



**State of Mississippi**

**AIR POLLUTION CONTROL PERMIT**



**Permit To Construct Air Emissions Equipment**

**THIS CERTIFIES**

**Mississippi Power Company, Plant Victor J Daniel  
Highway 63 North  
Escatawpa, MS  
Jackson 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: DEC 07 2011

Expires:

Permit No. 1280-00090

Agency Interest # 1321

## Table of Contents

Subject Item Inventory.....	i
Facility Requirements.....	1
General Information.....	A-1
Other Relevant Documents:	

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

Mississippi Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants, APC-S-1

Mississippi Permit Regulation for the Construction and/or Operation of Air Emission Equipment, APC-S-2

Standards of Performance for Fossil-Fuel-Fired Steam Generators for which Construction is commenced after August 17, 1971, 40 CFR Part 60, Subpart D

Standards of Performance for New Stationary Source General Provisions, 40 CFR Part 60, Subpart A

Acid Rain Regulations, 40 CFR Part 72 through 78

Clean Air Interstate Rule, 40 CFR §51.123, 40 CFR §51.124, 40 CFR §96.102 through 40 CFR §96.388

Cross State Air Pollution Rule, 40 CFR Part 97, Subpart BBBBB

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Subject Item Inventory

Permit Number:1280-00090

Activity ID No.: PER20100002

### Subject Item Inventory:

ID	Designation	Description
AI1321	1321	Steam Electric Generating Facility
EQPT27	AA-001	Emission point AA-001 - unit #1, the 5,460.5 MMBtu/hr (nominal) tangentially-fired utility boiler equipped with an electrostatic precipitator, low NOx burners with over-fire air delivery system and a flue gas desulfurization system. This unit is permitted to combust coal (bituminous and subbituminous), #2 fuel oil, #6 fuel oil, used oil, petroleum contaminated soil, boiler cleaning waste, natural gas and wood waste
EQPT28	AA-002	Emission point AA-002 - unit #2, the 5,460.5 MMBtu/hr (nominal) tangentially-fired utility boiler equipped with an electrostatic precipitator, low NOx burners with over-fire air delivery system and a flue gas desulfurization system. This unit is permitted to combust coal (bituminous and subbituminous), #2 fuel oil, #6 fuel oil, used oil, petroleum contaminated soil, boiler waste, natural gas and wood waste
EQPT29	AA-029	Common bypass stack for emissions from unit #1 and unit #2 when bypassing the flue gas desulfurization system
EQPT31	AA-030	Limestone storage silo equipped with a baghouse for unit 1 flue gas desulfurization system process line
EQPT32	AA-032	Limestone slurry mixing tank equipped with a venturi scrubber for unit 1 flue gas desulfurization system process line
EQPT33	AA-033	Limestone slurry mixing tank equipped with a venturi scrubber for unit 2 flue gas desulfurization system
EQPT34	AA-031	Limestone storage silo equipped with a baghouse for unit 2 flue gas desulfurization system

### Subject Item Groups:

ID	Description	Components
GRPT3	limestone processing including the limestone storage silo (AA-030) and the limestone slurry mixing tank (AA-032) to supply limestone to unit #1 flue gas desulfurization system.	EQPT31 Limestone storage silo equipped with a baghouse for unit 1 flue gas desulfurization system process line
		EQPT32 Limestone slurry mixing tank equipped with a venturi scrubber for unit 1 flue gas desulfurization system process line
GRPT4	limestone processing including the limestone storage silo (AA-031) and the limestone slurry mixing tank (AA-033) to supply limestone to unit #2 flue gas desulfurization system.	EQPT33 Limestone slurry mixing tank equipped with a venturi scrubber for unit 2 flue gas desulfurization system

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Subject Item Inventory

Permit Number:1280-00090

Activity ID No.: PER20100002

ID	Description	Components
GRPT4	limestone processing including the limestone storage silo (AA-031) and the limestone slurry mixing tank (AA-033) to supply limestone to unit #2 flue gas desulfurization system.	EQPT34 Limestone storage silo equipped with a baghouse for unit 2 flue gas desulfurization system

### Receiving Stream Relationships:

Subject Item	Relationship	Receiving Stream
AI 1321 Steam Electric Generating Facility	Discharges Into	Black Creek

#### KEY

ACT = Activity

AREA = Area

CONT = Control Device

IA = Insignificant Activity

RPNT = Release Point

AI = Agency Interest

CAFO = Concentrated Animal Feeding Operation

EQPT = Equipment

MAFO = Animal Feeding Operation

TRMT = Treatment

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 1 of 17

### AI0000001321 (1321) Steam Electric Generating Facility:

#### Record-Keeping Requirements:

Condition No.	Condition
R-1	For emission point AA-001, AA-002 and AA-029, the permittee shall monitor, calculate and maintain a record of annual emissions and report annual emissions for NO <sub>x</sub> , SO <sub>2</sub> , H <sub>2</sub> SO <sub>4</sub> , PM, PM <sub>10</sub> , PM <sub>2.5</sub> , CO, VOC, Lead and GHG, in tons per year, for a period of 5 years following the start of operation of the flue gas desulfurization unit. Annual emissions shall include startup, shutdown and malfunction. The report shall be submitted within 60 days of the end of each calendar year. The calendar year shall start when the flue gas desulfurization systems begins operation. [APC-S-2 II.B(11), APC-S-5]

#### 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)]

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 2 of 17

### AI0000001321 (continued):

#### 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 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]
T-5	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-6	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]

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 3 of 17

### AI0000001321 (continued):

#### Narrative Requirements:

Condition No.	Condition
T-7	General Condition:This permit is for air pollution control purposes only. [APC-S-2 I.D]
T-8	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-9	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-10	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-11	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-12	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-13	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-14	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-15	General Condition: This permit shall not be transferred except upon approval of the Permit Board. [APC-S-2 XVI.B]

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 4 of 17

### AI0000001321 (continued):

#### Narrative Requirements:

Condition No.	Condition
T-16	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-17	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-18	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-19	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)]
T-20	During bypass of the flue gas desulfurization system, the permittee shall meet all applicable permit limitations, 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-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)]



## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 5 of 17

### AI0000001321 (continued):

#### Narrative Requirements:

Condition No.	Condition
T-24	<p>General Condition: Regarding compliance testing:</p> <p>(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.</p> <p>(b) Compliance testing will be performed at the expense of the permittee.</p> <p>(c) Each emission sampling and analysis report shall include but not be limited to the following:</p> <ol style="list-style-type: none"><li>1. detailed description of testing procedures;</li><li>2. sample calculation(s);</li><li>3. results; and</li><li>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)]</li></ol>
T-25	<p>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)]</p>

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 6 of 17

**EQPT0000000027 (AA-001 ) Emission point AA-001 - unit #1, the 5,460.5 MMBtu/hr (nominal) tangentially-fired utility boiler equipped with an electrostatic precipitator, low NOx burners with over-fire air delivery system and a flue gas desulfurization system. This unit is permitted to combust coal (bituminous and subbituminous), #2 fuel oil, #6 fuel oil, used oil, petroleum contaminated soil, boiler cleaning waste, natural gas and wood waste:**

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Particulate Matter	Particulate Matter: For emission point AA-001, the permittee shall comply with the applicable particulate matter standard in 40 CFR Part 60, Subpart D, Section 60.42, except for periods of startup, shutdown and malfunction. [40 CFR 60.42]
L-2	Nitrogen oxides	Nitrogen oxides: For emission point AA-001, the permittee shall comply with the applicable nitrogen oxide standards in 40 CFR Part 60, Subpart D, Section 60.44, except for periods of startup, shutdown and malfunction. [40 CFR 60.44]
L-3	Opacity	Opacity: For emission point AA-001, the permittee shall comply with the applicable opacity standard in 40 CFR Part 60, Section 60.42. For emission point AA-001, the permittee shall not cause to be discharged into the atmosphere any gases which exhibit greater than 20 percent opacity, except for one six-minute period per hour of not more than 27 percent opacity and during startup, shutdown, and malfunction. [40 CFR 60.42]
L-4	Sulfur Dioxide	Sulfur Dioxide: For emission point AA-001, the permittee shall comply with the applicable sulfur dioxide standards in 40 CFR Part 60, Subpart D, Section 60.43, except for periods of startup, shutdown and malfunction. [40 CFR 60.43]
L-5		For emission point, AA-001, the permittee is subject to and shall comply with all applicable requirements and limitations found in 40 CFR Part 60, Subpart D, Standards of Performance for Fossil-Fuel-Fired Steam Generators for which Construction Commenced after August 17, 1971 and 40 CFR Part 60, Subpart A, General Provisions. [40 CFR 60_SUBPART D]
L-6		For emission point AA-001, the permittee is subject to and shall comply with all applicable requirements of the Acid Rain Regulations as specified in 40 CFR Parts 72-78. [APC-S-7]
L-7		For Emission Point AA-001, the permittee is subject to the requirements of APC-S-1, Section 14.1, the Clean Air Interstate Rule (CAIR) as set forth in 40 CFR 51.123, 40 CFR 51.124, 40 CFR 96.102 through 40 CFR 96.388, until December 31, 2011. Beginning May 1, 2012, the permittee is subject to and shall comply with the Cross State Air Pollution Rule (CSAPR) as set forth in 40 CFR part 97, Subpart BBBBBB. [APC-S-1 14.1, 40 CFR 97_Subpart BBBBBB]

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 7 of 17

**EQPT0000000027 (continued):**

### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		For emission point AA-001, the permittee shall comply with emissions and fuel monitoring requirements in 40 CFR Part 60, Subpart D, Section 60.45. [40 CFR 60.45]
M-2		For emission points AA-001, the permittee shall comply with the test methods and procedures in 40 CFR Part 60, Subpart D, Section 60.46. [40 CFR 60_SUBPART D]
M-3		For emission point AA-001, the permittee shall comply with the continuous emissions monitoring requirements in Part 75 of the Acid Rain Regulations. [40 CFR Part 75]

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 8 of 17

**EQPT0000000028 (AA-002 ) Emission point AA-002 - unit #2, the 5,460.5 MMBtu/hr (nominal) tangentially-fired utility boiler equipped with an electrostatic precipitator, low NOx burners with over-fire air delivery system and a flue gas desulfurization system. This unit is permitted to combust coal (bituminous and subbituminous), #2 fuel oil, #6 fuel oil, used oil, petroleum contaminated soil, boiler waste, natural gas and wood waste :**

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Particulate Matter	Particulate Matter: For emission point AA-002, the permittee shall comply with the applicable particulate matter standard in 40 CFR Part 60, Subpart D, Section 60.42, except for periods of startup, shutdown and malfunction. [40 CFR 60.42]
L-2	Nitrogen oxides	Nitrogen oxides: For emission point AA-002, the permittee shall comply with the applicable nitrogen oxide standards in 40 CFR Part 60, Subpart D, Section 60.44, except for periods of startup, shutdown and malfunction. [40 CFR 60.44]
L-3	Opacity	Opacity: For emission point AA-002, the permittee shall comply with the applicable opacity standard in 40 CFR Part 60, Section 60.42. For emission point AA-002, the permittee shall not cause to be discharged into the atmosphere any gases which exhibit greater than 20 percent opacity, except for one six-minute period per hour of not more than 27 percent opacity and during startup, shutdown and malfunction. [40 CFR 60.42]
L-4	Sulfur Dioxide	Sulfur Dioxide: For emission point AA-002, the permittee shall comply with the applicable sulfur dioxide standards in 40 CFR Part 60, Subpart D, Section 60.43, except for periods of startup, shutdown and malfunction. [40 CFR 60.43]
L-5		For emission point AA-002, the permittee is subject to and shall comply with all applicable requirements and limitations found in of 40 CFR Part 60, Subpart D, Standards of Performance for Fossil-Fuel-Fired Steam Generators for which Construction Commenced after August 17, 1971 and 40 CFR Part 60, Subpart A, General Provisions . [40 CFR 60_SUBPART D]
L-6		For emission point AA-002, the permittee is subject to and shall comply with all applicable requirements of the Acid Rain Regulations as specified in 40 CFR Parts 72-78. [APC-S-7]
L-7		For Emission Point AA-002, the permittee is subject to the requirements of APC-S-1, Section 14.1, the Clean Air Interstate Rule (CAIR) as set forth in 40 CFR 51.123, 40 CFR 51.124, 40 CFR 96.102 through 40 CFR 96.388, until December 31, 2011. Beginning May 1, 2012, the permittee is subject to and shall comply with the Cross State Air Pollution Rule (CSAPR) as set forth in 40 CFR part 97, Subpart BBBBB. [APC-S-1 14.1, 40 CFR 97_Subpart BBBBB]

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 9 of 17

### EQPT0000000028 (continued):

#### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		For emission point AA-002, the permittee shall comply with emissions and fuel monitoring requirements in 40 CFR Part 60, Subpart D, Section 60.45. [40 CFR 60.45]
M-2		For emission point AA-002, the permittee shall comply with the test methods and procedures in 40 CFR Part 60, Subpart D, Section 60.46. [40 CFR 60_SUBPART D]
M-3		For emission point AA-002, the permittee shall comply with the continuous emissions monitoring requirements in Part 75 of the Acid Rain Regulations. [40 CFR Part 75]

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 10 of 17

### EQPT0000000029 (AA-029) Common bypass stack for emissions from unit #1 and unit #2 when bypassing the flue gas desulfurization system:

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Particulate Matter	Particulate Matter: For emission point AA-029, the permittee shall comply with the applicable particulate matter standard in 40 CFR Part 60, Subpart D, Section 60.42, except for periods of startup, shutdown and malfunction. [40 CFR 60.42]
L-2	Nitrogen oxides	Nitrogen oxides: For emission point AA-029, the permittee shall comply with the applicable nitrogen oxide standards in 40 CFR Part 60, Subpart D, Section 60.44, except for periods of startup, shutdown and malfunction. [40 CFR 60.44]
L-3	Opacity	Opacity: For emission point AA-029, the permittee shall comply with the applicable opacity standard in 40 CFR Part 60, Section 60.42. For emission point AA-029, the permittee shall not cause to be discharged into the atmosphere any gases which exhibit greater than 20 percent opacity, except for one six-minute period per hour of not more than 27 percent opacity and during startup, shutdown and malfunction. [40 CFR 60.42]
L-4	Sulfur Dioxide	Sulfur Dioxide: For emission point AA-029, the permittee shall comply with the applicable sulfur dioxide standards in 40 CFR Part 60, Subpart D, Section 60.43, except for periods of startup, shutdown and malfunction. [40 CFR 60.43]
L-5		For emission point AA-029, the permittee is subject to and shall comply with all applicable requirements and limitations found in of 40 CFR Part 60, Subpart D, Standards of Performance for Fossil-Fuel-Fired Steam Generators for which Construction Commenced after August 17, 1971 and 40 CFR Part 60, Subpart A, General Provisions. [40 CFR 60_SUBPART D]
L-6		For emission point AA-029, the permittee is subject to and shall comply with all applicable requirements of the Acid Rain Regulations as specified in 40 CFR Parts 72-78. [APC-S-7]
L-7		For Emission Point AA-029, the permittee is subject to the requirements of APC-S-1, Section 14.1, the Clean Air Interstate Rule (CAIR) as set forth in 40 CFR 51.123, 40 CFR 51.124, 40 CFR 96.102 through 40 CFR 96.388, until December 31, 2011. Beginning May 1, 2012, the permittee is subject to and shall comply with the Cross State Air Pollution Rule (CSAPR) as set forth in 40 CFR part 97, Subpart BBBBB. [APC-S-1 14.1, 40 CFR 97_Subpart BBBBB]

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 11 of 17

### EQPT0000000029 (continued):

#### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		For emission point AA-029, the permittee shall comply with emissions and fuel monitoring requirements in 40 CFR Part 60, Subpart D, Section 60.45. [40 CFR 60.45]
M-2		For emission points AA-029, the permittee shall comply with the test methods and procedures in 40 CFR Part 60, Subpart D, Section 60.46. [40 CFR 60_SUBPART D]
M-3		For emission point AA-029, the permittee shall comply with the continuous emissions monitoring requirements in Part 75 of the Acid Rain Regulations. [40 CFR Part 75]

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 12 of 17

### **EQPT0000000031 (AA-030) Limestone storage silo equipped with a baghouse for unit 1 flue gas desulfurization system process line:**

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1		Emission point AA-030, the limestone storage silo, shall only be operated with emissions routed to a baghouse. [APC-S-2 II.B(10)]



## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 13 of 17

**EQPT0000000032 (AA-032) Limestone slurry mixing tank equipped with a venturi scrubber for unit 1 flue gas desulfurization system process line:**

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1		Emission point AA-032, the limestone slurry mix tank, shall only be operated with emissions routed to a venturi scrubber. [APC-S-2 II.B(10)]

**Permit To Construct Air Emissions Equipment**

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 14 of 17

**EQPT0000000033 (AA-033) Limestone slurry mixing tank equipped with a venturi scrubber for unit 2 flue gas desulfurization system:**

**Limitation Requirements:**

Condition No.	Parameter	Condition
L-1		Emission point AA-033, the limestone slurry mix tank, shall only be operated with emissions routed to a venturi scrubber. [APC-S-2 II.B(10)]

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 15 of 17

### **EQPT0000000034 (AA-031) Limestone storage silo equipped with a baghouse for unit 2 flue gas desulfurization system:**

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1		Emission point AA-031, the limestone storage silo, shall only be operated with emissions routed to a baghouse.  . [APC-S-2 II.B(10)]

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 16 of 17

**GRPT0000000003 (Limestone Processing for Unit 1 FGD System) limestone processing including the limestone storage silo (AA-030) and the limestone slurry mixing tank (AA-032) to supply limestone to unit #1 flue gas desulfurization system.:**

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1		<p>For the limestone process including the limestone storage silo, the limestone slurry tank and any associated stacks, vents, outlets or combination thereof, the permittee shall not cause, permit, or allow the emission of particulate matter in total quantities, in any one hour, in excess of the amount determined by the following relationship:</p> $E=4.1 p^{0.67}$ <p>where E is the emission rate in pounds per hour and p is the process weight input rate in tons per hour. [APC-S-1 3.6(a)]</p>

## Permit To Construct Air Emissions Equipment

Mississippi Power Company, Plant Victor J Daniel

Facility Requirements

Permit Number:1280-00090

Activity ID No.: PER20100002

Page 17 of 17

**GRPT0000000004 (Limestone Processing for Unit 2 FGD System) limestone processing including the limestone storage silo (AA-031) and the limestone slurry mixing tank (AA-033) to supply limestone to unit #2 flue gas desulfurization system. :**

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1		<p>For the limestone process including the limestone storage silo, the limestone slurry tank and any associated stacks, vents, outlets or combination thereof, the permittee shall not cause, permit, or allow the emission of particulate matter in total quantities, in any one hour, in excess of the amount determined by the following relationship:</p> $E=4.1 p^{0.67}$ <p>where E is the emission rate in pounds per hour and p is the process weight input rate per hour. [APC-S-1 3.6(a)]</p>

## GENERAL INFORMATION

Mississippi Power Company, Plant Victor J Daniel  
Highway 63 North  
Escatawpa, MS  
Jackson County

### Alternate/Historic Identifiers

ID	Alternate/Historic Name	User Group	Start Date	End Date
1321	Mississippi Power Company, A Southern Company	Official Site Name	1/15/1993	
2805900090	Mississippi Power Co, Plant Vic Daniel	Air-AIRS AFS	10/12/2000	
MSD093546729	Daniel Electric Generating Plant	Hazardous Waste-EPA ID	3/9/1998	
128000090	Mississippi Power Company, Plant Victor J Daniel	Air-Construction	12/31/1998	
128000090	Mississippi Power Company, Plant Victor J Daniel	Air-Title V Operating	2/4/2000	2/1/2005
MSR101249	Mississippi Power Company, Plant Victor J Daniel	GP-Construction	1/26/1999	4/21/2000
MSR000395	Mississippi Power Company, Plant Victor J Daniel	GP-Baseline	11/10/1992	1/17/2001
MSR101249	Mississippi Power Company, Plant Victor J Daniel	GP-Construction	4/21/2000	10/2/2001
MS0024511	Mississippi Power Company, Plant Victor J Daniel	Water - NPDES	12/10/1997	12/1/2002
MSR000395	Mississippi Power Company, Plant Victor J Daniel	GP-Baseline	1/17/2001	1/17/2006
MSR100106	Mississippi Power Company	GP-Construction	3/3/1993	3/15/1995
MS0024511	Mississippi Power Company, Plant Victor J Daniel	Water - NPDES	12/3/2003	11/30/2008
SW0300040490	Mississippi Power Company	SolidWaste - NonMSW Landfill	12/1/2003	11/30/2013
128000090	Mississippi Power Company, Daniel Electric Generating Plant	Air-Acid Rain	8/2/2004	12/31/2004
SW0300040527	Mississippi Power Company, Daniel Electric Generating Plant Ash Management	SolidWaste - NonMSW Landfill	11/21/2005	10/31/2015
MSR000395	Mississippi Power Company, Plant Victor J Daniel	GP-Baseline	1/17/2006	9/30/2010
MSR104006	Mississippi Power Company, Plant Victor J Daniel	GP-Construction	3/6/2006	3/21/2007
128000090	Mississippi Power Company, Plant Victor J Daniel	Air-Title V Fee Customer	2/4/2000	
1321-001	Mississippi Power V.J. Daniels	GARD	3/27/1984	
128000090	Mississippi Power Company, Daniel Electric Generating Plant	Air-Acid Rain	1/1/2008	12/31/2012
128000090	Mississippi Power Company Daniel Electric Generating Plant	Air-Title V Operating	1/18/2008	12/31/2012
128000090	Mississippi Power Company, Plant Victor J Daniel	Air-Construction	10/9/2008	
MS0024511	Mississippi Power Company, Plant Victor J Daniel	Water - NPDES	1/14/2009	12/31/2013

## GENERAL INFORMATION

ID	Alternate/Historic Name	User Group	Start Date	End Date
MSR105389	Mississippi Power Company, A Southern Company, Plant Victor J Daniel	GP-Construction	2/18/2009	5/31/2010
128000090	Mississippi Power Company, Plant Victor J Daniel	Air-Construction	1/4/2010	
WQC1996011	Mississippi Power Company, Transmission Lines	WQC Number	2/6/1996	
MS9600160F	Mississippi Power Company, Transmission Lines	COE Public Notice/ Permit Number	2/6/1996	3/4/1996
MS9300025V	Mississippi Power Company, Coal Handling Facility	COE Public Notice/ Permit Number	1/21/1993	2/22/1993
WQC1993013	Mississippi Power Company, Coal Handling Facility	WQC Number	2/24/1993	
MS93000018V	Mississippi Power Company, Road Construction	COE Public Notice/ Permit Number	1/15/1993	2/1/1993
WQC1992155	Mississippi Power Company, Road Construction	WQC Number	2/1/1993	
6073	Mississippi Power Company, Plant Victor J Daniel	Air: ORIS ID	10/26/2010	
MSR000395	Mississippi Power Company, Plant Victor J Daniel	GP-Baseline	1/10/2011	9/28/2015
MSR105915	Mississippi Power Company, A Southern Company, Plant Victor J Daniel, FGD	GP-Construction	3/21/2011	12/31/2015
MSR105389	Mississippi Power Company, A Southern Company, Plant Victor J Daniel	GP-Construction	4/13/2011	12/31/2015
128000090	Mississippi Power Company, Plant Victor J Daniel	Air-Construction	12/7/2011	

**Basin:** Pascagoula River Basin

**Location Description:** There is a 150 foot buffer maintained from the property line on Highway 63. PG- Plant Entrance (General). Data collected by J. Dewayne Headrick on 4/27/2006.

## GENERAL INFORMATION

### Relevant Documents:

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

Mississippi Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants, APC-S-1

Mississippi Permit Regulation for the Construction and/or Operation of Air Emission Equipment, APC-S-2

Standards of Performance for Fossil-Fuel-Fired Steam Generators for which Construction is commenced after August 17, 1971, 40 CFR Part 60, Subpart D

Standards of Performance for New Stationary Source General Provisions, 40 CFR Part 60, Subpart A

Acid Rain Regulations, 40 CFR Part 72 through 78

Clean Air Interstate Rule, 40 CFR §51.123, 40 CFR §51.124, 40 CFR §96.102 through 40 CFR §96.388

Cross State Air Pollution Rule, 40 CFR Part 97, Subpart BBBBB