

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

TO OPERATE AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

SG Resources, Mississippi LLC, Southern Pines Energy Center
2501 Tung Oil Road
Leakesville, Mississippi
Greene 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: August 19, 2010

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD



AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Expires: July 31, 2015

Permit No.: 0860-00013

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APPENDIX A LIST OF ABBREVIATIONS USED IN THIS PERMIT

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.: APC-S-6, Section III.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.: APC-S-6, Section III.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.: APC-S-6, Section III.A.6.c.)
- 1.4 This permit does not convey any property rights of any sort, or any exclusive privilege. (Ref.: APC-S-6, Section III.A.6.d.)
- 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.: APC-S-6, Section III.A.6.e.)
- 1.6 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.: APC-S-6, Section III.A.5.)
- 1.7 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 APC-S-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 judgements where such judgements are derived from process and/or emission data which supports the estimates of maximum actual emission. (Ref.: APC-S-6, Section VI.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.: APC-S-6, Section VI.A.2.) 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.: APC-S-6, Section VI.D.2.)
 - (c) 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.: APC-S-6, Section VI.D.)
 - (d) 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.: APC-S-6, Section VI.C.)
- 1.8 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.: APC-S-6, Section III.A.8.)
- 1.9 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.: APC-S-6, Section II.E.)
- 1.10 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.: APC-S-6, Section III.C.2.)
- 1.11 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.: APC-S-1, Section 3.9(a))
- 1.12 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.: APC-S-1, Section 3.9(b))
- 1.13 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.: APC-S-6, Section III.F.1.)
- 1.14 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.: APC-S-6, Section III.F.2.)
- 1.15 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.: APC-S-6, Section III.H.)

- 1.16 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.: APC-S-6, Section IV.C.2., Section IV.B., and Section II.A.1.c.)
- 1.17 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.: APC-S-6, Section IV.F.)
- 1.18 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 Regulation APC-S-3, "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared. (Ref.: APC-S-3)
- 1.19 Except as otherwise provided herein, a modification of the facility may require a Permit to Construct in accordance with the provisions of Regulations APC-S-2, "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment", and may require modification of this permit in accordance with Regulations APC-S-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 51.166; 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 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."

1.20 Any change in ownership or operational control must be approved by the Permit Board. (Ref.: APC-S-6, Section IV.D.4.)

1.21 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.: APC-S-6, Section III.B.1)

1.22 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 ordinance. 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 air fields, or marked off-runway aircraft approach corridors unless written approval to conduct burning is secured from the proper airport authority, owner or operator. (Ref.: APC-S-1, Section 3.7)

1.23 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.: APC-S-6, Section III.G.)

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

- (a) Upsets (as defined by APC-S-1, Section 2.37)
 - (1) The occurrence of an upset constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards or other requirements of Applicable Rules and Regulations or any applicable permit if the permittee demonstrates through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
 - (i) an upset occurred and that the permittee can identify the cause(s) of the upset;
 - (ii) the source was at the time being properly operated;
 - (iii) during the upset the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit;
 - (iv) the permittee submitted notice of the upset to the DEQ within 5 working days of the time the upset began; and
 - (v) the notice of the upset shall contain a description of the upset, any steps taken to mitigate emissions, and corrective actions taken.
 - (2) In any enforcement proceeding, the permittee 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.

- (b) Startups and Shutdowns (as defined by APC-S-1, Sections 2.34 & 2.29)
- (1) Startups and shutdowns are part of normal source operation. Emissions limitations applicable to normal operation apply during startups and shutdowns except as follows:
 - (i) when sudden, unavoidable breakdowns occur during a startup or shutdown, the event may be classified as an upset subject to the requirements above;
 - (ii) when a startup or shutdown is infrequent, the duration of excess emissions is brief in each event, and the design of the source is such that the period of excess emissions cannot be avoided without causing damage to equipment or persons; or
 - (iii) when the emissions standards applicable during a startup or shutdown are defined by other requirements of Applicable Rules and Regulations or any applicable permit.
 - (2) In any enforcement proceeding, the permittee seeking to establish the applicability of any exception during a startup or shutdown has the burden of proof.
 - (3) In the event this startup and shutdown provision conflicts with another applicable requirement, the more stringent requirement shall apply.
- (c) Maintenance.
- (1) Maintenance should be performed during planned shutdown or repair of process equipment such that excess emissions are avoided. Unavoidable maintenance that results in brief periods of excess emissions and that is necessary to prevent or minimize emergency conditions or equipment malfunctions constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards, or other regulatory requirements if the permittee can demonstrate the following:
 - (i) the permittee can identify the need for the maintenance;
 - (ii) the source was at the time being properly operated;
 - (iii) during the maintenance the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit;

- (iv) the permittee submitted notice of the maintenance to the DEQ within 5 working days of the time the maintenance began or such other times as allowed by DEQ; and
 - (v) the notice shall contain a description of the maintenance, any steps taken to mitigate emissions, and corrective actions taken.
- (2) In any enforcement proceeding, the permittee seeking to establish the applicability of this section has the burden of proof.
- (3) In the event this maintenance provision conflicts with another applicable requirement, the more stringent requirement shall apply. (Ref.: APC-S-1, Section 10)

1.25 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 APC-S-1, Section 8. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-000	Plantwide Fugitive Emissions (AI 17065)
AA-001	BTEX Eliminator
AA-002	2 MMBTU/hr Natural Gas Glycol Dehydration Reboiler #1
AA-003	2 MMBTU/hr Natural Gas Glycol Dehydration Reboiler #2
AA-004	250 MMSCF/D Glycol Dehydration Still Vent #1 with emissions controlled by the BTEX Eliminator, AA-001
AA-005	250 MMSCF/D Glycol Dehydration Still Vent #2 with emissions controlled by the BTEX Eliminator, AA-001
AB-006	300 MMSCF/D Glycol Dehydration Still Vent #3 with emissions controlled by the BTEX Eliminator, AA-001
AA-006	7,695 HP Natural Gas Compressor Engine (Unit A) with emissions controlled by the oxidation catalyst
AA-007	7,695 HP Natural Gas Compressor Engine (Unit B) with emissions controlled by the oxidation catalyst
AA-008	7,695 HP Natural Gas Compressor Engine (Unit C) with emissions controlled by the oxidation catalyst
AA-009	7,695 HP Natural Gas Compressor Engine (Unit D) with emissions controlled by the oxidation catalyst
AA-013	7,695 HP Natural Gas Compressor Engine (Unit E) with emissions controlled by the oxidation catalyst
AA-014	7,695 HP Natural Gas Compressor Engine (Unit F) with emissions controlled by the oxidation catalyst
AA-015	530 HP Diesel Emergency Generator (T-EMGEN)
AA-016	Truck Loading
AA-017	Maintenance Emissions
AA-020	1478 HP Natural Gas Pump Engine with emissions controlled by a non-selective catalyst reduction unit (SWD-9)
AA-101	8,820 Gallon Slop Fixed Roof Water Storage Tank (T-210)
AA-102	8,813 Gallon Fixed Roof Methanol Storage Tank (T-260)
AA-103	3,000 Gallon Fixed Roof Triethylene Glycol Storage Tank (T-250)
AA-104	8,820 Gallon Fixed Roof Diesel Storage Tank (T-270)
AA-105	4,240 Gallon Fixed Roof Coolant (Ambirtrol) Storage Tank (T-220)
AA-106	4,242 Gallon Fixed Roof Lube Oil Storage Tank (T-230)

Emission Point	Description
AA-107	8,820 Gallon Fixed Roof Process Liquids Storage Tank (T-215)
AA-111	1,100 Gallon Fixed Roof Diesel Storage Tank (D-700)
AA-113	4,200 Gallon Fixed Roof Packing Oil Storage Tank (T-280)
AA-115	8,820 Gallon Fixed Roof Used Lube Oil Storage Tank (T-240)

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.: APC-S-1, Section 3.1)

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 Paragraph 3.A.1. This shall not apply to vision obscuration caused by uncombined water droplets. (Ref.: APC-S-1, Section 3.2)

B. Emission Point Specific Emission Limitations & Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-006 through AA-009 AA-013 AA-014 AA-020	APC-S-1, Section 3.4(a)(2)	3.B.1	PM	$E=0.8808 * I^{-0.1667}$ or as otherwise limited by facility modification restrictions
AA-015	APC-S-1, Section 3.4(a)(1)	3.B.2	PM	0.6 lbs/MMBTU or as otherwise limited by facility modification restrictions
AA-006 through AA-009 AA-013 AA-014 AA-020	APC-S-1, Section 4.1(a)	3.B.3	SO ₂	4.8 lbs/MMBTU or as otherwise limited by facility modification restrictions

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-006 through AA-009	Title V Permit issued on August 19, 2010 and modified on Month, Date, Year	3.B.4	NOx	12.72 lb/hr and 27.86 tons/yr. The total aggregate from all six engines is limited to 163.47 tons on 12 month rolling basis
AA-013 AA-014		3.B.5		11.88 lb/hr and 26.01 tons/yr. The total aggregate from all six engines is limited to 163.47 tons on 12 month rolling basis
AA-006 through AA-009		3.B.6	CO	9.86 lb/hr and 21.59 tons/yr. The total aggregate from all six engines is limited to 151.36 tons on 12 month rolling basis
AA-013 AA-014		3.B.7		14.84 lb/hr and 32.51 tons/yr. The total aggregate from all six engines is limited to 151.36 tons on 12 month rolling basis
AA-006 through AA-009 AA-013 AA-014 AA-020	Title V Permit Issued on August 19, 2010	3.B.8	Fuel Restriction	The permittee shall burn only natural gas
AA-006 through AA-009 AA-013 AA-014	Construction Permit Issued March 7, 2003 and Modified December 17, 2004	3.B.10	Operational Restriction	The permittee shall only operate a total of 33,704,100 HP-hr per 12 month rolling total combined for all engines
	Title V Permit issued August 19, 2010 and modified Month, Date, Year	3.B.9	Operation Restriction	The permittee shall only operate the compressor engines with emissions routed to and controlled by the oxidation catalyst
AA-006 through AA-009 AA-013 AA-014	40 CFR 60, Subpart JJJJ	3.B.11	CO	4.0 g/HP-hr
			NOx	2.0 g/HP-hr
			VOC	1.0 g/HP-hr
AA-015	Title V Permit Issued August 19, 2010	3.B.12	Operational Restriction	The permittee shall only operate less than 500 hours per 12 month rolling total
AA-004 AA-005 AB-006	Title V Permit Issued August 19, 2010	3.B.13		The permittee shall operate with emissions routed to and controlled by Emission Point AA-001
AA-015	40 CFR 60, Subpart IIII	3.B.14 3.B.15	NOx CO PM	The permittee is subject to the requirements of 40 CFR 60.4205
AA-020	Title V Permit Issued August 19, 2010 and modified on Month, Date, Year	3.B.16	Operational Restriction	The permittee shall only operate the pump engine with emissions routed to and controlled by the non-selective catalyst unit

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
	40 CFR 60, Subpart JJJJ	3.B.17	CO	1.0 g/HP-hr
			NOx	2.0 g/HP-hr
			VOC	0.7 g/HP-hr

3.B.1 For Emission Points AA-006 through AA-009, AA-013, AA-014 and AA-020, 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 determine 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.: APC-S-1, Section 3.4(a)(2))

- 3.B.2 For Emission Point AA-015, 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.: APC-S-1, Section 3.4(a)(1))
- 3.B.3 For Emission Points AA-006 through AA-009, AA-013, AA-014, and AA-020, the permittee shall not discharge sulfur oxides from any fuel burning installation in which fuel is burned primarily to produce heat of power by indirect heat transfer in excess of 4.8 lb/MMBTU (measured as sulfur dioxide) heat input. (Ref.: APC-S-1, Section 4.1(a))
- 3.B.4 For Emission Points AA-006 through AA-009, the permittee shall limit nitrogen oxide emissions to 12.72 pounds/hour and 27.86 tons/year from each engine, as long as the total aggregate from all six engines does not exceed 163.47 tons on a 12 month rolling basis. (Ref.: Title V Permit Issued August 19, 2010 and modified on Month Date Year)
- 3.B.5 For Emission Points AA-013 and AA-014, the permittee shall limit nitrogen oxide emissions to 11.88 pounds/hour and 26.01 tons/year from each engine, as long as the total aggregate from all six engines does not exceed 163.47 tons on a 12 month rolling basis (Ref.: Title V Permit Issued August 19, 2010 and modified on Month Date Year)
- 3.B.6 For Emission Points AA-006 through AA-009, the permittee shall limit carbon monoxide emissions to 9.86 pounds/hour and 21.59 tons/year from each engine, as long as the total aggregate from all six engines does not exceed 151.36 tons on a 12 month rolling basis. (Ref.: Title V Permit Issued August 19, 2010 and modified on Month Date Year)
- 3.B.7 For Emission Points AA-013, and AA-014, the permittee shall limit carbon monoxide emissions to 14.84 pounds/hour and 32.51 tons/year from each engine, as long as the total aggregate from all six engines does not exceed 151.36 tons on a 12 month rolling basis. (Ref.: Title V Permit Issued August 19, 2010 and modified on Month Date Year)
- 3.B.8 For Emission Points AA-006 through AA-009, AA-013, AA-014, and AA-020, the permittee shall only burn natural gas. (Title V Permit Issued on August 19, 2010)
- 3.B.9 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee shall only operate the compressor engines with emissions routed to and controlled by the oxidation catalyst. (Title V Permit Issued on August 19, 2010 and modified on Month Date Year)
- 3.B.10 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee shall limit the maximum rated total output for the six (6) compressor engines to 33,704,100 HP-hr per 12 month rolling total combined for all engines. (Ref.: Title V Permit Issued August 19, 2010 and modified Month Date Year)
- 3.B.11 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee is subject to the New Source Performance Standard for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60, Subpart JJJJ. The permittee shall have exhaust

emissions of **NO_x** less than 2.0 g/HP-hr, **CO** less than 4.0 HP-hr, and **VOC** less than 1.0 g/HP-hr. (Ref.: 40 CFR 60, Subpart JJJJ)

- 3.B.12 For Emission Point AA-015, the permittee shall only operate less than 500 hour per 12 month rolling total. (Title V Permit Issued August 19, 2010)

- 3.B.13 For Emission Points AA-004, AA-005, and AB-006, the permittee shall only operate with emission routed to and controlled by Emission Point AA-001, the BTEX Eliminator. The BTEX Eliminator shall reduce the concentration of VOCs and HAPs in the gases by 95% weight. (Ref.: Title V Permit Issued on August 19, 2010)

- 3.B.14 For Emission Point AA-015, the permittee is subject to New Source Performance Standard for Stationary Compressor Ignition Internal Combustion Engines in 40 CFR 60, Subpart IIII, and the General Provisions in Subpart A. The permittee shall certify their 2007 model year and later emergency stationary CI ICE to the emission standards specified in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants beginning in model year 2007: NMHC+NO_x: 4 g/KW-hr; CO: 3 g/KW-hr; PM 0.2 g/KW-hr. The permittee shall operate and maintain the stationary CI ICE that achieve the emission standards required in §60.4205 over the entire life of the engine. (Ref.: 40 CFR 60.4205&4206)

- 3.B.15 For Emission Point AA-015, the permittee shall use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad 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))

- 3.B.16 For Emission Point AA-020, the permittee shall only operate the pump engines with emissions routed to and controlled by the non-selective catalyst unit. (Title V Permit Issued on August 19, 2010 and modified on Month Date Year)

- 3.B.17 For Emission Point AA-020, the permittee is subject to the New Source Performance Standard for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60, Subpart JJJJ. The permittee shall have exhaust emissions of **NO_x** less than 1.0 g/HP-hr, **CO** less than 2.0 HP-hr, and **VOC** less than 0.7 g/HP-hr. (Ref.: 40 CFR 60, Subpart JJJJ)

C. Insignificant and Trivial Activity Emission Limitations & Standards

Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
APC-S-1, Section 3.4(a)(1)	3.C.1	PM	0.6 lbs/MMBTU

Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
	& 1.19		or as otherwise limited by facility modification restrictions
APC-S-1, Section 4.1(a)	3.C.2 & 1.19	SO ₂	4.8 lbs/MMBTU or as otherwise limited by facility modification restrictions

- 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.
- 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.

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. 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.: APC-S-6, Section III.C.5.a.,c.,&d.)

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.
- 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.: APC-S-6, Section III.A.3.b.(1)(a)-(f))
- 5.A.3 Except as otherwise specified herein, 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.: APC-S-6, Section III.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 APC-S-6, Section II.E. (Ref.: APC-S-6, Section III.A.3.c.(1))
- 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) days of the time the deviation began. (Ref.: APC-S-6, Section III.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.

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

B. Specific Monitoring and Recordkeeping Requirements

5.B.1 For Emission Points AA-006 through AA-009, AA-013, AA-014, and AA-020, the permittee shall monitor the type and quantity of fuel used. These records shall be maintained in accordance with paragraph 5.A.3. (Ref.: APC-S-6, Section III.A.3.a.(2))

5.B.2 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee shall record of the monthly HP-hrs and hours of operation for each engine and calculate the 12 month rolling total. These records shall be kept in accordance with Condition 5.A.3.

5.B.3 For Emission Points AA-006 through AA-009, AA-013, AA-014, and AA-020, the permittee shall demonstrate compliance with NSPS Subpart JJJJ and CO and NO_x limitations in Conditions 3.B.4-7, by conducting an initial performance test within one (1) year of engine startup and conduct subsequent performance test every 8,760 hours or three (3) years, whichever comes first, thereafter to demonstrate compliance. The permittee shall submit a copy of each performance test conducted within sixty (60) days of the test completion. The permittee shall conduct the required testing in accordance to 40 CFR 60.4244. The test results shall be give consistent with APC-S-2, Section VI.B.3
The permittee shall submit a written test protocol at least thirty (30) days prior to the intended test date(s) to ensure that all test methods and procedures are acceptable to DEQ. Also, the permittee shall notify the DEQ in writing at least ten (10) days prior to the intended test date(s) so that an observer may be afforded the opportunity to witness the test.

5.B.4 For Emission Points AA-006 through AA-009, AA-013, AA-014, and AA-020, the permittee shall keep records of the following:

- 1) All notifications and supporting documentation submitted to comply with 40 CFR 60, Subpart JJJJ;

- 2) Maintenance performed on the engine;
 - 3) If the SI ICE is not certified, or a certified engine is operated in a non-certified manner and is subject to 40 CFR 60.4243 (a)(2), documentation that the engines meet the emission standards.
- 5.B.6 For Emission Point AA-015, the permittee shall monitor and record the hours of operation and the reason the generator was in operation during that time. The records shall be kept in accordance with Condition 5.A.3.
- 5.B.7 For Emission Points AA-004 and AA-005, the permittee shall demonstrate compliance with operating with the emissions routed to and controlled control device, by recording the calculated percent reduction efficiency of Emission Point AA-001, the BTEX Eliminator. These records shall be kept in accordance with Condition 5.A.3.
- 5.B.8 For Emission Point AA-015, the permittee shall install a non-resettable hour meter installed prior to startup of the engine. In addition, the permittee shall meet the monitoring requirements specified in §60.4211. (Ref.: 40 CFR 60.4209)
- 5.B.9 For Emission Points AA-006 through AA-009, AA-013, AA-014, and AA-020, the permittee shall maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; and maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F. The permittee shall maintain proper catalyst operation and efficiency. The permittee shall be in compliance with this condition by March 1, 2013.
- 5.B.10 For Emission Points AA-006 through AA-009, AA-013, AA-014, and AA-020, the permittee shall collect the catalyst inlet temperature data similar to § 63.6625(b); and reduce this data to 4-hour rolling averages, maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and measure the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test. The permittee shall be in compliance with this condition by March 1, 2013.
- 5.B.11 For Emission Point AA-015, the permittee shall operate and maintain the generator according to the manufacturer's written instructions and procedures. In addition, the only settings that will be changed are those permitted by the manufacturer. The permittee shall comply with the emission standards by purchasing an engine certified to the emission standards for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's specifications. Any operation of the generator other than emergency operation, maintenance, and testing will be prohibited. (Ref.: 40 CFR 60.4211)

C. Specific Reporting Requirements

- 5.C.1 For Emission Points AA-006 through AA-009, AA-013, AA-014, and AA-020, the permittee shall submit fuel usage reports summarizing type and quantity of fuel used in accordance with Condition 5.A.4.
- 5.C.2 For Emission Points AA-006 through AA-009, AA-013, and AA-014, the permittee shall submit monthly reports of hours of operation in accordance with Condition 5.A.4.
- 5.C.3 For Emission AA-015, the permittee shall submit report of the hours of operation in accordance with Condition 5.A.4.
- 5.C.4 For Emission Points AA-004 and AA-005, the permittee shall submit percent efficiency report in accordance with Condition 5.A.4.
- 5.C.5 For Emission Points AA-006 through AA-009, AA-013, AA-014, and AA-020, the permittee shall submit report of inlet temperature monitoring and pressure drop of the catalyst bed in accordance with Condition 5.A.4.

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://ecfr.gpoaccess.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;
 - (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, persons

selling class I or class II refrigerants or offering class I or class II refrigerants for sale, and persons purchasing class I or class II 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

APC-S-1	Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants
APC-S-2	Permit Regulations for the Construction and/or Operation of Air Emissions Equipment
APC-S-3	Regulations for the Prevention of Air Pollution Emergency Episodes
APC-S-4	Ambient Air Quality Standards
APC-S-5	Regulations for the Prevention of Significant Deterioration of Air Quality
APC-S-6	Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act
APC-S-7	Acid Rain Program Permit Regulations for Purposes of Title IV of the Federal Clean Air Act
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
lbs/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 _x	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 Fm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration, 40 CFR 52
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOC	Volatile Organic Compound