	PM	$E=0.8808 * I^{-0.1667}$
AA-008, AA-039 through AA-042, AA-047, and AA-049 through AA-051	11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(a)	3.B.2	PM	0.6 lbs/MMBTUH
AA-015, AA-016, AA-049, and AA-050	11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(a)	3.B.3	SO <sub>2</sub>	4.8 lbs/MMBTU
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 1.4.B(2)	3.B.4	H <sub>2</sub> S	One (1) grain per 100 standard cubic feet
AA-001 through AA-007, AA-015, AA-016, AA-039 through AA-042, AB-026, AA-045 through AA-047, AA-049, and AA-050	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Air Construction Permit issued July 1, 2009 and modified August 29, 2014, and as established in Air TVOP issued March 28, 2019, and the TVOP modified herein	3.B.5	Fuel	Combust pipeline quality natural gas
AA-001 through AA-008, AA-039 through AA-042, AB-026, and AA-047	40 CFR 63, Subpart ZZZZ – NESHAP for Stationary Reciprocating Internal Combustion Engines  40 CFR 63.6580, 63.6585(a) and (c), 63.6590(a)(2)(iii), and 63.6590(c)(1), Subpart ZZZZ	3.B.6	HAPs	Applicability

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-001 through AA-007	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014	3.B.7	Control Device	Operational Requirement
AA-001 through AA-007, AA-039 through AA-042, AB-026, and AA-047	40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines  40 CFR 60.4230(a)(4)(i) and (iv), Subpart JJJJ	3.B.8	NO <sub>x</sub> , CO, and VOC	Applicability
AA-001 through AA-004, AB-026, and AA-047	40 CFR 60.4233(e), 60.4234, and Table 1 to 40 CFR 60, Subpart JJJJ	3.B.9		2.0 g/bhp-hr NO <sub>x</sub> or 160 ppmvd @ 15% O <sub>2</sub> per emission source, 4.0 g/bhp-hr CO or 540 ppmvd @ 15% O <sub>2</sub> per emission source, 1.0 g/bhp-hr VOC or 86 ppmvd @ 15% O <sub>2</sub> per emission source
AA-005 through AA-007	40 CFR 60.4233(e), 60.4234, and Table 1 to 40 CFR 60, Subpart JJJJ	3.B.10		1.0 g/bhp-hr NO <sub>x</sub> or 82 ppmvd @ 15% O <sub>2</sub> per emission source, 2.0 g/bhp-hr CO or 270 ppmvd @ 15% O <sub>2</sub> per emission source, 0.7 g/bhp-hr VOC or 60 ppmvd @ 15% O <sub>2</sub> per emission source
AA-008	40 CFR 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines  40 CFR 60.4200(2)(i), Subpart IIII	3.B.11		NMHC + NO <sub>x</sub> , CO, and PM
	40 CFR 60.4205(b), 60.4202(a)(2), 60.4206, 60.4211(a)(3), Subpart IIII, and Tier 3 of Table 1 of 40 CFR 89.112(a)	3.B.12	4.0 g/kW-hr NMHC + NO <sub>x</sub> , 3.5 g/kW-hr CO, 0.2 g/kW-hr PM	
	40 CFR 60.4207(b), Subpart IIII and 40 CFR 80.510(b)	3.B.13	Fuel	15 ppm sulfur content and a min. cetane index of 40 or a max. aromatic content of 35 % volume
AA-011 and AA-012	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014	3.B.14	Hours	≤ 7,008 hours/year per emission source and ≤ 1,500 MMscf/day combined gas throughput
AA-051	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014, and in TVOP modified herein	3.B.15	Control Device	Operational Requirement
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Air Construction Permit issued July 1, 2009, and in TVOP modified herein	3.B.16	Temp.	≥ 1,600 °F combust chamber temperature

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-015 and AA-016	40 CFR 60, Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	3.B.17	SO <sub>2</sub>	Applicability
	40 CFR 60.40c(a), Subpart Dc			
	40 CFR 60.42c(d) and (i), Subpart Dc	3.B.18	Fuel	≤ 0.5% by weight
AA-008 and AA-039 through AA-042	40 CFR 60.4233(d) and Table 1 to 40 CFR 60, Subpart JJJJ	3.B.19	CO and NO <sub>x</sub> + HC	387 g/bhp-hr CO per emission source and 10 g/bhp-hr NO <sub>x</sub> + HC per emission source
AA-008, AA-039 through AA-042, AB-026, and AA-047	40 CFR 60.4209(a), Subpart III and 40 CFR 60.4237(a) and (c), Subpart JJJJ	3.B.20	Hour Meter	Operational Requirement
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Air TVOP issued March 28, 2019	3.B.21	NO <sub>x</sub> , CO, and VOC	≤ 249 tpy per pollutant
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Air TVOP issued March 28, 2019	3.B.22	Formaldehyde	≤ 9.9 tpy
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(10), as established in Air TVOP issued March 28, 2019	3.B.23	Total HAPs	≤ 24.9 tpy
AA-045 and AA-046	40 CFR 60, Subpart KKKKa – Standards of Performance for Stationary Combustion Turbines	3.B.24	NO <sub>x</sub> and SO <sub>2</sub>	Applicability
	40 CFR 60.4300a, 60.4305(a) and (b), and 60.4315a, Subpart KKKKa			
AA-045 and AA-046	40 CFR 60.4330a(a)(2), Subpart KKKKa	3.B.25	SO <sub>2</sub>	0.060 lb SO <sub>2</sub> /MMBTU (20 grains S/100scf)
AA-045 and AA-046	40 CFR 60.4320a(a), (b)(1)-(3), and (d), and Table 1 of Subpart KKKKa	3.B.26	NO <sub>x</sub>	15 ppm at 15% O <sub>2</sub> or 24 ng/J (0.055 lb/MMBtu) while operating at a utilization rate > 45%; or
				25 ppm at 15% O <sub>2</sub> or 40 ng/J (0.092 lb/MMBtu) while operating at a utilization rate ≤ 45%
				150 ppm at 15% O <sub>2</sub> or 240 ng/J (0.55 lb/MMBtu), while operating at less than 70 percent of the base load rating

3.B.1 For Emission Points AA-001 through AA-007, AA-015, AA-016, AB-026, AA-045, and AA-046, the permittee shall not have particulate emissions from fossil fuel burning installations of greater than 10 MMBTU/hr heat input that exceeds the emission rate as

determined by the relationship:

$$E = 0.8808 * I^{-0.1667}$$

where E is the emission rate in pounds per million BTU per hour heat input and I is the heat input in millions of BTU per hour.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(b))

- 3.B.2 For Emission Points AA-008, AA-039 through AA-042, AA-047, AA-049, AA-050, and AA-051, the permittee shall not have particulate emissions from fossil fuel burning installations of less than 10 MMBTU/hr heat input that exceeds 0.6 lb/MMBTU.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3. D(1)(a))

- 3.B.3 For Emission Points AA-015, AA-016, AA-049, and AA-050, the permittee shall not exceed a maximum discharge of sulfur oxides 4.8 pounds (measured as sulfur dioxide) per million BTU heat input.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).)

- 3.B.4 For the entire facility, the permittee shall not cause or permit the emissions for any gas stream which contains hydrogen sulfide in excess of one (1) grain per 100 standard cubic feet (gr/100 scf). Gas streams containing hydrogen sulfide in excess of one (1) grain per 100 standard cubic feet shall be incinerated of not less than 1600 Degrees Fahrenheit for a period of not less than 0.5 seconds, or processed in such a manner which is equivalent to or more effective for the removal of hydrogen sulfide.

(Ref: 11 Miss. Admin. Code Pt. 2, R. 1.4.B(2))

- 3.B.5 For Emission Points AA-001 through AA-007, AA-015, AA-016, AA-039 through AA-042, AB-026, AA-045 through AA-047, AA-049, and AA-050, the permittee shall combust pipeline quality natural gas only.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Air Construction Permit issued July 1, 2009 and modified August 29, 2014, and as established in Air TVOP issued March 28, 2019, and the TVOP modified herein)

- 3.B.6 For Emission Points AA-001 through AA-008, AA-039 through AA-042, AB-026, and AA-047, the permittee is subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR 63, Subpart ZZZZ.

Emission Points AA-001 through AA-007 are new non-emergency spark ignition stationary RICE with a site rating greater than 500 brake HP located at an area source of HAP

emissions. As such, each engine must meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63, Subpart ZZZZ or the General Provisions in Subpart A.

Emission Point AA-007 has not yet been installed.

Emission Point AA-008 is a new emergency compression ignition stationary RICE with a site rating greater than 500 brake HP located at an area source of HAP emissions. As such, the emergency engine must meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart IIII, for compression ignition engines. No further requirements apply for such engines under 40 CFR 63, Subpart ZZZZ or the General Provisions in Subpart A.

Emission Point AB-026 and AA-047 are new emergency spark ignition stationary RICE each with a site rating greater than 500 brake HP located at an area source of HAP emissions. As such, each emergency engine must meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63, Subpart ZZZZ or the General Provisions in Subpart A.

Emission Points AA-039 through AA-042 are new emergency spark ignition stationary RICE with a site rating less than 500 brake HP located at an area source of HAP emissions. As such, each emergency engine must meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63, Subpart ZZZZ or the General Provisions in Subpart A.

(Ref.: 40 CFR 63.6580, 63.6585(a) and (c), 63.6590(a)(2)(iii), and 63.6590(c)(1), Subpart ZZZZ)

- 3.B.7 For Emission Points AA-001 through AA-007, the permittee shall only operate the engines when the emissions are controlled by an oxidation catalyst.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014)

- 3.B.8 For Emission Points AA-001 through AA-007, AA-039 through AA-042, AB-026, and AA-047, the permittee is subject to the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60, Subpart JJJJ, and the General Provisions in Subpart A.

(Ref.: 40 CFR 60.4233(a)(4)(i) and (iv), Subpart JJJJ)

- 3.B.9 For Emission Points AA-001 through AA-004, AB-026, and AA-047, Nitrogen Oxide

(NO<sub>x</sub>) emissions are limited to 2.0 grams per horsepower-hour (g/bhp-hr) or 160 ppmvd @ 15% O<sub>2</sub> from each source, Carbon Monoxide (CO) emissions are limited to 4.0 g/bhp-hr or 540 ppmvd @ 15% O<sub>2</sub> from each source, and Volatile Organic Compound (VOC) emissions are limited to 1.0 g/bhp-hr or 86 ppmvd @ 15% O<sub>2</sub> from each source. Each engine must be operated and maintained such that the engine achieves these emission standards over the entire life of the engine.

(Ref: 40 CFR 60.4233(e), 60.4234, and Table 1 of 40 CFR 60, Subpart JJJJ)

- 3.B.10 For Emission Points AA-005, AA-006, and AA-007, Nitrogen Oxide (NO<sub>x</sub>) emissions are limited to 1.0 grams per horsepower-hour (g/bhp-hr) or 82 ppmvd @ 15% O<sub>2</sub> from each source, Carbon Monoxide (CO) emissions are limited to 2.0 g/bhp-hr or 270 ppmvd @ 15% O<sub>2</sub> from each source, and Volatile Organic Compound (VOC) emissions are limited to 0.7 g/bhp-hr or 60 ppmvd @ 15% O<sub>2</sub> from each source. Each engine must be operated and maintained such that the engine achieves these emission standards over the entire life of the engine.

(Ref: 40 CFR 60.4233(e), 60.4234, and Table 1 of 40 CFR 60, Subpart JJJJ)

- 3.B.11 For Emission Point AA-008, the permittee is subject to the Standards of Performance Standard for Stationary Compressor Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII, and the General Provisions in Subpart A.

(Ref.: 40 CFR 60.4200(2)(i), Subpart IIII)

- 3.B.12 For Emission Point AA-008, Nitrogen Oxides plus Total Non-Methane Hydrocarbons (NMHC + NO<sub>x</sub>) emissions are limited to 4.0 grams per kilowatt-hour (g/kW-hr); Carbon Monoxide (CO) emissions are limited to 3.5 g/kW-hr; and Particulate Matter (PM) emissions are limited to 0.2 g/kW-hr. The permittee must operate and maintain the engine to achieve these emission standards over the entire life of the engine.

(Ref: 40 CFR 60.4205(b), 60.4202(a)(2), 60.4206, 60.4211(a)(3), Subpart IIII and Tier 3 of Table 1 of 40 CFR 89.112(a))

- 3.B.13 For Emission Point AA-008, the permittee shall use diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road diesel fuel. The fuel shall have a maximum sulfur content of 15 ppm and a minimum cetane index of 40 or a maximum aromatic content of 35 percent volume.

(Ref.: 40 CFR 60.4207(b), Subpart IIII and 40 CFR 80.510(b))

- 3.B.14 For Emission Points AA-011 and AA-012, the permittee shall limit the annual hours of operation of each source to 7,008 hours per year or less and shall limit the maximum daily gas throughput through the combined sources to a maximum of 1,500 million standard cubic feet per day for both glycol dehydrator unit still vents.

(Ref.: Air Construction Permit issued July 1, 2009 and modified August 29, 2014)

- 3.B.15 For Emission Points AA-049 and AA-050, the permittee shall only operate the glycol reboilers with emissions controlled by the thermal oxidizer (Emission Point AA-051).

(Ref.: Air Construction Permit issued July 1, 2009 and modified August 29, 2014, and TVOP modified herein)

- 3.B.16 For Emission Point AA-051, the permittee shall operate the thermal oxidizer with a minimal combustion chamber temperature of 1,600 degrees Fahrenheit at all times.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Air Construction Permit issued July 1, 2009 and TVOP modified herein)

- 3.B.17 For Emission Points AA-015 and AA-016, the permittee is subject to Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc.

(Ref.: 40 CFR 60.40c(a), Subpart Dc)

- 3.B.18 For Emission Points AA-015 and AA-016, the permittee shall not burn any fuel oil with a sulfur content in excess of 0.5 weight percent. The fuel oil sulfur limit applies at all times, including startup, shutdown, and malfunction.

(Ref. 40 CFR 60.42c(d) and (i), Subpart Dc)

- 3.B.19 For Emission Points AA-039 through AA-042, Carbon Monoxide (CO) emissions are limited to 387 g/bhp-hr from each source and Nitrogen Oxides plus Hydrocarbon (NO<sub>x</sub> + HC) emissions are limited to 10 g/bhp-hr from each source.

(Ref.: 40 CFR 60.4233(d) and Table 1 to Subpart JJJJ)

- 3.B.20 For Emission Points AA-008, AA-039 through AA-042, AB-026, and AA-047, the permittee must install and operate a non-resettable hour meter on each emergency engine.

(Ref.: 40 CFR 60.4209(a), Subpart IIII, and 40 CFR 60.4237(a) and (c), Subpart JJJJ)

- 3.B.21 For the entire facility, the permittee shall limit facility-wide nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), and volatile organic compounds (VOC) emissions, each, to 249.0 tons per year, as calculated on a rolling, consecutive 12-month basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Air TVOP issued March 28, 2019)

- 3.B.22 For the entire facility, the permittee shall limit facility-wide formaldehyde emissions to 9.9

tons per year, as calculated on a rolling, consecutive 12-month basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Air TVOP issued March 28, 2019)

- 3.B.23 For the entire facility, the permittee shall limit facility-wide total, combined Hazardous Air Pollutant (HAP) emissions to 24.9 tons per year, as calculated on a rolling, consecutive 12-month basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Air TVOP issued March 28, 2019)

- 3.B.24 For Emission Points AA-045 and AA-046, the permittee is subject to the Standards of Performance for Stationary Combustion Turbines, 40 CFR 60, Subpart KKKKa and the General Provisions in Subpart A. Each source qualifies as a new combustion turbine, firing natural gas, at utilization rate > 45 percent.

(Ref.: 40 CFR 60.4300a, 60.4305(a) and (b), and 60.4315a, Subpart KKKKa)

- 3.B.25 For Emission Points AA-045 and AA-046, the permittee shall not burn any fuel which contains total potential sulfur emissions in excess of 26 ng SO<sub>2</sub> /J (0.060 lb SO<sub>2</sub> /MMBTU heat input).

(Ref.: 40 CFR 60.4330a(a)(2), Subpart KKKKa)

- 3.B.26 For Emission Points AA-045 and AA-046, the permittee shall comply with the following NO<sub>x</sub> emission limitation:

- (a) The Input-based NO<sub>x</sub> emission standard of 15 ppm at 15 percent O<sub>2</sub> or 24 ng/J (0.055 lb/MMBtu) while operating at a utilization rate greater than 45 percent (%); or
- (b) The Input-based NO<sub>x</sub> emission standard of 25 ppm at 15 percent O<sub>2</sub> or 40 ng/J (0.092 lb/MMBtu) while operating at a utilization rate less than or equal to 45%; or
- (c) The Input-based NO<sub>x</sub> emission standard of 150 ppm at 15% O<sub>2</sub> or 240 ng/J (0.55 lb/MMBtu) while operating at less than 70 percent of the base load rating.

During each operating hour, the permittee must meet the applicable NO<sub>x</sub> emission standard, which corresponds to a stationary combustion turbine firing natural gas for that operating hour.

The permittee must meet the applicable NO<sub>x</sub> emissions standard during all times that the affected facility is operating (including periods of startup, shutdown, and malfunction).

(Ref.: 40 CFR 60.4320a(a), (b)(1)-(3), and (d), and Table 1 of Subpart KKKKa)

C. Insignificant and Trivial Activity Emission Limitations & Standards

Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.C.1	PM	0.6 lbs/MMBTU
11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.C.2	SO <sub>2</sub>	4.8 lbs/MMBTU

3.C.1 The maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).)

3.C.2 The maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).)

D. Work Practice Standards

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Work Practice
AA-045 and AA-046	40 CFR 60.4333a(a), Subpart KKKKa	3.D.1	NOx & SO <sub>2</sub>	Good air control practices

3.D.1 For Emission Points AA-045 and AA-046, the permittee must operate and maintain the stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

(Ref.: 40 CFR 60.4333a(a), Subpart KKKKa)

## SECTION 4. COMPLIANCE SCHEDULE

- 4.1 Unless otherwise specified herein, the permittee shall be in compliance with all requirements contained herein upon issuance of this permit.
- 4.2 Except as otherwise specified herein, the permittee shall submit to the Permit Board and to the Administrator of EPA Region IV a certification of compliance with permit terms and conditions, including emission limitations, standards, or work practices, by January 31 for the preceding calendar year. If the permit was reissued or modified during the course of the preceding calendar year, the compliance certification shall address each version of the permit. Each compliance certification shall include the following:
- (a) the identification of each term or condition of the permit that is the basis of the certification;
  - (b) the compliance status;
  - (c) whether compliance was continuous or intermittent;
  - (d) the method(s) used for determining the compliance status of the source, currently and over the applicable reporting period;
  - (e) such other facts as may be specified as pertinent in specific conditions elsewhere in this permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(5)(a), (c), & (d).)

- 4.3 The permittee shall submit progress reports consistent with an applicable schedule of compliance and 11 Miss. Admin. Code Pt. 2, R. 6.2.C(8). semiannually, or at such other frequency as is specified in an applicable requirement or by the Permit Board. Such progress reports shall contain the following:
- (a) dates for achieving the activities, milestone(s), or compliance required in the schedule of compliance, and dates when such activities, milestone(s) or compliance were achieved; and
  - (b) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.2.C(8).)

## SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

### A. General Monitoring, Recordkeeping and Reporting Requirements

5.A.1 The permittee shall install, maintain, and operate equipment and/or institute procedures as necessary to perform the monitoring and recordkeeping specified below.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

5.A.2 In addition to the recordkeeping specified below, the permittee shall include with all records of required monitoring information the following:

- (a) the date, place as defined in the permit, and time of sampling or measurements;
- (b) the date(s) analyses were performed;
- (c) the company or entity that performed the analyses;
- (d) the analytical techniques or methods used;
- (e) the results of such analyses; and
- (f) the operating conditions existing at the time of sampling or measurement.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(b)(1).)

5.A.3 Except where a longer duration is specified in an applicable requirement, the permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(b)(2).)

5.A.4 Except as otherwise specified herein, the permittee shall submit reports of any required monitoring by July 31 and January 31 for the preceding six-month period. All instances of deviations from permit requirements must be clearly identified in such reports and all required reports must be certified by a responsible official consistent with 11 Miss. Admin. Code Pt. 2, R. 6.2.E. For applicable periodic reporting requirements in 40 CFR Parts 60, 61, and 63, the permittee shall comply with the deadlines in this condition for reporting conducted on a semiannual basis. Additionally, any required quarterly reports shall be submitted by the end of the month following each calendar quarter (i.e., April 30th, July

31st, October 31st, and January 31st), and any required annual reports shall be submitted by January 31st following each calendar year.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1), 40 CFR 60.19(c), 61.10(g), and 63.10(a)(5))

- 5.A.5 Except as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) working days of the time the deviation began.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(2).)

- 5.A.6 Except as otherwise specified herein, the permittee shall perform emissions sampling and analysis in accordance with EPA Test Methods and with any continuous emission monitoring requirements, if applicable. All test methods shall be those versions or their equivalents approved by the DEQ and the EPA.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

- 5.A.7 The permittee shall maintain records of any alterations, additions, or changes in equipment or operation.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

- 5.A.8 Unless otherwise specified in Section 4, upon permit issuance, the monitoring, testing, recordkeeping, and reporting requirements of Section 5 herein supersede the requirements of any preceding permit to construct and/or operate.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

**B. Specific Monitoring and Recordkeeping Requirements**

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Monitoring/Recordkeeping Requirement
AA-001 through AA-008, AA-015, AA-016, AA-039 through AA-042, AB-026, AA-047, AA-049, AA-050, and AA-051	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2), as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014, and Air TVOP modified herein	5.B.1	Fuel	Fuel monitoring
AA-001 through AA-007	40 CFR 60.4243(b)(2)(ii), Subpart JJJJ	5.B.2	Operations	General recordkeeping
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2), as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014	5.B.3	Operations	Operations monitoring
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2), as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014	5.B.4	Maintenance	General recordkeeping
	40 CFR 60.4243(b)(2)(ii), Subpart JJJJ and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2), as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014	5.B.5	CO, NO <sub>x</sub> , VOC, and Formaldehyde	Performance stack testing
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.B.6	CO and NO <sub>x</sub>	Quarterly portable analyzer monitoring
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2), as established herein	5.B.7	Catalyst	Inspection requirement
AA-001 through AA-007, AA-039 through AA-042, AB-026, and AA-047	40 CFR 60.4245(a), Subpart JJJJ	5.B.8	Operations	General recordkeeping
AA-008	40 CFR 60.4211(a), Subpart IIII	5.B.9	NMHC + NO <sub>x</sub> , CO, and PM	Operational requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Monitoring/Recordkeeping Requirement
	40 CFR 60.4211(c), Subpart IIII	5.B.10	NMHC + NOx, CO, and PM	Compliance Demonstration
	40 CFR 60.4211(f), Subpart IIII	5.B.11	Operations	Emergency operations monitoring
	40 CFR 60.4211(g)(3), Subpart IIII	5.B.12	NMHC + NOx, CO, and PM	Operational requirements
AA-011, AA-012, and AA-052	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2), as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014 and TVOP modified herein	5.B.13	Operations	Monitoring and recordkeeping requirements
AA-051	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2), as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014 and TVOP modified herein	5.B.14	Operations	Monitoring and recordkeeping requirements
		5.B.15	Combustion Chamber Temperature	Monitoring and recordkeeping requirements
AA-015 AA-016	40 CFR 60.48c(g), Subpart Dc	5.B.16	Fuel	Monitoring and recordkeeping requirements
AA-008, AA-039 through AA-042, AB-026, and AA-047	40 CFR 60.4243(a)(1) and (b)(1), Subpart JJJJ	5.B.17	Operations	Operational requirement
	40 CFR 60.4243(d), Subpart JJJJ	5.B.18	Operations	Emergency operations monitoring
	40 CFR 60.4214(b) and 40 CFR 60.4245(b), Subpart JJJJ	5.B.19	Operations	Emergency operations recordkeeping
Facility-Wide	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2), as established in Air TVOP issued March 28, 2019, and modified herein	5.B.20	NOx, CO, VOC, Total HAPs, and Formaldehyde	Monitoring and recordkeeping requirements
AA-045 and AA-046	40 CFR 60.8, 60.4333a(d)(3), 60.4372a(a), and 60.4372a(e)(1), Subpart KKKKa	5.B.21	Fuel Sulfur Content	Monitoring and recordkeeping requirements
AA-045 and AA-046	40 CFR 60.4333a(b)(1)-(4), 60.4340a(a)(1), and 60.4400a, Subpart KKKKa	5.B.22	NOx	Performance Stack Testing

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Monitoring/Recordkeeping Requirement
AA-045 and AA-046	40 CFR 60.4375a(j), Subpart KKKKa	5.B.23	NOx	Parametric Monitoring Plan
AA-045 and AA-046	40 CFR 60.4375a(j), Subpart KKKKa	5.B.24	NOx	Electronic recordkeeping

5.B.1 For Emission Points AA-001 through AA-008, AA-015, AA-016, AA-039 through AA-042, AB-026, AA-047, AA-049, AA-050, and AA-051, the permittee shall monitor fuel usage, including type and quantity of fuel used.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)., as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014, and Air TVOP modified herein)

5.B.2 For Emission Points AA-001 through AA-007, the permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate each engine in a manner consistent with good air pollution control practice for minimizing emissions.

(Ref.: 40 CFR 60.4243(b)(2)(ii), Subpart JJJJ)

5.B.3 For Emission Points AA-001 through AA-007, the permittee shall maintain proper catalyst operation and efficiency.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)., as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014)

5.B.4 For Emission Points AA-001 through AA-007, the permittee shall keep on site a log of all inspections, maintenance, and repairs performed on each engine’s oxidation catalyst.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)., as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014)

5.B.5 For Emission Points AA-001 through AA-007, the permittee shall stack test for Carbon Monoxide (CO) in accordance with EPA Test Method 10 or an approved equivalent, Nitrogen Oxides (NOx) in accordance with EPA Test Method 7E or an approved equivalent, Formaldehyde in accordance with EPA Test Method 320 or 323 or an approved equivalent, and Volatile Organic Compounds (VOC) in accordance with EPA Test Method 18 or an approved equivalent. Performance stack testing must be conducted for each pollutant on each individual engine. Each engine shall operate at the maximum firing rate during the test, and engine operating load data shall be collected during the test.

For Emission Points AA-001 through AA-007 subsequent performance testing must be conducted after the initial performance test every 8,760 hours of operation or 3 years, whichever comes first, and thereafter to demonstrate compliance with emission limitations cited in Condition 3.B.9 for Emission Points AA-001 through AA-004 and with emission limitations cited in Condition 3.B.10 for Emission Points AA-005 through AA-007.

(Ref.: 40 CFR 60.4243(b)(2)(ii), Subpart JJJJ and 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)., as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014)

- 5.B.6 For Emission Points AA-001 through AA-007, the permittee shall conduct quarterly monitoring for Carbon Monoxide (CO) and Nitrogen Oxides (NO<sub>x</sub>) with an approved portable analyzer. Testing shall be conducted in accordance with approved EPA test methods to demonstrate compliance with emission limitations cited in Condition 3.B.9 for Emission Points AA-001 through AA-004 and with emission limitations cited in Condition 3.B.10 for Emission Points AA-005 through AA-007.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)., as established in Air TVOP issued March 28, 2019)

- 5.B.7 For Emission Points AA-001 through AA-007, the permittee shall visually inspect the oxidation catalysts once every six (6) months to ensure proper operation and maintenance. If a catalyst malfunction is detected, the compressor engine shall be taken offline until such a time that repairs can be made.

All inspections, and any maintenance activities made on the oxidation catalysts, shall be kept in log form. This log shall include the date the inspection was made, any problems detected, any corrective action taken to fix the problem and the name of the person responsible for conducting the inspection.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)., as established herein)

- 5.B.8 For Emission Points AA-001 through AA-007, AA-039 through AA-042, AB-026, and AA-047, the permittee shall keep records of the following information:
- (a) All notifications submitted to comply with 40 CFR 60, subpart JJJJ and all documentation supporting any notification;
  - (b) Maintenance conducted on the engines; and
  - (c) Documentation from the manufacturer that the engine is certified to meet the applicable emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060.

(Ref: 40 CFR 60.4245(a), Subpart JJJJ)

5.B.9 For Emission Point AA-008, the permittee shall operate and maintain the emergency engine and control device according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer. In addition, the permittee may only change those settings that are permitted by the manufacturer. The permittee shall also meet the applicable requirements of 40 CFR 89.

(Ref.: 40 CFR 60.4211(a), Subpart III)

5.B.10 For Emission Point AA-008, the permittee shall demonstrate compliance with emission standards specified in Condition 3.B.12 by purchasing an engine certified according to 40 CFR 89, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

(Ref.: 40 CFR 60.4211(c), Subpart III)

5.B.11 For Emission Point AA-008, the permittee must operate the emergency stationary engine according to the requirements cited below. In order for the engine to be considered an emergency stationary engine, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described below, is prohibited. If the engine is not operated according to these requirements, the engine will not be considered an emergency engine under 40 CFR 60, Subpart III and must meet all requirements for non-emergency engines.

- (a) There is no time limit on the use of the emergency engine in emergency situations.
- (b) The engine may be operated for a maximum of 100 hours per calendar year 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 permittee may petition the DEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of engine beyond 100 hours per calendar year.
- (c) The engine 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.

(Ref.: 40 CFR 60.4211(f), Subpart III)

5.B.12 For Emission Point AA-008, if the engine and control device are not installed, configured, operated, and maintained and control device according to the manufacturer's emission-related written instructions, or if emission-related settings are changed in a way that is not permitted by the manufacturer, then a maintenance plan and records of conducted

maintenance must be kept, and must, to the extent practicable, maintain and operate each engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, an initial performance test must be conducted 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 the emission-related settings are changed in a way that is not permitted by the manufacturer. Subsequent performance testing following the initial performance test must be conducted every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

(Ref.: 40 CFR 60.4211(g)(3), Subpart IIII)

- 5.B.13 For Emission Points AA-011, AA-012, and AA-052, the permittee shall monitor and keep records of the hours of operation and the daily gas throughput of each glycol dehydrator unit on a monthly and consecutive twelve month basis.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)., as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014 and TVOP modified herein)

- 5.B.14 For Emission Point AA-051, the permittee shall conduct routine inspections on the thermal oxidizer and conduct proper maintenance as necessary. Records of all inspections and conducted maintenance shall be kept onsite for the thermal oxidizer.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)., as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014 and TVOP modified herein)

- 5.B.15 For Emission Point AA-051, the permittee shall continuously monitor the chamber temperature of the thermal oxidizer and maintain proper burner operation and efficiency. Records of all deviations of the required minimum combustion chamber temperature shall be kept onsite for the thermal oxidizer.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)., as established in Air Construction Permit issued July 1, 2009, and modified August 29, 2014 and TVOP modified herein)

- 5.B.16 For Emission Points AA-015 and AA-016, the permittee shall record and maintain records of the amount of natural gas combusted during each calendar month or record and maintain records of the total amount of natural gas delivered to the facility during each calendar month.

(Ref. 40 CFR 60.48c(g), Subpart Dc)

- 5.B.17 For Emission Points AA-008, AA-039 through AA-042, AB-026, and AA-047, the permittee must operate and maintain each certified emergency engine and control device according to the manufacturer's emission-related written instructions and must keep records

of conducted maintenance to demonstrate compliance. No performance testing is required. The applicable requirements as specified in 40 CFR 1068, Subparts A through D, must also be met. If the engine settings are adjusted according to and consistent with the manufacturer's instructions, the engine will not be considered out of compliance.

(Ref.: 40 CFR 60.4243(a)(1) and (b)(1), Subpart JJJJ)

5.B.18 For Emission Points AA-008, AA-039 through AA-042, AB-026, and AA-047, the permittee must operate the emergency stationary engines according to the requirements cited below. In order for the engines to be considered an emergency stationary engine, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described below, is prohibited. If the engines are not operated according to these requirements, the engines will not be considered emergency engines under 40 CFR 60, subpart JJJJ and must meet all requirements for non-emergency engines.

- (a) There is no time limit on the use of the emergency stationary engines in emergency situations.
- (b) The engines may be operated for a maximum of a 100 hours per calendar year 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 permittee may petition the DEQ for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of each engine beyond 100 hours per calendar year.
- (c) The engines 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.

(Ref.: 40 CFR 60.4243(d), Subpart JJJJ)

5.B.19 For Emission Points AA-008, AA-039 through AA-042, AB-026, and AA-047, the permittee shall monitor and keep records of the hours operated through the non-resettable hour meter on each emergency engine, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

(Ref.: 40 CFR 60.4214(b), Subpart IIII, and 40 CFR 60.4245(b), Subpart JJJJ)

5.B.20 For the entire facility, the permittee shall monitor and record the monthly and consecutive twelve-month rolling total of nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), volatile organic compounds (VOC), formaldehyde, and total hazardous air pollutant (HAP)

emissions. Emissions shall be calculated based on results of the most recent performance stack tests, as well as manufacturer's emissions documentation or other approved emission factors. Such records shall be kept for five years and made available upon request by DEQ personnel.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)., as established in Air TVOP issued March 28, 2019, and modified herein)

- 5.B.21 For Emission Points AA-045 and AA-046, the permittee shall monitor and keep records of the total sulfur content of the gaseous fuel combusted in the turbine. The permittee shall maintain on-site records (such as a current, valid purchase contract, tariff sheet, or transportation contract) documenting that total sulfur content for the fuel combusted in the stationary combustion turbines at all times does not exceed potential SO<sub>2</sub> emissions rate of 26 ng/J (0.060 lb/MMBtu) heat input or less.

Representative fuel sampling data following the procedures specified in section 2.3.1.4 or 2.3.2.4 in appendix D to 40 CFR part 75 documenting that the fuel meets the part 75 requirements to be considered either pipeline natural gas or natural gas such that each stationary combustion turbine may not cause to be discharged into the atmosphere any gases that contain SO<sub>2</sub> in excess of 110 ng SO<sub>2</sub>/J (0.90 lb SO<sub>2</sub>/MWh) gross energy output or 26 ng SO<sub>2</sub>/J (0.060 lb SO<sub>2</sub>/MMBtu) heat input.

(Ref.: 40 CFR 60.8, 60.4333a(d)(3), 60.4372a(a), and 60.4372a(e)(1), Subpart KKKKa)

- 5.B.22 For Emission Points AA-045 and AA-046, the permittee shall demonstrate compliance with NO<sub>x</sub> emission limitations by conducting an initial performance test on each turbine within 60 days after achieving the maximum production rate at which the turbine will be operated, but not later than 180 days after initial startup, according to 40 CFR 60.8 using the applicable methods in 40 CFR 60.4400a, as described below.

The permittee must use the methods in (a) or (b) below to measure the NO<sub>x</sub> concentration for each test run.

- (a) Measure the NO<sub>x</sub> concentration using EPA Method 7E in appendix A-4 to this part, EPA Method 20 in appendix A-7 to this part, EPA Method 320 in appendix A to part 63 of this chapter, or ASTM D6348-12 (Reapproved 2020) (incorporated by reference, see § 60.17). For units complying with the output-based standard, concurrently measure the stack gas flow rate, using EPA Methods 1 and 2 in appendix A-1 to this part, and measure and record the electrical and thermal output from the unit. Then, use Equation 1 to this 40 CFR 60.4400a(b)(1) to calculate the NO<sub>x</sub> emissions rate.
- (b) Measure the NO<sub>x</sub> and diluent gas concentrations using either EPA Method 7E in appendix A-4 to this part and EPA Method 3A in appendix A-2 to this part, or EPA Method 20 in appendix A-7 to this part. In addition, when only natural gas is being combusted ASTM D6522-20 (incorporated by reference, see 40 CFR 60.17) can be

used instead of EPA Method 3A in appendix A-2 to this part or EPA Method 20 in appendix A-7 to this part to determine the oxygen content in the exhaust gas. Concurrently measure the heat input to the unit, using a fuel flowmeter (or flowmeters), an O<sub>2</sub> or CO<sub>2</sub> CEMS along with a stack flow monitor, or the methodologies in appendix F to 40 CFR Part 75, and for units complying with the output-based standard measure the electrical, mechanical, and thermal output of the unit. Use EPA Method 19 in appendix A-7 to 40 CFR Part 60 to calculate the NO<sub>x</sub> emissions rate in lb/MMBtu. Then, use equations 1 and, if necessary, 2 and 3 in 40 CFR 60.4350a(f) to calculate the NO<sub>x</sub> emissions rate in lb/MWh.

- (c) The permittee must use the methods in either (1) or (2) below to select the sampling traverse points for NO<sub>x</sub> and (if applicable) diluent gas.
- (1) The permittee must select the sampling traverse points for NO<sub>x</sub> and (if applicable) diluent gas according to EPA Method 20 in appendix A-7 to 40 CFR Part 60 or EPA Method 1 in appendix A-1 to 40 CFR Part 60 (non-particulate procedures) and sampled for equal time intervals. The sampling must be performed with a traversing single-hole probe, or, if feasible, with a stationary multi-hole probe that samples each of the points sequentially. Alternatively, a multi-hole probe designed and documented to sample equal volumes from each hole may be used to sample simultaneously at the required points.
  - (2) As an alternative to (c)(1) above, the permittee may select the sampling traverse points for NO<sub>x</sub> and (if applicable) diluent gas according to requirements in (i) and (ii) below.
    - (i) Perform a stratification test for NO<sub>x</sub> and diluent pursuant to the procedures specified in section 6.5.6.1(a) through (e) in appendix A to part 75.
    - (ii) Once the stratification sampling is completed, use the following alternative sample point selection criteria for the performance test specified in (A) through (C) below.
      - (A) If each of the individual traverse point NO<sub>x</sub> concentrations is within  $\pm 10$  percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than  $\pm 0.5$  percent CO<sub>2</sub> (or O<sub>2</sub>) from the mean for all traverse points, then the permittee may use three points (located either 16.7, 50.0 and 83.3 percent of the way across the stack or duct, or, for circular stacks or ducts greater than 2.4 meters (7.8 feet) in diameter, at 0.4, 1.2, and 2.0 meters from the wall). The three points must be located along the measurement line that exhibited the highest average NO<sub>x</sub> concentration during the stratification test; or

- (B) For a stationary combustion turbine subject to a NO<sub>x</sub> emissions standard greater than 15 ppm at 15 percent O<sub>2</sub>, the permittee may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid if each of the individual traverse point NO<sub>x</sub> concentrations is within  $\pm 5$  percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than  $\pm 0.3$  percent CO<sub>2</sub> (or O<sub>2</sub>) from the mean for all traverse points; or
  - (C) For a stationary combustion turbine subject to a NO<sub>x</sub> emissions standard less than or equal to 15 ppm at 15 percent O<sub>2</sub>, the permittee may sample at a single point, located at least 1 meter from the stack wall or at the stack centroid if each of the individual traverse point NO<sub>x</sub> concentrations is within  $\pm 2.5$  percent of the mean concentration for all traverse points, or the individual traverse point diluent concentrations differs by no more than  $\pm 0.15$  percent CO<sub>2</sub> (or O<sub>2</sub>) from the mean for all traverse points.
- (d) The performance test must be done at any load condition within  $\pm 25$  percent of 100 percent of the base load rating. The permittee may perform testing at the highest achievable load point, if at least 75 percent of the base load rating cannot be achieved in practice. The permittee must conduct three separate test runs for each performance test. The minimum time per run is 20 minutes.
  - (e) The permittee must conduct subsequent performance tests within 12 calendar months of the date that the previous performance test was conducted, according to the following requirements:
    - (1) If the NO<sub>x</sub> emission result from the most recent performance test is less than or equal to 75 percent of the NO<sub>x</sub> emissions standard for the stationary combustion turbine, the permittee may reduce the frequency of subsequent performance tests to 26 calendar months following the date the previous performance test was conducted. If the results of any subsequent performance test exceed 75 percent of the NO<sub>x</sub> emissions standard for the stationary combustion turbine, the permittee must resume 14-calendar-month performance testing.
    - (2) An affected facility that has not operated for the 60 calendar days prior to the due date of a performance test is not required to perform the subsequent performance test until 45 calendar days or 10 operating days, whichever is longer, after the next operating day. The DEQ must be notified of recommencement of operation consistent with 40 CFR 60.4375a(d).
    - (3) If an affected facility has operated 168 operating hours or less, either in total or using a particular fuel, since the date on which the previous performance test was conducted, the permittee may request that the otherwise required

performance test be postponed until the affected facility has operated more than 168 operating hours, either in total or using a particular fuel, since the date on which the previous performance test was conducted. A request for an extension must be addressed to the relevant air division or office director of the appropriate Regional Office of the U.S. EPA as identified in 40 CFR 60.4(a) for approval at least 30 calendar days prior to the date on which the performance test is required to be conducted. If a postponement is approved, a performance test must be conducted within 45 calendar days after the day that the facility reaches 168 hours of operation since the date on which the previous performance test was conducted. When the facility has operated more than 168 operating hours since the date on which the previous performance test was conducted, the DEQ and EPA must be notified consistent with 40 CFR 60.4375a(e).

(Ref: 40 CFR 60.4333a(b)(1)-(4), 60.4340a(a)(1), and 60.4400a, Subpart KKKKa)

5.B.23 For Emission Points AA-045 and AA-046, the permittee must continuously monitor and record the applicable parameters during the performance test required in Condition 5.B.22, to establish acceptable values and ranges. The permittee may supplement the performance test data with engineering analyses, design specifications, manufacturer's recommendations, and other relevant information to define the acceptable parametric ranges more precisely. The permittee must develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the NOX emission controls. The plan must include the information specified in below:

- (a) Identification of the parameters to be monitored and show there is a significant relationship to emissions and proper operation of the NOX emission controls;
- (b) Selected parameter ranges (or designated conditions) indicative of proper operation of the stationary combustion turbine NOx emission controls, or describe the process by which such range (or designated condition) will be established;
- (c) Explanation of the process the permittee will use to make certain that data is obtained that are representative of the emissions or parameters being monitored (such as detector location, installation specification if applicable);
- (d) Description of quality assurance and control practices used to ensure the continuing validity of the data;
- (e) Description of the frequency of monitoring and the data collection procedures which will be used (e.g., if using a computerized data acquisition over a number of discrete data points with the average (or maximum value) being used for purposes of determining whether an exceedance has occurred); and
- (f) Justification for the proposed elements of the monitoring. If a proposed performance specification differs from manufacturer recommendation, the permittee must explain

the reasons for the differences. The permittee must submit the data supporting the justification, but the permittee may refer to generally available sources of information used to support the justification. The permittee may rely on engineering assessments and other data, provided the permittee demonstrate factors which assure compliance or explain why performance testing is unnecessary to establish indicator ranges.

(Ref.: 40 CFR 60.4342a(a), Subpart KKKKa)

- 5.B.24 For Emission Points AA-045 and AA-046, any records required to be maintained by 40 CFR 60 subpart KKKKa that are submitted electronically via the EPA's CEDRI may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request to a delegated air agency or the EPA as part of an on-site compliance evaluation.

(Ref.: 40 CFR 60.4375a(j), Subpart KKKKa)

C. Specific Reporting Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Reporting Requirement
AA-001 through AA-008, AA-015, AA-016, AA-039 through AA-042, AB-026, AA-045 through AA-047, AA-049, AA-050, and AA-051	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.1	Fuel	Submit semiannual reports of the type and quantity of fuel combusted
AA-001 through AA-008, AB-026, and AA-047	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.2	Maintenance	Submit semiannual reports of maintenance
AA-001 through AA-007	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.3	NO <sub>x</sub> and CO	Submit portable analyzer results
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(c)(1).	5.C.4	NO <sub>x</sub> , CO, VOC, and Formaldehyde	Submit performance stack test notifications and results
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.5	NO <sub>x</sub> , CO, VOC, and Formaldehyde	Submit reports of deviations
AA-051	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.6	VOC and HAPs	Submit reports of deviations
AA-015 and AA-016	40 CFR 60.48c(d), (e), and (j)	5.C.7	SO <sub>2</sub>	Submit semiannual reports of fuel certification
AA-008, AA-039 through AA-042, AB-026, and AA-047	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.8	NO <sub>x</sub> , CO, and VOC	Submit semiannual reports of operations
Facility-wide	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)	5.C.9	NO <sub>x</sub> , CO, VOC, Formaldehyde, and total HAPs	Submit semiannual reports of emissions
AA-045 and AA-046	11 Miss. Admin. Code Pt. 2, R. 6.3.A(c)(1).	5.C.10	NO <sub>x</sub> and SO <sub>2</sub>	Submit performance stack test notifications and results

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant / Parameter Monitored	Reporting Requirement
AA-045 and AA-046	40 CFR 60.4375a, Subpart KKKKa	5.C.11	NOx and SO <sub>2</sub>	Reporting requirements
AA-045 and AA-046	40 CFR 60.8, Subpart A and 40 CFR 60.4333a(d), and 60.4415a(a), Subpart KKKKa	5.C.12	SO <sub>2</sub>	Reporting requirements

5.C.1 For Emission Points AA-001 through AA-008, AA-015, AA-016, AA-039 through AA-042, AB-026, AA-045 through AA-047, AA-049, AA-050, and AA-051, the permittee shall submit semiannual reports showing the fuel usage, including type and quantity of fuel used.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

5.C.2 For Emission Points AA-001 through AA-008, AB-026, and AA-047, the permittee shall submit semiannual reports showing the records of conducted maintenance.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

5.C.3 For Emission Points AA-001 through AA-007, the permittee shall submit results of all required portable analyzer monitoring within thirty (30) days of the date the portable analyzer monitoring is performed.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

5.C.4 For Emission Points AA-001 through AA-007, the permittee shall submit a stack test protocol at least sixty (60) days prior to the scheduled performance stack test date to ensure that all test methods and procedures are acceptable to the DEQ. If the initial stack test protocol is acceptable, subsequent test protocols may be waived if these protocols contain no significant changes. Also, the DEQ must be notified at least ten (10) days prior to the scheduled test date so that an observer may be scheduled to witness the test(s).

The permittee shall submit a report of any stack test results within sixty (60) days of conducting the respective stack test.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(c)(1).)

5.C.5 For Emission Points AA-001 through AA-007, the permittee shall report any deviations from any emission limitation or any occurrences where the compressor engines operated without the oxidation catalyst. This report shall include the time, date, reason for the deviation, and corrective actions or preventive measures taken. The report shall be submitted with five (5) days of the time the deviation began.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 5.C.6 For Emission Point AA-051, the permittee shall report any deviations from the minimum combustion chamber temperature. This report shall include the time, date, reason for the deviation, and corrective actions or preventive measures taken. The report shall be submitted with five (5) days of the time the deviation began.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 5.C.7 For Emission Points AA-015 and AA-016, the permittee shall submit semiannual reports in accordance with Condition 5.A.4 that contains the following information:

- (a) Calendar dates covered in the reporting period;
- (b) Fuel supplier certifications which include:
  - (1) Distillate Oil: The name of the fuel supplier, a statement from the fuel supplier that the oil complies with the specifications under the definition of distillate oil as defined in 40 CFR 60.41c, and the sulfur content or maximum sulfur content of the fuel oil;
  - (2) Other Fuels: The name of the supplier of the fuel, the potential sulfur emissions rate or maximum potential sulfur emissions rate of the fuel in ng/J heat input, and the method used to determine the potential sulfur emissions rate of the fuel
- (c) A certified statement signed by the permittee stating that the records of fuel supplier certifications represent all the fuel combusted during the reporting period

(Ref.: 40 CFR 60.48c(d), (e), and (j), Subpart Dc)

- 5.C.8 For Emission Points AA-008, AA-039 through AA-042, AB-026, and AA-047, the permittee shall submit semiannual reports showing the records of the operation of the engines in emergency and non-emergency service that are recorded through the non-resettable hour meters. Records must indicate the time of operation of the engines and the reason the engines were in operation during that time.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 5.C.9 For the entire facility, the permittee shall submit semiannual reports showing the monthly and twelve (12) month consecutive rolling total emissions of NO<sub>x</sub>, CO, VOC, Formaldehyde, and total HAPs. The reports shall be submitted by January 31 and by July 31 for the previous 12 months.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2))

- 5.C.10 For Emission Points AA-045 and AA-046, the permittee shall submit a stack test protocol at least sixty (60) days prior to the scheduled performance stack test date to ensure that all test methods and procedures are acceptable to the DEQ. If the initial stack test protocol is acceptable, subsequent test protocols may be waived if these protocols contain no significant changes. Also, the DEQ must be notified at least ten (10) days prior to the scheduled test date so that an observer may be scheduled to witness the test(s).

The permittee shall submit a report of any stack test results within sixty (60) days of conducting the respective stack test.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(c)(1).)

- 5.C.11 For Emission Points AA-045 and AA-046, the permittee must submit the following notifications and reports:

- (a) The notification requirements of 40 CFR 60.8 apply to the initial and subsequent performance tests.
- (b) Notification within 15 calendar days after the facility recommences operation if complying with Condition 5.B.22(c)(2).
- (c) Notification within 15 calendar days after the facility has operated more than 168 operating hours since the date the previous performance test was required to be conducted if complying with Condition 5.B.22(c)(3).
- (d) Within 60 days after the date of completing each performance test, the permittee must submit the results following the procedures specified in Condition 5.C.11(g). The permittee must submit the report in a file format generated using the EPA's Electronic Reporting Tool (ERT). Alternatively, the permittee may submit an electronic file consistent with the extensible markup language (XML) schema listed on the EPA's ERT website (<https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>) accompanied by the other information required by 40 CFR 60.8(f)(2) in PDF format.
- (e) The permittee must submit to the DEQ semiannual reports of the following recorded information. Beginning on January 15, 2027, or once the report template for this subpart has been available on the Compliance and Emissions Data Reporting Interface (CEDRI) website (<https://www.epa.gov/electronic-reporting-air-emissions/cedri>) for one year, whichever date is later, submit all subsequent reports using the appropriate electronic report template on the CEDRI website for this subpart and following the procedure specified in Condition 5.C.11(g). The date report templates become available will be listed on the CEDRI website. Unless the DEQ has approved a different schedule for submission of reports, the report must be submitted by the deadline specified in this subpart, regardless of the method in which the report is submitted.

- (f) The permittee must submit notifications or reports to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>). The EPA will make all the information submitted through CEDRI available to the public without further notice to you. Do not use CEDRI to submit information you claim as CBI. Although EPA does not expect persons to assert a claim of CBI, if the permittee wishes to assert a CBI claim for some of the information in the report or notification, the permittee must submit a complete file in the format specified in this subpart, including information claimed to be CBI, to the EPA following the procedures in 40 CFR 60.4375a(g)(1) and (2). Clearly mark the part or all of the information that the permittee claims to be CBI. Information not marked as CBI may be authorized for public release without prior notice. Information marked as CBI will not be disclosed except in accordance with procedures set forth in 40 CFR part 2. All CBI claims must be asserted at the time of submission. Anything submitted using CEDRI cannot later be claimed CBI. Furthermore, under CAA section 114(c), emissions data is not entitled to confidential treatment, and the EPA is required to make emissions data available to the public. Thus, emissions data will not be protected as CBI and will be made publicly available. The permittee must submit the same file submitted to the CBI office with the CBI omitted to the EPA via the EPA's CDX as described earlier herein.
- (g) If the permittee is required to electronically submit a report through CEDRI in the EPA's CDX, the permittee may assert a claim of EPA system outage for failure to timely comply with that reporting requirement. To assert a claim of EPA system outage, the permittee must meet the requirements outlined in 40 CFR 60.4375a(h)(1) through (7).

(Ref.: 40 CFR 60.4375a, Subpart KKKKa)

- 5.C.12 For Emission Points AA-045 and AA-046, within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, the permittee must submit fuel records (such as a current, valid purchase contract, tariff sheet, transportation contract, or results of a fuel analysis) of the total sulfur content of the gaseous fuel combusted in the turbine.

(Ref.: 40 CFR 60.8, Subpart A and 40 CFR 60.4333a(d), and 60.4415a(a), Subpart KKKKa)

## SECTION 6. ALTERNATIVE OPERATING SCENARIOS

6.1 None permitted.

## SECTION 7. TITLE VI REQUIREMENTS

The following are applicable or potentially applicable requirements originating from Title VI of the Clean Air Act – Stratospheric Ozone Protection. The full text of the referenced regulations may be found on-line at <http://www.ecfr.gov/> under Title 40, or DEQ shall provide a copy upon request from the permittee.

- 7.1 If the permittee produces, transforms, destroys, imports or exports a controlled substance or imports or exports a controlled product, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart A – Production and Consumption Controls.
- 7.2 If the permittee performs service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart B – Servicing of Motor Vehicle Air Conditioners.
- 7.3 The permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart E – The Labeling of Products Using Ozone-Depleting Substances, for the following containers and products:
  - (a) All containers in which a class I or class II substance is stored or transported;
  - (b) All products containing a class I substance; and
  - (c) All products directly manufactured with a process that uses a class I substance, unless otherwise exempted by this subpart or, unless EPA determines for a particular product that there are no substitute products or manufacturing processes for such product that do not rely on the use of a class I substance, that reduce overall risk to human health and the environment, and that are currently or potentially available. If the EPA makes such a determination for a particular product, then the requirements of this subpart are effective for such product no later than January 1, 2015.
- 7.4 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart F – Recycling and Emissions Reduction:
  - (a) Servicing, maintaining, or repairing appliances containing class I, class II or non-exempt substitute refrigerants;
  - (b) Disposing of appliances, including small appliances and motor vehicle air conditioners; or
  - (c) Refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recycling and recovery equipment, approved recycling and recovery equipment testing organizations, as well

as persons selling, offering for sale, and/or purchasing class I, class II, or non-exempt substitute refrigerants.

- 7.5 The permittee shall be allowed to switch from any ozone-depleting substance to any acceptable alternative that is listed in the Significant New Alternatives Policy (SNAP) program promulgated pursuant to 40 CFR Part 82, Subpart G – Significant New Alternatives Policy Program. The permittee shall also comply with any use conditions for the acceptable alternative substance.
- 7.6 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart H – Halon Emissions Reduction:
- (a) Any person testing, servicing, maintaining, repairing, or disposing of equipment that contains halons or using such equipment during technician training;
  - (b) Any person disposing of halons;
  - (c) Manufacturers of halon blends; or
  - (d) Organizations that employ technicians who service halon-containing equipment.

## APPENDIX A

### List of Abbreviations Used In this Permit

BACT	Best Available Control Technology
CEM	Continuous Emission Monitor
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COM	Continuous Opacity Monitor
COMS	Continuous Opacity Monitoring System
DEQ	Mississippi Department of Environmental Quality
EPA	United States Environmental Protection Agency
gr/dscf	Grains Per Dry Standard Cubic Foot
HP	Horsepower
HAP	Hazardous Air Pollutant
lb/hr	Pounds per Hour
M or K	Thousand
MACT	Maximum Achievable Control Technology
MM	Million
MMBTUH	Million British Thermal Units per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards for Hazardous Air Pollutants, 40 CFR 61, or National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR 63
NMVOC	Non-Methane Volatile Organic Compounds
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter less than 10 µm in diameter
PM <sub>2.5</sub>	Particulate Matter less than 2.5 µm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration
SIP	State Implementation Plan
SO <sub>2</sub>	Sulfur Dioxide
SSM	Startup, Shutdown, and Malfunction
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOHAP	Volatile Organic Hazardous Air Pollutant
VOC	Volatile Organic Compound

## **APPENDIX B**

### **LIST OF REGULATIONS REFERENCED IN PERMIT**

**The full text of the regulations referenced in this permit may be found on-line at <http://www.deq.state.us.us> and <http://ecfr.gpoaccess.gov>, or the Mississippi Department of Environmental Quality (MDEQ) will provide a copy upon request. A list of regulations referenced in this permit is shown below:**

11 Miss. Admin. Code Pt. 2, Ch. 1, Mississippi Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants (Amended December 14, 2011)

11 Miss. Admin. Code Pt. 2, Ch. 6, Mississippi Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Air Emissions Operating Permit Regulations for the Purpose of Title V of the Federal Clean Air Act (Amended December 14, 2011)

40 CFR Part 82 - Title VI of the Clean Air Act (Stratospheric Ozone Protection)

40 CFR Part 60, Subpart A – General Provisions

40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

40 CFR Part 60, Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

40 CFR Part 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

40 CFR Part 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

40 CFR Part 60, Subpart KKKKa – Standards of Performance for Stationary Combustion Turbines