

Attachment 51 to

GNRO-2012/00039

GGNS. 2004. Air Pollution Control Permit to Operate Air Emissions Equipment at a Synthetic Minor Source, Permit No. 0420-00023. June 1, 2004.

**STATE OF MISSISSIPPI
AND FEDERALLY ENFORCEABLE
AIR POLLUTION CONTROL
PERMIT**

**TO OPERATE AIR EMISSIONS EQUIPMENT AT A
SYNTHETIC MINOR SOURCE**

THIS CERTIFIES THAT

**Entergy Mississippi Inc, Grand Gulf Nuclear Station
Bald Hill Road
Port Gibson, Mississippi
Claiborne 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 the Federal Clean Air Act and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), the regulations and standards adopted and promulgated thereunder, and the State Implementation Plan for operating permits for synthetic minor sources.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD



AUTHORIZED SIGNATURE

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued: JUN - 1 2004

Permit No.: 0420-00023

Expires: May 31, 2009

Part I
GENERAL CONDITIONS

1. Any activities not identified in the application are not authorized by this permit.
2. The permittee shall at all times maintain in good working order and operate as efficiently as possible all air pollution control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.
3. Solids removed in the course of control of air emissions shall 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.
4. Any diversion from or bypass of collection and control facilities is prohibited except as provided for in Regulation APC-S-1, "Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants", Section 10.
5. 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.
6. The permittee shall allow the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Environmental Quality Permit Board 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.
7. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to:
 - a. 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 required either a temporary or permanent reduction or elimination of authorized air emissions.
8. For renewal of this permit the applicant shall make application not less than one-hundred eighty (180) days prior to the May 31, 2009 of the permit substantiated with current

emissions data, test results or reports or other data as deemed necessary by the Mississippi Environmental Quality Permit Board.

9. 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.
10. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.
11. Nothing herein contained shall be construed as releasing the permittee from any liability for damage to persons or property by reason of the installation, maintenance, or operation of the air cleaning facility, or from compliance with the applicable statutes of the State, or with local laws, regulations, or ordinances.
12. This permit may only be transferred upon approval of the Mississippi Environmental Quality Permit Board.
13. This permit is for air pollution control purposes only.
14. This permit is a Federally-approved permit to operate a synthetic minor source as described in Regulation APC-S-2, Section IV.D.

Part II
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009, the permittee is authorized to operate air emissions equipment and emit air contaminants from Emission Point AA-001, the Division 1, 67.26 MMBTU/hr standby emergency diesel generator.

Such emissions shall be limited by the permittee as specified below:

EMISSIONS LIMITATIONS

Opacity 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect JUNE 1, 2004.

OPERATIONAL LIMITATION

The permittee is shall limit the operation of the unit to no more than 250 hours per any rolling 365-day period.

RECORDKEEPING

- (1) The permittee must keep records of the total hours of operation on a daily basis.
- (2) The permittee shall submit an annual report specifying the total hours of operation on a daily basis and on a 365-day rolling basis.
- (3) Daily records shall be kept in log form at the facility for a period of at least five (5) years and must be made available for review upon request during any inspection visit by Office of Pollution Control personnel.

REPORTING

- (4) The permittee shall submit the annual report specified above no later than January 31.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009, the permittee is authorized to operate air emissions equipment and emit air contaminants from Emission Point AB-001, the Division 2, 67.26 MMBTU/hr standby emergency diesel generator.

Such emissions shall be limited by the permittee as specified below:

EMISSIONS LIMITATIONS

Opacity 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect JUNE 1, 2004.

OPERATIONAL LIMITATION

The permittee shall limit the operation of the unit to no more than 250 hours per any rolling 365-day period.

RECORDKEEPING

- (1) The permittee must keep records of the total hours of operation on a daily basis.
- (2) The permittee shall submit an annual report specifying the total hours of operation on a daily basis and on a 365-day rolling basis.
- (3) Daily records shall be kept in log form at the facility for a period of at least five (5) years and must be made available for review upon request during any inspection visit by Office of Pollution Control personnel.

REPORTING

- (4) The permittee shall submit the annual report specified above no later than January 31.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009, the permittee is authorized to operate air emissions equipment and emit air contaminants from AC-001, the Division 3, 34.26 MMBTU/hr standby emergency diesel generator with two stacks.

Such emissions shall be limited by the permittee as specified below:

EMISSIONS LIMITATIONS

Opacity 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect JUNE 1, 2004.

OPERATIONAL LIMITATION

The permittee is shall limit the operation of the unit to no more than 250 hours per any rolling 365-day period.

RECORDKEEPING

- (1) The permittee must keep records of the total hours of operation on a daily basis.
- (2) The permittee shall submit an annual report specifying the total hours of operation on a daily basis and on a 365-day rolling basis.
- (3) Daily records shall be kept in log form at the facility for a period of at least five (5) years and must be made available for review upon request during any inspection visit by Office of Pollution Control personnel.

REPORTING

- (4) The permittee shall submit the annual report specified above no later than January 31.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009 the permittee is authorized to operate air emissions equipment and emit air contaminants from AA-002, the 3.26 MMBTU/hr fire water pump diesel engine A.

Such emissions shall be limited by the permittee as specified below:

EMISSIONS LIMITATIONS

Opacity 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect JUNE 1, 2004.

OPERATIONAL LIMITATION

The permittee is shall limit the operation of the unit to no more than 500 hours per any rolling 365-day period.

RECORDKEEPING

- (1) The permittee must keep records of the total hours of operation on a daily basis.
- (2) The permittee shall submit an annual report specifying the total hours of operation on a daily basis and on a 365-day rolling basis.
- (3) Daily records shall be kept in log form at the facility for a period of at least five (5) years and must be made available for review upon request during any inspection visit by Office of Pollution Control personnel.

REPORTING

- (4) The permittee shall submit the annual report specified above no later than January 31.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009 the permittee is authorized to operate air emissions equipment and emit air contaminants from AB-002, the 3.26 MMBTU/hr fire water pump diesel engine B.

Such emissions shall be limited by the permittee as specified below:

EMISSIONS LIMITATIONS

Opacity 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect JUNE 1, 2004.

OPERATIONAL LIMITATION

The permittee is shall limit the operation of the unit to no more than 500 hours per any rolling 365-day period.

RECORDKEEPING

- (1) The permittee must keep records of the total hours of operation on a daily basis.
- (2) The permittee shall submit an annual report specifying the total hours of operation on a daily basis and on a 365-day rolling basis.
- (3) Daily records shall be kept in log form at the facility for a period of at least five (5) years and must be made available for review upon request during any inspection visit by Office of Pollution Control personnel.

REPORTING

- (4) The permittee shall submit the annual report specified above no later than January 31.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009, the permittee is authorized to operate air emissions equipment and emit air contaminants from AC-002, the 5.62 MMBTU/hr ESC diesel generator.

Such emissions shall be limited by the permittee as specified below:

EMISSIONS LIMITATIONS

Opacity 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect JUNE 1, 2004.

OPERATIONAL LIMITATION

The permittee shall limit the operation of the unit to no more than 100 hours per any rolling 365-day period.

RECORDKEEPING

- (1) The permittee must keep records of the total hours of operation on a daily basis.
- (2) The permittee shall submit an annual report specifying the total hours of operation on a daily basis and on a 365-day rolling basis.
- (3) Daily records shall be kept in log form at the facility for a period of at least five (5) years and must be made available for review upon request during any inspection visit by Office of Pollution Control personnel.

REPORTING

- (4) The permittee shall submit the annual report specified above no later than January 31.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009, the permittee is authorized to operate air emissions equipment and emit air contaminants from AA-003, the 0.15 MMBTU/hr OSC diesel generator.

Such emissions shall be limited by the permittee as specified below:

EMISSIONS LIMITATIONS

Opacity 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect JUNE 1, 2004.

OPERATIONAL LIMITATION

The permittee is shall limit the operation of the unit to no more than 500 hours per any rolling 365-day period.

RECORDKEEPING

- (1) The permittee must keep records of the total hours of operation on a daily basis.
- (2) The permittee shall submit an annual report specifying the total hours of operation on a daily basis and on a 365-day rolling basis.
- (3) Daily records shall be kept in log form at the facility for a period of at least five (5) years and must be made available for review upon request during any inspection visit by Office of Pollution Control personnel.

REPORTING

- (4) The permittee shall submit the annual report specified above no later than January 31.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009 the permittee is authorized to operate air emissions equipment and emit air contaminants from AB-003, the 0.34 MMBTU/hr Division 1 diesel start engine.

Such emissions shall be limited by the permittee as specified below:

EMISSIONS LIMITATIONS

Opacity	40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A.
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All test methods specified above shall be those versions, or their approved equivalents, which are in effect JUNE 1, 2004.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009 the permittee is authorized to operate air emissions equipment and emit air contaminants from AC-003, the 0.34 MMBTU/hr Division 2 diesel start engine.

Such emissions shall be limited by the permittee as specified below:

EMISSIONS LIMITATIONS

Opacity	40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A.
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All test methods specified above shall be those versions, or their approved equivalents, which are in effect JUNE 1, 2004.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009 the permittee is authorized to operate air emissions equipment and emit air contaminants from AD-003, the 0.084 MMBTU/hr Division 3 diesel start engine.

Such emissions shall be limited by the permittee as specified below:

EMISSIONS LIMITATIONS

Opacity 40% as determined by EPA Test Method 9, 40
CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect JUNE 1, 2004.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009, the permittee is authorized to operate air emissions equipment and emit air contaminants from AE-003, the 0.85 MMBTU/hr water well diesel engine.

Such emissions shall be limited by the permittee as specified below:

EMISSIONS LIMITATIONS

Opacity 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect JUNE 1, 2004.

OPERATIONAL LIMITATION

The permittee shall limit the operation of the unit to no more than 500 hours per any rolling 365-day period.

RECORDKEEPING

- (1) The permittee must keep records of the total hours of operation on a daily basis.
- (2) The permittee shall submit an annual report specifying the total hours of operation on a daily basis and on a 365-day rolling basis.
- (3) Daily records shall be kept in log form at the facility for a period of at least five (5) years and must be made available for review upon request during any inspection visit by Office of Pollution Control personnel.

REPORTING

- (4) The permittee shall submit the annual report specified above no later than January 31.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009 the permittee is authorized to operate air emissions equipment and emit air contaminants from AA-004, the outage equipment with a total combined maximum rated capacity of 79.48 MMBTU/hr.

Such emissions shall be limited by the permittee as specified below:

EMISSIONS LIMITATIONS

Opacity 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect JUNE 1, 2004.

OPERATIONAL LIMITATION

The permittee is shall limit the operation of all units combined to no more than a combined total of 50 hours per any rolling 365-day period.

RECORDKEEPING

- (1) For all outage equipment combined, the permittee must keep records of the total hours of operation on a daily basis.
- (2) For all outage equipment combined, the permittee shall submit a semi-annual report specifying the total hours of operation on a daily basis and on a 365-day rolling basis.
- (3) Daily records shall be kept in log form at the facility for a period of at least five (5) years and must be made available for review upon request during any inspection visit by Office of Pollution Control personnel.

REPORTING

- (4) The permittee shall submit the annual report specified above no later than January 31.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009 the permittee is authorized to operate air emissions equipment and emit air contaminants from AA-008, the unit 1 CWS cooling tower.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009 the permittee is authorized to operate air emissions equipment and emit air contaminants from AA-009, the standby service water A cooling tower.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009 the permittee is authorized to operate air emissions equipment and emit air contaminants from AA-010, the standby service water B cooling tower.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009, the permittee is authorized to operate air emissions equipment and emit air contaminants from AA-011, the 0.42 MMBTU/hr diesel fuel-fired telecommunications emergency generator.

Such emissions shall be limited by the permittee as specified below:

EMISSIONS LIMITATIONS

Opacity 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A.

All test methods specified above shall be those versions, or their approved equivalents, which are in effect JUNE 1, 2004.

OPERATIONAL LIMITATION

The permittee shall limit the operation of the unit to no more than 500 hours per any rolling 365-day period.

RECORDKEEPING

- (1) The permittee must keep records of the total hours of operation on a daily basis.
- (2) The permittee shall submit an annual report specifying the total hours of operation on a daily basis and on a 365-day rolling basis.
- (3) Daily records shall be kept in log form at the facility for a period of at least five (5) years and must be made available for review upon request during any inspection visit by Office of Pollution Control personnel.

REPORTING

- (4) The permittee shall submit the annual report specified above no later than January 31.

Part II (Continued)

EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

Beginning JUNE 1, 2004, and lasting until MAY 31, 2009, the permittee is authorized to operate air emissions equipment and emit air contaminants from the facility's petroleum liquid storage tanks.

Identification	Description
AT-110	Clean lube oil tank, 30,000 gallons
AT-111	Dirty lube oil tank, 60,000 gallons
AT-112	Vehicle maintenance shop gasoline tank, 1,000 gallons
AT-113	Vehicle maintenance shop diesel tank, 2,000 gallons
AT-114	Day tank for backup diesel engines
AT-115	Day tank for backup diesel engines
AT-116	Day tank for backup diesel engines
AT-117	Well water diesel tank
AT-118	Fire water engine tank
AT-119	Fire water engine tank
AT-120	Vehicle fuel tank – grounds maintenance
AT-121	Fuel oil storage day tank
AT-122	Used oil tank – maintenance shop
AT-123	Lube oil reservoir for main turbine
AT-124	Vehicle maintenance tank
AT-125	Vehicle maintenance tank
AT-126	Radial well lube oil storage tank 1
AT-127	Radial well lube oil storage tank 2
AT-128	Radial well lube oil storage tank 3

Facility storage tanks shall be operated and maintained in a manner that will minimize volatile organic compound emissions. Any tank leaks or damage to the roof seals shall be repaired as soon as possible after detection.

**Part III
OTHER REQUIREMENTS**

1. This permit does not authorize a modification as defined in Regulation APC-S-2, "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment". A modification requires a Permit to Construct and a modification of this permit. Modification is defined as "Any 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:
 - i) 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
 - ii) 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."

Part III
OTHER REQUIREMENTS CONTINUED
(CONTINUED)

2. **The permittee shall report any exceedance of the limitations of this permit to the Mississippi Department of Environmental Quality (MDEQ) no later than thirty (30) days after discovery of the exceedance and shall report the cause(s) of the exceedance and the actions (s) that were or will be taken to correct it.**
3. **Fuel oil certifications shall be made once by the fuel supplier certifying the fuel oil delivered will have less than one percent (1.0%) sulfur in the fuel. This certification shall be maintained on site for review by MDEQ at all times.**