

State of Mississippi

AIR POLLUTION CONTROL PERMIT

Permit To Construct Air Emissions Equipment

THIS CERTIFIES Mississippi Power Company, Operations Center 16006 Vick Road Gulfport, MS Harrison 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 2 3 2011 Permit No. 1020-00194 Expires: Agency Interest # 53802

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Subject Item Inventory
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Mississippi Power Company, Operations Center Subject Item Inventory Permit Number:1020-00194 Activity ID No.: PER20100002

Subject Item Inventory:

ID	Designation	Description
AI53802		
EQPT1	AA-001	1250 KW Diesel Fueled Generator #1
EQPT2	AA-002	1250 KW Diesel Fueled Generator #2
EQPT3	AA-003	Emergency/Standby Generator Fuel Tank (7500 Gallons tank capacity)
EQPT4	AA-004	Emergency/Standby Generator Fuel Tank (7500 Gallons Tank capacity)

Subject Item Groups:

ID	Description	Components
-	Emergency/ Standby Generator Fuel Tanks (7,500 gallons)	EQPT3 Emergency/Standby Generator Fuel Tank (7500 Gallons tank capacity)
		EQPT4 Emergency/Standby Generator Fuel Tank (7500 Gallons Tank capacity)

KEY	
ACT = Activity	AI = Agency Interest
AREA = Area	CAFO = Concentrated Animal Feeding Operation
CONT = Control Device	EQPT = Equipment
IA = Insignificant Activity	MAFO = Animal Feeding Operation
RPNT = Release Point	TRMT = Treatment

Mississippi Power Company, Operations Center Facility Requirements Permit Number:1020-00194 Activity ID No.: PER20100002

AI0000053802:

Submittal/Action Requirements:

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]
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)]
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)]
	e Requirements: ral 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]

Mississippi Power Company, Operations Center Facility Requirements Permit Number:1020-00194 Activity ID No.: PER20100002

AI0000053802 (continued):

Narrative Requirements:

General Condition:

Condition No.	Condition	
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, MDE 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 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] 	
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. Persistant 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)]	

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AI0000053802 (continued):

Narrative Requirements:

Condition No.	Condition		
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 an 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]		
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)]		

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AI0000053802 (continued):

Narrative Requirements:

Condition No. Condition 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 T-20 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)] 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)] 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 T-22 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)] General Condition: For moderate modifications that require contemporaneous enforceable emissions reductions from more than one emission point in order to net T-23 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)] General Condition: The construction of the stationary source shall be performed in such a manner so as to reduce fugitive dust emissions from construction T-25 activities to a minimum. [APC-S-2 V.A(4)]

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Mississippi Power Company, Operations Center Facility Requirements Permit Number:1020-00194 Activity ID No.: PER20100002

EQPT000000001 (AA-001) 1250 KW Diesel Fueled Generator #1:

Limitation Requirements:

Condition No.	Parameter	Condition
	1 drameter	
L-1	Hydrocarbon	Hydrocarbon: Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards of 1.3 g/KW-hr. Owners and operators of pre-2007 model year non emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1). [40 CFR 60.4204(a)]
L-2	Carbon Monoxide	Carbon Monoxide: Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards of 11.4 g/KW-hr. Owners and operators of pre-2007 model year non emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1). [40 CFR 60.4204(a)]
L-3	Particulate Matter	Particulate Matter: The maximum permissable emission of ash and/or particulate matter from fossil fuel burning installations shall be limited as the following:
		Emissions from installations equal to or grater than 10 million BTU per hour heat input but less than 10,000 million BTU per hous heat input shall not exceed an emission rate as determined by the relationship
		E= 0.8808 * I^ (-0.667)
		where E is the emission rate in pounds per million BTU per hour input and I is the heat iput in millions of BTU per hour. [APC-S-1 3.4.a(2)]
L-4	Particulate Matter	Particulate Matter: Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards of 0.54 g/KW-hr. Owners and operators of pre-2007 model year non emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1). [40 CFR 60.4204(a)]

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EQPT000000001 (continued):

Limitation Requirements:

Condition No.	n Parameter	Condition
L-5	Nitrogen oxides	Nitrogen oxides: Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards of 9.2 g/KW-hr. Owners and operators of pre-2007 model year non emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1). [40 CFR 60.4204(a)]
L-6	Opacity	Opacity: The opacity shall be limited to 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A. [APC-S-1 3.1.a]
L-7	Sulfur Dioxide	Sulfur Dioxide: The maximum discharge of sulfur dioxides 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 lbs per million BTU heat input. [APC-S-1 4.1.a]
L-8		The permittee shall only operate the emergency generator less than 700 hours per 12 month rolling total. [APC-S-2 II.B(10)]
L-9		The permittee is subject to the New Source Performance Standard for Stationary Compressor Ignition Internal Cumbustion Engines in 40 CFR 60, Subpart IIII and the General Provisions in Subpart A. The permittee shall be in compliance with this subpart by. [40 CFR 60_Subpart IIII]
L-10		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.
		For pre-2011 model year stationary compression ignition internal combustion engines, the permittee may petition MDEQ for approval to use remaining non-compliant fuel that does not meet the fuel requirements beyond October 1, 2010 for purpose of using up exisiting fuel inventories. If approved, the petition will be valid for a period of up to six (6) months. If additional time is needed, a new petition may be submitted to MDEQ. [40 CFR 60_Subpart IIII]
L-11		The permittee shall comply with 40 CFR Part 63, Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart IIII. No further requirements apply for these engines under Subpart ZZZZ. [40 CFR 63.6590]

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EQPT000000001 (continued):

Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		The permittee shall record the hours of operation of the emergency generator. [APC-S-2 II.B(10)]
M-2		The permittee shall have a non-resettable hour meter installed prior to startup of the engine. [40 CFR 60_Subpart IIII]
M-3		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 a 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 emergency operation, maintenance, and testing will be prohibited. [40 CFR 60_Subpart IIII]
Record-	Keeping Requirements:	

Condition No.	Condition
R-1	The permittee shall record the hours of operations of the generator and the reason the generator was in operation during that time. [40 CFR 60_Subpart IIII]

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Mississippi Power Company, Operations Center Facility Requirements Permit Number:1020-00194 Activity ID No.: PER20100002

EQPT000000002 (AA-002) 1250 KW Diesel Fueled Generator #2:

Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Hydrocarbon	Hydrocarbon: Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards of 1.3 g/KW-hr. Owners and operators of pre-2007 model year non emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1). [40 CFR 60.4204(a)]
L-2	Carbon Monoxide	Carbon Monoxide: Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards of 11.4 g/KW-hr. Owners and operators of pre-2007 model year non emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1). [40 CFR 60.4204(a)]
L-3	Particulate Matter	Particulate Matter: The maximum permissable emission of ash and/or particulate matter from fossil fuel burning installations shall be limited as the following:
		Emissions from installations equal to or grater than 10 million BTU per hour heat input but less than 10,000 million BTU per hous heat input shall not exceed an emission rate as determined by the relationship
		E= 0.8808 * I^ (-0.667)
		where E is the emission rate in pounds per million BTU per hour input and I is the heat iput in millions of BTU per hour. [APC-S-1 3.4.a(2)]
L-4	Particulate Matter	Particulate Matter: Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards of 0.54 g/KW-hr. Owners and operators of pre-2007 model year non emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1). [40 CFR 60.4204(a)]

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Mississippi Power Company, Operations Center Facility Requirements Permit Number:1020-00194 Activity ID No.: PER20100002

EQPT000000002 (continued):

Limitation Requirements:

Conditio No.	on Parameter	Condition
L-5	Nitrogen oxides	Nitrogen oxides: Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards of 9.2 g/KW-hr. Owners and operators of pre-2007 model year non emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1). [40 CFR 60.4204(a)]
L-6	Opacity	Opacity: The opacity shall be limited to 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A. [APC-S-1 3.1.a]
L-7	Sulfur Dioxide	Sulfur Dioxide: The maximum discharge of sulfur dioxides 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 lbs per million BTU heat input. [APC-S-1 4.1.a]
L-8		The permittee shall only operate the emergency generator less than 700 hours per 12 month rolling total. [APC-S-2 II.B(10)]
L-9		The permittee is subject to the New Source Performance Standard for Stationary Compressor Ignition Internal Cumbustion Engines in 40 CFR 60, Subpart IIII and the General Provisions in Subpart A. The permittee shall be in compliance with this subpart by. [40 CFR 60_Subpart IIII]
L-10		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.
		For pre-2011 model year stationary compression ignition internal combustion engines, the permittee may petition MDEQ for approval to use remaining non-compliant fuel that does not meet the fuel requirements beyond October 1, 2010 for purpose of using up exisiting fuel inventories. If approved, the petition will be valid for a period of up to six (6) months. If additional time is needed, a new petition may be submitted to MDEQ. [40 CFR 60_Subpart IIII]
L-11		The permittee shall comply with 40 CFR Part 63, Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart IIII. No further requirements apply for these engines under Subpart ZZZZ. [40 CFR 63.6590]

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EQPT000000002 (continued):

Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		The permittee shall record the hours of operation of the emergency generator. [APC-S-2 II.B(10)]
M-2		The permittee shall have a non-resettable hour meter installed prior to startup of the engine. [40 CFR 60_Subpart IIII]
M-3		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 a 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 emergency operation, maintenance, and testing will be prohibited. [40 CFR 60_Subpart IIII]
Record-	Keeping Requirements:	

Condition No.	Condition
R-1	The permittee shall record the hours of operations of the generator and the reason the generator was in operation during that time. [40 CFR 60_Subpart IIII]

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GRPT000000002 (Emergency Generator Fuel Tanks) Emergency/ Standby Generator Fuel Tanks (7,500 gallons):

Narrative Requirements:

Condition No.	Condition
T-1	Such air emission equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants. [APC-S-2 II.B(2)]

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GENERAL INFORMATION

Mississippi Power Company, Operations Center 16006 Vick Road Gulfport, MS Harrison County

Alternate/Historic Identifiers

ID	Alternate/Historic Name	User Group	Start Date	End Date
53802	Mississippi Power Company	Official Site Name	7/14/2010	
102000194	Mississippi Power Company, Operations Center	Air-Synthetic Minor Operating	8/23/2011	7/31/2016
102000194	Mississippi Power Company, Operations Center	Air-Construction	8/23/2011	

Basin: Coastal Streams Basin

Location Description:

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