



State of Mississippi



AIR POLLUTION CONTROL PERMIT

To Construct Air Emissions Equipment

THIS CERTIFIES

Premier Natural Resources II LLC, Mauldin 26 - 14 Number 1 Production Facility
Ridge Road and Oakdale Church Road
Williamsburg, MS
Covington County

has been granted permission to construct air emissions equipment to comply with the emission limitations, monitoring requirements and other conditions set forth herein. This permit is issued in accordance with 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.

Mississippi Environmental Quality Permit Board

Mississippi Department of Environmental Quality

Issued/Modified: AUG 29 2012

Expires:

Permit No. 0640-00054

Agency Interest # 35925

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Premier Natural Resources II LLC, Mauldin 26 - 14 Number 1 Production Facility

Subject Item Inventory

Permit Number:0640-00054

Activity ID No.: PER20120001

Subject Item Inventory:

ID	Designation	Description
AI35925	35925	Natural Gas Compressor Station
AREA1	Fugitive	Facility Connections (MAULFAC)
AREA2	Transfer	Truck Loading (MAULLOAD)
EQPT1	AA-001	0.5 MMBTU/hr Hanover Glycol Dehydrator Heater (MAULDEHY)
EQPT2	AA-002	8.98 MMBTU/hr Caterpillar 1265 BHP Compressor (MAULCOMP)
EQPT3	AA-003	0.5 MMBTU/hr Flamco "Stack-Pack" (MAULHTR)
EQPT4	AA-004	Glycol Regenerator (MAULGLYC)
EQPT5	T-001	Tank Farm (MAULTANKS)
EQPT6	AA-005	1.037 MMBTU/hr 115 HP AJAX Compressor (WELLCOMP)
EQPT7	AA-006	Amine Plant Flash Tank (AMINEFLASH)
EQPT8	AA-007	Amine Plant Regenerator (AMINESTK)
EQPT9	AA-008	3.0 MMBTU/hr Amine Plant Reboiler (AMINEHTR)
EQPT10	AA-009	68 HP Arrow VRG330 Amine Cooler Engine 1(AMINECOOL1)
EQPT11	AA-010	68 HP Arrow VRG330 Amine Cooler Engine 2(AMINECOOL2)
EQPT12	AA-011	95 HP Caterpillar 3304 Amine Engine (AMINEENG)

KEY

ACT = Activity

AREA = Area

CONT = Control Device

AI = Agency Interest

CAFO = Concentrated Animal Feeding Operation

EQPT = Equipment

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KEY

IA = Insignificant Activity

RPNT = Release Point

MAFO = Animal Feeding Operation

TRMT = Treatment

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AI0000035925 (35925) Natural Gas Compressor Station:

Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Particulate Matter	Particulate Matter: For all fuel burning equipment, the permittee shall not cause Particulate Matter emissions to exceed 0.6 pound of particulate matter per million BTU per hour heat input. [APC-S-1 3.4(a)1]
L-2	Opacity	Opacity: For all fuel burning equipment, the permittee shall not cause emissions to obscure an observer's view to a degree in excess of 40% opacity, as determined by EPA Reference Method 9, 40 CFR 60, Appendix A. [APC-S-1 3.2]
L-3	Sulfur Dioxide	Sulfur Dioxide: For all fuel burning equipment, the permittee shall not cause emissions of sulfur dioxide greater than 4.8 lbs of sulfur dioxide per million BTU heat input. [APC-S-1 4.1(a)]
L-4	Fuel Combusted	Fuel Combusted: For all fuel burning equipment, the permittee shall monitor and maintain records documenting the amount and quality of fuels combusted. [APC-S-2 II.B(11)]

Submittal/Action Requirements:

General Condition:

Condition No.	Condition
S-1	General Condition - The permittee shall submit certification of construction: Due within thirty (30) days of completion of construction or installation of an approved stationary source or prior to startup, whichever is earlier. The notification shall certify that construction or installation was performed in accordance with the approved plans and specifications. In the event there is any change in construction from the previously approved plans and specifications or permit, the permittee shall promptly notify MDEQ in writing. If MDEQ determines the changes are substantial, MDEQ may require the submission of a new application to construct with "as built" plans and specifications. Notwithstanding any provision herein to the contrary, the acceptance of an "as built" application shall not constitute a waiver of the right to seek compliance penalties pursuant to State Law. [APC-S-2 V.D]

Condition No.	Condition
S-2	Within fifteen (15) days of beginning actual construction, the permittee must notify DEQ in writing that construction has begun. [APC-S-2 V.C(2)]

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AI0000035925 (continued):

Submittal/Action Requirements:

Condition No.	Condition
S-3	The permittee must notify DEQ in writing when construction does not begin within eighteen (18) months of issuance or if construction is suspended for eighteen (18) months or more. [APC-S-2 V.C(3)]

Narrative Requirements:

General Condition:

Condition No.	Condition
T-1	General Condition: The stationary source shall be designed and constructed so as to operate without causing a violation of any Applicable Rules and Regulations or this permit, without interfering with the attainment and maintenance of State and National Ambient Air Quality Standards, and such that the emission of air toxics does not result in an ambient concentration sufficient to adversely affect human health and well-being or unreasonably and adversely affect plant or animal life beyond the stationary source boundaries. [APC-S-2 V.A]
T-2	General Condition: Any activities not identified in the application are not authorized by this permit. [Miss. Code Ann. 49_17_29 1.b]
T-3	General Condition: The necessary facilities shall be constructed so that solids removed in the course of control of air emissions may be disposed of in a manner such as to prevent the solids from becoming windborne and to prevent the materials from entering State waters without the proper environmental permits. [Miss. Code Ann. 49_17_29]
T-4	General Condition: The air pollution control facilities shall be constructed such that diversion from or bypass of collection and control facilities is not needed except as provided for in Regulation APC-S-1, "Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants", Section 10. [APC-S-1 10]
T-5	General Condition: The permittee shall allow the Mississippi Environmental Quality Commission, the Mississippi Environmental Quality Permit Board, MDEQ staff and/or their authorized representatives, upon the presentation of credentials: a. To enter upon the permittee's premises where an air emission source is located or in which any records are required to be kept under the terms and conditions of this permit; and b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring equipment or monitoring method required in this permit, and to sample any air emission. [Miss. Code Ann. 49_17_21]

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AI0000035925 (continued):

Narrative Requirements:

General Condition:

Condition No.	Condition
T-6	General Condition: After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for good cause shown including, but not limited to, the following: a. Persistent violation of any terms or conditions of this permit; b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or c. A change in any condition that requires either a temporary or permanent reduction or elimination of previously authorized air emissions. [APC-S-2 II.C]
T-7	General Condition: Except for data determined to be confidential under the Mississippi Air & Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Mississippi Department of Environmental Quality Office of Pollution Control. [Miss. Code Ann. 49_17_39]
Condition No.	Condition
T-8	General Condition:This permit is for air pollution control purposes only. [APC-S-2 I.D]
T-9	General Condition: The knowing submittal of a permit application with false information may serve as the basis for the Permit Board to void the permit issued pursuant thereto or subject the applicant to penalties for operating without a valid permit pursuant to State Law. [APC-S-2 II.B(5)]
T-10	General Condition: It is the responsibility of the applicant/permittee to obtain all other approvals, permits, clearances, easements, agreements, etc., which may be required including, but not limited to, all required local government zoning approvals or permits. [APC-S-2 I.D(6)]
T-11	General Condition: The issuance of a permit does not release the permittee from liability for constructing or operating air emissions equipment in violation of any applicable statute, rule, or regulation of state or federal environmental authorities. [APC-S-2 II.B(7)]
T-12	General Condition: 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 the permit, unless halting or reducing activity would create an imminent and substantial endangerment threatening the public health and safety of the lives and property of the people of this state. [APC-S-2 II.B(15)a]

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AI0000035925 (continued):

Narrative Requirements:

Condition No.	Condition
T-13	General Condition: The permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. Sufficient cause for a permit to be reopened shall exist when an air emissions stationary source becomes subject to Title V. 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. [APC-S-2 II.B(15)b]
T-14	General Condition: The permit does not convey any property rights of any sort, or any exclusive privilege. [APC-S-2 II.B(15)c]
T-15	General Condition: 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 permit or, for information claimed to be confidential, the permittee shall furnish such records to the DEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality. [APC-S-2 II.B(15)d]
T-16	General Condition: This permit shall not be transferred except upon approval of the Permit Board. [APC-S-2 XVI.B]
T-17	General Condition: The provisions of this permit are severable. If any provision of the permit, or the application of any provision of the 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. [APC-S-2 I.D(7)]
T-18	General Condition: The permit to construct will expire if construction does not begin within eighteen (18) months from the date of issuance or if construction is suspended for eighteen (18) months or more. [APC-S-2 V.C(1)]
T-19	General Condition: A new stationary source issued a Permit to Construct cannot begin operation until certification of construction by the permittee. [APC-S-2 V.D(3)]
T-20	General Condition: Except as prohibited in APC-S-2, Section V.D.7, after certification of construction by the permittee, the Permit to Construct shall be deemed to satisfy the requirement for a permit to operate until the date the application for issuance or modification of the Title V Permit or the application for issuance or modification of the State Permit to Operate, whichever is applicable, is due. This provision is not applicable to a source excluded from the requirement for a permit to operate as provided by APC-S-2, Section XIII.G. [APC-S-2 V.D(4)]

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AI0000035925 (continued):

Narrative Requirements:

Condition No.	Condition
T-21	General Condition: Except as otherwise specified in APC-S-2, Section V.D.7, the application for issuance or modification of the State Permit to Operate or the Title V Permit, whichever is applicable, is due twelve (12) months after beginning operation or such earlier date or time as specified in the Permit to Construct. The Permit Board may specify an earlier date or time for submittal of the application. Beginning operation will be assumed to occur upon certification of construction, unless the permittee specifies differently in writing. [APC-S-2 V.D(5)]
T-22	General Condition: Except as otherwise specified in APC-S-2, Section V.D.7, upon submittal of a timely and complete application for issuance or modification of a State Permit to Operate or a Title V Permit, whichever is applicable, the applicant may continue to operate under the terms and conditions of the Permit to Construct and in compliance with the submitted application until the Permit Board issues, modifies, or denies the Permit to Operate. [APC-S-2 V.D(6)]
T-23	General Condition: For moderate modifications that require contemporaneous enforceable emissions reductions from more than one emission point in order to net out of PSD/NSR, the applicable Title V Permit to Operate or State Permit to Operate must be modified prior to beginning operation of the modified facilities. [APC-S-2 V.D(7)]
T-24	General Condition: Regarding compliance testing: (a) The results of any emissions sampling and analysis shall be expressed both in units consistent with the standards set forth in any Applicable Rules and Regulations or this permit and in units of mass per time. (b) Compliance testing will be performed at the expense of the permittee. (c) Each emission sampling and analysis report shall include but not be limited to the following: 1. detailed description of testing procedures; 2. sample calculation(s); 3. results; and 4. comparison of results to all Applicable Rules and Regulations and to emission limitations in the permit. [APC-S-2 VI.B(3, 4 and 6)]
T-25	General Condition: The construction of the stationary source shall be performed in such a manner so as to reduce fugitive dust emissions from construction activities to a minimum. [APC-S-2 V.A(4)]

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EQPT0000000001 (AA-001) 0.5 MMBTU/hr Hanover Glycol Dehydrator Heater (MAULDEHY):

Limitation Requirements:

Condition No.	Parameter	Condition
L-1		<p>The permittee shall operate the glycol dehydration unit in a manner that the glycol recirculation rate to not exceed the optimum glycol recirculation rate as determined by the following equation:</p> $L_{opt} = 1.15 * 3.0 * (\text{galTEG} / \text{lb H}_2\text{O}) * ((F * (I - O)) / 24 \text{ hr/day})$ <p>Where L_{opt} = Optimal Circulation Rate (gal/hr) F = Gas Flowrate (MMSCF/D) I = Inlet Water Content (lb/MMSCF) O = Outlet Water Content (lb/MMSCF)</p> <p>If unable to meet sales gas specification for moisture content using the aforementioned formula, GRI-GLYCalc 3.0 or higher may be used to calculate an alternate recirculation rate. [40 CFR 63_SUBPART HH]</p>

Submittal/Action Requirements:

Condition No.	Condition
S-1	<p>The permittee shall determine compliance with control device percent reduction requirement in 40 CFR 63.771(d)(1)(i)(A) by performing EPA Reference Test Method 18 in accordance with 40 CFR 60, Appendix A. The permittee shall use the procedures in 63.772(e)(iii) to calculate percent reduction efficiency. [40 CFR 63_SUBPART HH]</p>

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Permit Number:0640-00054

Activity ID No.: PER20120001

EQPT0000000002 (AA-002) 8.98 MMBTU/hr Caterpillar 1265 BHP Compressor (MAULCOMP):

Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Carbon Monoxide	Carbon Monoxide: The permittee shall have exhaust emissions of CO less than 4.0 g/HP-hr. [40 CFR 60_SUBPART JJJJ]
L-2	Nitrogen oxides	Nitrogen oxides: The permittee shall have exhaust emissions of NOx less than 2.0 g/HP-hr. [40 CFR 60_SUBPART JJJJ]
L-3	VOC	VOC: The permittee shall have exhaust emissions of VOC less than 1.0 g/HP-hr. [40 CFR 60_SUBPART JJJJ]

Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		The permittee shall demonstrate compliance with 40 CFR 60.4233 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 keep records of maintenance performed on the engine and must keep a maintenance plan in accordance with 40 CRF 60.4243. [40 CFR 60_SUBPART JJJJ]

GENERAL INFORMATION

Premier Natural Resources II LLC, Mauldin 26 - 14 Number 1 Production Facility
Ridge Road and Oakdale Church Road
Williamsburg, MS
Covington County

Alternate/Historic Identifiers

ID	Alternate/Historic Name	User Group	Start Date	End Date
35925	Premier Natural Resources II, LLC	Official Site Name	7/31/2012	
064000054	EOG Resources Inc, Mauldin 26 14 Number 1 Production Facility	Air-Construction	12/18/2008	8/29/2012
2803100054	Prmr Natr'l Resources II LLC, Mauldin 26 14 Num 1	Air-AIRS AFS (MDEQ USE ONLY)	12/18/2008	
35925	EOG Resources, Inc.	Historic Site Name	7/9/2007	7/31/2012
064000054	Premier Natural Resources II LLC, Mauldin 26 - 14 Number 1 Production Facility	Air-Construction	8/29/2012	

Basin: Pascagoula River Basin

Location Description: