

PART 70 PERMIT TO OPERATE

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to operate the air contaminant source(s) described below, in accordance with the laws, rules, and conditions set forth herein.

Operating Permit Number: OP2011-028
Expiration Date: JUL 06 2016
Installation ID: 007-0053
Project Number: 2008-12-042

Installation Name and Address

Audrain Power Plant
40897 Highway P
Vandalia, MO 63382
Audrain County

Parent Company's Name and Address

Union Electric Company d/b/a Ameren Missouri
1901 Chouteau Avenue
P.O. Box 66149
St. Louis, MO 63166-6149

Installation Description:

Ameren Missouri operates the Audrain Power Plant. The plant consists of eight simple-cycle combustion turbines, each equipped with inlet fogging. These combustion turbines are used as peaking units during periods of high demand and are fueled solely by pipeline grade natural gas. In addition, an emergency diesel fire pump is at this site. The diesel fire pump is used for the purposes of pumping water in case of a fire and is for emergency use only.

JUL 07 2011

Effective Date



Director or Designee
Department of Natural Resources

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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

Ameren Missouri operates the Audrain Power Plant. The plant consists of eight simple-cycle combustion turbines, each equipped with inlet fogging. These combustion turbines are used as peaking units during periods of high demand and are fueled solely by pipeline grade natural gas. In addition, an emergency diesel fire pump is at this site. The diesel fire pump is used for the purposes of pumping water in case of a fire and is for emergency use only.

Reported Air Pollutant Emissions, tons per year							
Year	Particulate Matter ≤ Ten Microns (PM-10)	Sulfur Oxides (SO _x)	Nitrogen Oxides (NO _x)	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
2009	2.21	0.13	19.91	0.41	11.70	---	0.00
2008	2.01	0.12	18.15	0.37	10.66	---	0.00
2007	4.54	0.27	40.92	0.84	24.05	---	0.00
2006	2.07	0.12	5.61	0.38	10.98	---	0.00
2005	1.95	1.08	8.41	0.36	10.34	---	0.40

EMISSION UNITS WITH LIMITATIONS

The following list provides a description of the equipment at this installation that emits air pollutants and that are identified as having unit-specific emission limitations.

Emission Unit #	Description of Emission Unit
EU0010-EU0080	Eight (8) Simple-Cycle Combustion Turbines
EU0090	Fire Pump, MDR 1.2 mmBtu/hr

EMISSION UNITS WITHOUT LIMITATIONS

The following list provides a description of the equipment that does not have unit specific limitations at the time of permit issuance.

Description of Emission Source
Eight 2,600 gallon lubricating oil tanks

II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

None.

III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

EU0010 through EU0080 Combustion Turbines			
Emission Unit	Description	Manufacturer/Model #	EIQ Reference #
EU0010- EU0080	Eight Simple Cycle Combustion Turbines Nominal Rating 80 MW each Fuel Type: Pipeline grade natural gas Constructed in 2001	General Electric/7EA	EP#1-EP#8

PERMIT CONDITION (EU0010 through EU0080)-001
 10 CSR 10-6.060 Construction Permits Required
 Construction Permit No. 052000-015 – BACT Requirement for NO_x

Emission Limitation:

1. Except during periods of start-up and shutdown (i.e. at loads greater than 60%), Audrain Power Plant shall limit nitrogen oxide (NO_x) emissions from each of the General Electric Model 7EA turbine generators (EU0010-EU0080) to 12 parts per million by volume (ppmv) corrected to 15% oxygen on a dry basis and expressed as a one hour average. [Special Condition 5A]
2. Except during periods of start-up and shutdown (i.e. at loads greater than 60%), Audrain Power Plant shall limit nitrogen oxide (NO_x) emissions from each of the General Electric Model 7EA turbine generators (EU0010-EU0080) to nine parts per million by volume (ppmvd) corrected to 15% oxygen on a dry basis and expressed as a 12-month rolling average. [Special Condition 5B]

Monitoring/Record Keeping:

1. Audrain Power Plant shall install, calibrate, maintain, and operate continuous monitoring systems, and record output of the systems, for measuring NO_x emissions discharged to the atmosphere. These systems shall be placed in an appropriate location of each turbine’s flue gas exhaust such that accurate readings are possible. [Special Condition 24]
2. Audrain Power Plant shall install, calibrate, maintain, and operate continuous monitoring systems, and record output of the systems, for measuring the oxygen (O₂) content of the flue gases at each location where NO_x emissions are monitored. The O₂ content of the flue gases may be determined by use of either an O₂ CEMS or a CO₂ CEMS. If Audrain Power Plant elects to use a CO₂ CEMS, the conversion process in EPA Method 20 must be used to correct the NO_x concentrations to 15 percent O₂. [Special Condition 25]
3. The continuous emission monitoring systems required by Monitoring condition No. 1 shall be installed and operated according to the guidelines in 40 CFR Part 75 for NO_x and diluent CEMS requirements. [Special Condition 26]

4. The continuous emission monitoring systems required by Monitoring Condition 2 shall be installed and operated according to the guidelines in 40 CFR §60.13, *Monitoring requirements*; in 40 CFR 60 Appendix B, Performance Specification 3 – *Specifications and test procedures of O₂ and CO₂ Continuous Emission Monitoring Systems in Stationary Sources*; and in 40 CFR 60 Appendix F, Quality Assurance Procedures. [Special Condition 27]
5. If Audrain Power Plant makes use of the fuel-bound nitrogen credit to demonstrate compliance with Subpart GG of the NSPS, pursuant to 40 CFR §60.13(i), Audrain Power Plant shall sample the nitrogen content of the fuel as follows:
 - a) If Audrain Power Plant agrees to accept a value of zero for the fuel-bound nitrogen credit, then no nitrogen sampling and analysis of the fuel is required.
 - b) If Audrain Power Plant seeks credit for fuel-bound nitrogen, then the permittee shall sample and analyze the nitrogen concentration of the fuel each day. This approval in no way limits Audrain Power Plant's opportunity to pursue U.S. EPA approval of a custom fuel schedule for a reduced nitrogen sampling and analysis frequency under 40 CFR §60.334(h)(4)(i)(2). [Special Condition 38]

Reporting:

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, on a quarterly basis any deviation from any of the terms imposed by this regulation or any malfunction, which causes a deviation from this regulation.

PERMIT CONDITION (EU0010 through EU0080)-002
10 CSR 10-6.060 Construction Permits Required
Construction Permit No. 052000-015 – BACT Requirement for CO

Emission Limitation:

For Natural Gas Firing:

Except during periods of start-up and shutdown (i.e. at loads greater than 60%), Audrain Power Plant shall limit carbon monoxide (CO) emissions from each of the General Electric Model 7EA turbine generators (EU0010-EU0080) to 25 parts per million by volume (ppmvd) corrected to 15% oxygen on a dry basis and expressed as a one hour average. [Special Condition 6]

Monitoring/Record Keeping:

Maintain records of the performance test required by Construction Permit #05200-015.

Reporting:

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation or any malfunction, which causes a deviation from this regulation.

PERMIT CONDITION (EU0010 through EU0080)-003
10 CSR 10-6.060 Construction Permits Required
Construction Permit No. 052000-015 – BACT Requirement for PM₁₀

Emission Limitation:

For Natural Gas Firing:

Audrain Power Plant shall limit PM₁₀ emissions from each of the General Electric Model 7EA turbine generators (EU0010-EU0080) to 0.016 pounds per million Btu (lb/mmBtu) of heat input.

[Special Condition 7]

Monitoring/Record Keeping:

Maintain records of the performance test required by Construction Permit #05200-015.

Reporting:

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any deviation from or exceedance of any of the terms imposed by this regulation or any malfunction, which causes a deviation from this regulation.

PERMIT CONDITION (EU0010 through EU0080)-004

10 CSR 10-6.060 Construction Permits Required

Construction Permit No. 052000-015 – BACT Requirement for Formaldehyde

Emission Limitation:

Audrain Power Plant shall not discharge into the atmosphere from this installation formaldehyde in excess of ten tons in every consecutive 12-month period. [Special Condition 11]

Monitoring/Record Keeping:

Audrain Power Plant shall keep monthly records that are adequate to determine the formaldehyde emissions from this installation. These records shall also indicate the total quantity of formaldehyde emissions from the installation over the previous 12-month period. Attachment A, *Formaldehyde Compliance Worksheet*, or an equivalent form is suitable for this purpose. The most recent 60 months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources' personnel upon request. [Special Condition 15]

Reporting:

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the end of each month, if the 12-month cumulative total records show that the source exceeded the emission limitation of formaldehyde (10 tons). [Special Condition 31]

PERMIT CONDITION (EU0010 through EU0080)-005

10 CSR 10-6.060 Construction Permits Required

Construction Permit No. 052000-015

Emission Limitation:

1. Audrain Power Plant shall burn only natural gas at this installation. [Special Condition 1]

2. Except during periods of start-up and shutdown (i.e. at loads greater than 60%), Audrain Power Plant shall limit the total hours of operation of this installation to less than 4,000 hours in every consecutive 12-month rolling period. [Special Condition 2]
3. Except during periods of start-up and shutdown (i.e. at loads greater than 60%), Audrain Power Plant shall limit the total hours of operation of each of the General Electric Model 7EA turbine generators (EU0010 through EU0080) to less than 2,500 hours total per turbine in every consecutive twelve-month rolling period. [Special Condition 3]

Operational Limitation:

1. Audrain Power Plant shall not operate any turbine at loads less than 60 percent unless the turbine is in startup or shutdown mode. For the purposes of this permit, startup and shutdown modes are defined as those periods of time that a turbine is operating at less than 60 percent load. [Special Condition 32]
2. Should Audrain Power Plant wish to alter the total installation hours of operation or individual turbine hours of operation, BACT must be re-evaluated. This review must also include an analysis for all hazardous air pollutant emissions according to 10 CSR 10-6.060(9). This future review will be conducted as if the turbines had not yet been built. [Special Condition 34]
3. Should Audrain Power Plant wish to convert any of these simple cycle turbines to combined cycle turbines in the future, BACT must be re-evaluated. This review must also include an analysis for all hazardous air pollutant emissions according to 10 CSR 10-6.606(9). This future review will be conducted as if the turbines had not yet been built. [Special Condition 35]

Monitoring/Record Keeping:

1. Audrain Power Plant shall keep monthly records that are adequate to determine compliance with Emission Limitation 2 (total installation hours of operation). Attachment B, *Installation Operational Schedule*, or an equivalent form of the company's own design is suitable for this purpose. The most recent 60 months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources' personnel upon request. [Special Condition 13]
2. Audrain Power Plant shall keep monthly records that are adequate to determine compliance with Emission Limitation 3. Attachment C, *Individual Operational Schedule*, or an equivalent form of the company's own design is suitable for this purpose. The most recent 60 months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources' personnel upon request. [Special Condition 14]
3. Audrain Power Plant shall maintain records during periods of start-up and shutdown that include the amount of time required for each cycle and time that the turbines are operated at less than 60 percent load. Total time required for startup and shutdown times for each turbine shall not exceed one hour per operational period. Operational period is defined as the combined time of equipment startup, operation and shutdown for a turbine. [Special Condition 33]

Reporting:

The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after the end of each month, if the 12-month cumulative total records show that the source exceeded the operational limitations. [Special conditions 28 and 29]

PERMIT CONDITION (EU0010 through EU0080)-006

10 CSR 10-6.070 New Source Performance Regulations
40 CFR Part 60 Subpart GG
Standards of Performance for Stationary Gas Turbines

Emission Limitation:

1. *Nitrogen Oxides:*

The combustion turbines (EU0010 – EU0080) are subject to the requirements of §60.332(a)(1) of 40 CFR Part 60 Subpart GG. The NO_x emission standard of Subpart GG for these turbines is 94.7 ppmv at 15 percent O₂ dry basis on a four-hour rolling average as determined by §60.332(a)(1)

2. *Sulfur Dioxides:*

The permittee shall not burn in any stationary gas turbine any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw).

Monitoring:

1. *Nitrogen Oxides:*

a) Ameren Missouri Audrain Power Plant has installed and certified a continuous monitoring system pursuant to 40 CFR 60.334(c) and will continue to operate, maintain and quality assure a NO_x continuous emissions monitoring system for each of emission units EU0010 through EU0080.

b) An hour of excess emissions shall be any unit operating hour in which the 4-hour rolling average NO_x concentration exceeds the applicable emission limit in condition (EU0010 through EU0080)-006. A “4-hour rolling average NO_x concentration” is the arithmetic average of the average NO_x concentration measured by the CEMS for a given hour, corrected to 15 percent O₂, and the three unit operating hour average NO_x concentrations immediately preceding that hour.

c) The permittee need not monitor the nitrogen content of the natural gas burned in these combustion turbine generators.

2. *Sulfur Dioxides:*

The permittee may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR 60.331(u). [40 CFR 60.334(h)(3)]

Record Keeping:

1. *Nitrogen Oxides:*

The permittee shall use NO_x concentration information (percent by volume at 15 percent oxygen on a dry basis) reported by the CEMS to monitor the NO_x emissions from the combustion turbines.

2. *Sulfur Dioxides:*

The permittee shall provide documentation that the natural gas burned in the turbines meets the definition of pipeline natural gas in accordance with Section 2.3.1.4 of Appendix D of 40 CFR Part 75.

3. *Both Nitrogen Oxides and Sulfur Dioxides:*

a) The permittee shall maintain these records for the most recent five years. They must be maintained on-site for two years. They may be kept in either written or electronic form.

- b) These records shall be made available immediately for inspection to Department of Natural Resources personnel upon request.

Reporting:

1. *Nitrogen Oxides*

The permittee shall submit a quarterly excess emissions report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, consistent with the format and schedule described in 40 CFR §60.7(d).

2. *Both Nitrogen Oxides and Sulfur Dioxides:*

The permittee shall report any deviations from the monitoring/record keeping requirements of this permit condition in the semi-annual monitoring report and annual compliance certification required by Section V of this permit.

PERMIT CONDITION (EU0010 through EU0080)-007

10 CSR 10-6.362 Clean Air Interstate Rule Annual NO_x Trading Program
10 CSR 10-6.364 Clean Air Interstate Rule Seasonal NO_x Trading Program
10 CSR 10-6.366 Clean Air Interstate Rule SO_x Trading Program

Emission Limitation:

The permittee shall obtain a CAIR Source Permit for the combustion turbine generators EU0010 through EU0080.

A CAIR Permit (Missouri Department of Natural Resources project 2007-07-041, ORIS Code 55234) is being issued to the permittee in conjunction with this Title V permit. (See Attachment F)

Monitoring/Record Keeping:

The permittee shall retain the most current CAIR permit issued to this installation on-site and shall immediately make such permit available to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

Annual Compliance Certification.

The permittee shall report any deviations of the monitoring/record keeping requirements of this permit condition in the semi-annual monitoring report and annual compliance certification required by Section V of this permit.

PERMIT CONDITION (EU0010 through EU0080)-008

10 CSR 10-6.270 Acid Rain Source Permits Required

Emission Limitation:

The permittee shall obtain an Acid Rain Source Permit for the combustion turbine generators EU0010 through EU0080 pursuant to Title IV of the Clean Air Act.

An acid rain permit (Missouri Department of Natural Resources project 2005-11-081, ORIS Code 55234) is being issued to the permittee in conjunction with this Title V permit. Sulfur dioxide (SO₂) limitations are referenced in this Title IV: Phase II Acid Rain Permit for the installation. This permit is included with this operating permit as Attachment E.

Monitoring/Record Keeping:

The permittee shall retain the most current acid rain permit issued to this installation on-site and shall immediately make such permit available to any Missouri Department of Natural Resources' personnel upon request.

Reporting:

Annual Compliance Certification.

The permittee shall report any deviations of the monitoring/record keeping requirements of this permit condition in the semi-annual monitoring report and annual compliance certification required by Section V of this permit.

EU0090 Emergency Diesel Fire Pump			
Emission Unit	Description	Manufacturer/Model #	EIQ Reference #
EU0090	105 hp Emergency Diesel Fire Pump (140 kilowatt) Fuel Type: Distillate fuel oil Constructed in 2001	Caterpillar	EP#9

<p>PERMIT CONDITION EU0090-001 10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds</p>

Emission Limitation:

1. Emissions from any new source operation shall not contain more than five hundred parts per million by volume (500 ppmv) of sulfur dioxide.
2. Stack gases shall not contain more than thirty-five milligrams (35 mg) per cubic meter of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three hour time period.
3. No person shall cause or permit the emission of sulfur compounds from any source which causes or contributes to concentrations exceeding those specified in 10 CSR 10-6.010 Ambient Air Quality Standards.

Pollutant	Concentration by Volume	Remarks
Sulfur Dioxide (SO ₂)	0.5 ppm (1300 µg/m ³)	3-hour average not to be exceeded more than once per year
	75 ppb	1-hour average; 3-year average of the 99 th percentile of the daily maximum 1-hour average at each site monitor within an area
Hydrogen Sulfide (H ₂ S)	0.05 ppm (70 µg/m ³)	½-hour average not to be exceeded over 2 times per year
	0.03 ppm (42 µg/m ³)	½-hour average not to be exceeded over 2 times in any 5 consecutive days
Sulfuric Acid (H ₂ SO ₄)	10 µg/m ³	24-hour average not to be exceeded more than once in any 90 consecutive days
	30 µg/m ³	1-hour average not to be exceeded more than once in any 2 consecutive days

Note: This requirement is not federally enforceable. This requirement can only be directly enforced by the State of Missouri.

Operational Limitation/Equipment Specifications:

The emission unit shall be limited to burning distillate fuel oil.

Monitoring/Record Keeping:

1. The permittee shall maintain an accurate record of the sulfur content of fuel used. Fuel purchase receipts, analyzed samples or certifications that verify the fuel type and sulfur content will be acceptable.
2. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records shall be maintained for five years.

Reporting:

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

PERMIT CONDITION EU0090-002
 10 CSR 10-6.075 Maximum Achievable Control Technology Regulations
 40 CFR Part 63, Subpart ZZZZ – National Emission Standard for Hazardous Air Pollutants for
 Stationary Reciprocating Internal Combustion Engines

Note: An existing emergency stationary CI RICE with a site rating of less than or equal to 500 brake HP located at an area source of HAP emissions must comply with the applicable emission limitations and operating limitations no later than May 3, 2013. [40 CFR 63.6595(a)(1)]

Emission / Operational Limitations:

1. The permittee must meet the following operating/inspection requirements (except during periods of engine startup): [§63.6602]

-
- a) Change the engine oil and oil filter every 500 hours of operation or annually, whichever comes first;
 - i) Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement of this subpart.
 - b) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first;
 - c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
 - d) Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply
 - i) If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpart, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.
 - ii) Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.
2. The permittee must operate according to the following requirements: [[§63.6640\(f\)\(1\)](#), [§63.6640\(f\)\(1\)\(i\) through \(iii\)](#)]
- a) There is no time limit on the use of emergency stationary RICE in emergency situations.
 - b) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.
 - c) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency

situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this condition, as long as the power provided by the financial arrangement is limited to emergency power.

- d) Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year is prohibited. If you do not operate the engine according to the previous requirements, the engine will not be considered an emergency engine under 40 CFR 63 Subpart ZZZZ and will need to meet all requirements for non-emergency engines.

Record Keeping:

1. The permittee must keep the following records for this engine: [\[§63.6655\(a\)\]](#)
 - a) Records of the occurrence and duration of each malfunction of process equipment or any air pollution control and monitoring equipment and actions taken during periods of malfunction to minimize emissions including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [\[§63.6655\(a\)\(2\) and §63.6655\(a\)\(5\)\]](#)
 - b) Records of all required maintenance performed on the air pollution control and monitoring equipment. [\[§63.6655\(a\)\(4\)\]](#)
 - c) Records that the engine was operated and maintained according to the manufacturer's emission-related operation and maintenance instructions or that a maintenance plan has been developed to provide for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [\[§63.6655\(e\)\]](#)
 - d) Records of the hours of operation for the engine as measured by the non-resettable hour meter. The installation shall also maintain a record keeping form indicating out of the total hours measured by the meter: [\[§63.6655\(f\)\]](#)
 - i) How many hours were spent in emergency use and a brief description of the emergency situation.
 - ii) How many hours were spent in non-emergency operation.
 - e) These records must be made available for inspection upon request by Missouri DNR personnel. [\[§63.6660\(a\)\]](#)
 - f) All records shall be maintained for five (5) years. [\[§63.6660\(b\)\]](#)
 - g) Records shall be kept readily accessible in hard copy or electronic form. [\[§63.6660\(c\)\]](#)

Reporting:

1. The permittee shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedance of any of the terms imposed by this regulation, or any malfunction which could possibly cause an exceedance of this regulation.
2. The permittee shall report any deviations from the operational limitations, record keeping and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit. These reports shall also include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions, including actions taken to correct a malfunction. If there are no deviations from any operating limitations that apply, a statement that there were no deviations from the operating limitations during the reporting period must be included.

IV. Core Permit Requirements

The installation shall comply with each of the following regulations or codes. Consult the appropriate sections in the Code of Federal Regulations (CFR), the Code of State Regulations (CSR), and local ordinances for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued. The following is only an excerpt from the regulation or code, and is provided for summary purposes only.

10 CSR 10-3.090 Restriction of Emission of Odors

This requirement is not federally enforceable.

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour.

10 CSR 10-6.045 Open Burning Requirements

- 1) General Provisions. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.
- 2) Refer to the regulation for a complete list of allowances. The following is a listing of exceptions to the allowances:
 - a) Burning of household or domestic refuse. Burning of household or domestic refuse is limited to open burning on a residential premises having not more than four dwelling units, provided that the refuse originates on the same premises, with the following exceptions:
 - i) St. Louis metropolitan area. The open burning of household refuse is prohibited;
 - b) Yard waste, with the following exceptions:
 - i) St. Louis metropolitan area. The open burning of trees, tree leaves, brush or any other type of vegetation is limited to the period beginning September 16 and ending April 14 of each calendar year and limited to a total base area not to exceed sixteen (16) square feet. Any open burning shall be conducted only between the hours of 10:00 a.m. and 4:00 p.m. and is limited to areas outside of incorporated municipalities;
- 3) Certain types of materials may be open burned provided an open burning permit is obtained from the Director. The permit will specify the conditions and provisions of all open burning. The permit may be revoked if the owner or operator fails to comply with the conditions or any provisions of the permit.
- 4) Audrain Power Plant may be issued an annually renewable open burning permit for open burning provided that an air curtain destructor or incinerator is utilized and only tree trunks, tree limbs, vegetation or untreated wood waste are burned. Open burning shall occur at least two hundred (200) yards from the nearest occupied structure unless the owner or operator of the occupied structure provides a written waiver of this requirement. Any waiver shall accompany the open burning permit application. The permit may be revoked if Audrain Power Plant fails to comply with the provisions or any condition of the open burning permit.
 - a) In a nonattainment area, as defined in 10 CSR 10-6.020, Paragraph (2)(N)5., the Director shall not issue a permit under this section unless the owner or operator can demonstrate to the

satisfaction of the Director that the emissions from the open burning of the specified material would be less than the emissions from any other waste management or disposal method.

- 5) Reporting and Record Keeping. New Source Performance Standard (NSPS) 40 CFR Part 60 Subpart CCCC establishes certain requirements for air curtain destructors or incinerators that burn wood trade waste. These requirements are established in 40 CFR 60.2245-60.2260. The provisions of 40 CFR Part 60 Subpart CCCC promulgated as of September 22, 2005, shall apply and are hereby incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401. To comply with NSPS 40 CFR 60.2245-60.2260, sources must conduct an annual Method 9 test. A copy of the annual Method 9 test results shall be submitted to the Director.
- 6) Test Methods. The visible emissions from air pollution sources shall be evaluated as specified by 40 CFR Part 60, Appendix A–Test Methods, Method 9–Visual Determination of the Opacity of Emissions from Stationary Sources. The provisions of 40 CFR Part 60, Appendix A, Method 9 promulgated as of December 23, 1971, is incorporated by reference in this rule, as published by the U.S. Government Printing Office, 732 N Capitol Street NW, Washington, DC 20401.

10 CSR 10-6.050 Start-up, Shutdown and Malfunction Conditions

- 1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the Director within two business days, in writing, the following information:
 - a) Name and location of installation;
 - b) Name and telephone number of person responsible for the installation;
 - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
 - d) Identity of the equipment causing the excess emissions;
 - e) Time and duration of the period of excess emissions;
 - f) Cause of the excess emissions;
 - g) Air pollutants involved;
 - h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;
 - i) Measures taken to mitigate the extent and duration of the excess emissions; and
 - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- 2) The permittee shall submit the Paragraph 1 information list to the Director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the Director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.
- 3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under Section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the Paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the Director or the commission shall make a determination whether

the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under Section 643.080 or 643.151, RSMo.

- 4) Nothing in this rule shall be construed to limit the authority of the Director or commission to take appropriate action, under Sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
- 5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

10 CSR 10-6.060 Construction Permits Required

The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

10 CSR 10-6.065 Operating Permits

The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. [10 CSR 10-6.065(6)(B)1.A(V)] The permittee shall retain the most current operating permit issued to this installation on-site. [10 CSR 10-6.065(6)(C)1.C(II)] The permittee shall immediately make such permit available to any Missouri Department of Natural Resources' personnel upon request. [10 CSR 10-6.065(6)(C)3.B]

10 CSR 10-6.110 Submission of Emission Data, Emission Fees and Process Information

- 1) The permittee shall complete and submit an Emission Inventory Questionnaire (EIQ) in accordance with the requirements outlined in this rule.
- 2) The permittee may be required by the Director to file additional reports.
- 3) Public Availability of Emission Data and Process Information. Any information obtained pursuant to the rule(s) of the Missouri Air Conservation Commission that would not be entitled to confidential treatment under 10 CSR 10-6.210 shall be made available to any member of the public upon request.
- 4) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079.
- 5) The fees shall be payable to the Department of Natural Resources and shall be accompanied by the Emissions Inventory Questionnaire (EIQ) form or equivalent approved by the Director.
- 6) The permittee shall complete required reports on state supplied EIQ forms or in a form satisfactory to the Director and the reports shall be submitted to the Director by June 1 after the end of each reporting period.
- 7) The reporting period shall end on December 31 of each calendar year. Each report shall contain the required information for each emission unit for the twelve (12)-month period immediately preceding the end of the reporting period.
- 8) The permittee shall collect, record and maintain the information necessary to complete the required forms during each year of operation of the installation.

10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential

This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.

10 CSR 10-6.150 Circumvention

The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

10 CSR 10-6.165 Restriction of Emission of Odors

This requirement is not federally enforceable.

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour.

10 CSR 10-6.170

Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin

Emission Limitation:

- 1) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line of origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the Director.
- 2) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.
- 3) Should it be determined that noncompliance has occurred, the Director may require reasonable control measures as may be necessary. These measures may include, but are not limited to, the following:
 - a) Revision of procedures involving construction, repair, cleaning and demolition of buildings and their appurtenances that produce particulate matter emissions;
 - b) Paving or frequent cleaning of roads, driveways and parking lots;
 - c) Application of dust-free surfaces;
 - d) Application of water; and
 - e) Planting and maintenance of vegetative ground cover.

10 CSR 10-6.180 Measurement of Emissions of Air Contaminants

- 1) The Director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The Director may specify testing methods to be used in accordance with good

professional practice. The Director may observe the testing. All tests shall be performed by qualified personnel.

- 2) The Director may conduct tests of emissions of air contaminants from any source. Upon request of the Director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
- 3) The Director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

10 CSR 10-6.280 Compliance Monitoring Usage

- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
 - a) Monitoring methods outlined in 40 CFR Part 64;
 - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Any other monitoring methods approved by the Director.
- 2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
 - a) Monitoring methods outlined in 40 CFR Part 64;
 - b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Compliance test methods specified in the rule cited as the authority for the emission limitations.
- 3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - a) Applicable monitoring or testing methods, cited in:
 - i) 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";
 - ii) 10 CSR 10-6.040, "Reference Methods";
 - iii) 10 CSR 10-6.070, "New Source Performance Standards";
 - iv) 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; or
 - b) Other testing, monitoring, or information gathering methods, if approved by the Director, that produce information comparable to that produced by any method listed above.

Title VI – 40 CFR Part 82 Protection of Stratospheric Ozone

- 1) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
 - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
 - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.

- d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- 2) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
 - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
 - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
 - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
 - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
 - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
 - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- 3) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, Production and Consumption Controls.
- 4) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.
- 5) The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR Part 82, Subpart G, Significant New Alternatives Policy Program. *Federal Only - 40 CFR Part 82*

10 CSR 10-6.280 Compliance Monitoring Usage

- 1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
 - a) Monitoring methods outlined in 40 CFR Part 64;
 - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Any other monitoring methods approved by the Director.
- 2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
 - a) Monitoring methods outlined in 40 CFR Part 64;

- b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Compliance test methods specified in the rule cited as the authority for the emission limitations.
- 3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
- a) Applicable monitoring or testing methods, cited in:
 - i) 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";
 - ii) 10 CSR 10-6.040, "Reference Methods";
 - iii) 10 CSR 10-6.070, "New Source Performance Standards";
 - iv) 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; or
 - b) Other testing, monitoring, or information gathering methods, if approved by the Director, that produce information comparable to that produced by any method listed above.

V. General Permit Requirements

The installation shall comply with each of the following requirements. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued.

10 CSR 10-6.020(2)(R)12 Responsible Official

The application utilized in the preparation of this permit was signed by Ozzie L. Lomax, Manager Regulated CTG Units. Mark C. Birk, Vice President Power Operations, Daniel F. Cole, Senior Vice President Ameren Services, and Michael L. Menne, Vice President Environmental Services are also designated Responsible Officials at the Audrain combustion turbine facility. If any of these individuals terminates employment, or is reassigned different duties such that they are no longer designated as a responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

10 CSR 10-6.065(6)(C)1.B Permit Duration

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

10 CSR 10-6.065(6)(C)1.C General Record Keeping and Reporting Requirements

- 1) Record Keeping
 - a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
 - b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.
- 2) Reporting
 - a) All reports shall be submitted to the Air Pollution Control Program's Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
 - b) The permittee shall submit a report of all required monitoring by:
 - i) October 1st for monitoring which covers the January through June time period, and
 - ii) April 1st for monitoring which covers the July through December time period.
 - iii) Exception. Monitoring requirements which require reporting more frequently than semi-annually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.

- c) Each report shall identify any deviations from emission limitations, monitoring, record keeping, reporting, or any other requirements of the permit, this includes deviations or Part 64 exceedances.
- d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
 - i) Notice of any deviation resulting from an emergency (or upset) condition as defined in Paragraph (6)(C)7.A of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if the permittee wishes to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and the permittee can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must contain a description of the emergency, the steps taken to mitigate emissions, and the corrective actions taken.
 - ii) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
 - iii) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's semi-annual report shall be reported on the schedule specified in this permit, and no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.
- e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.
- f) The permittee may request confidential treatment of information submitted in any report of deviation.

10 CSR 10-6.065(6)(C)1.D Risk Management Plan Under Section 112(r)

The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

- 1) June 21, 1999;
- 2) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or
- 3) The date on which a regulated substance is first present above a threshold quantity in a process.

10 CSR 10-6.065(6)(C)1.E Title IV Allowances

This permit prohibits emissions which exceed any allowances the installation holds under Title IV of the Clean Air Act.

No permit revisions shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program if the increases do not require a permit revision under any other applicable requirement.

Limits cannot be placed on the number of allowances that may be held by an installation. The installation may not use these allowances, however, as a defense for noncompliance with any other applicable requirement.

Any allowances held by a Title IV installation shall be accounted for according to procedures established in rules promulgated under Title IV of the Clean Air Act.

This facility was issued an acid rain permit (permit number OP2007-080) on December 26, 2007. This permit is effective through December 31, 2011.

10 CSR 10-6.065(6)(C)1.F Severability Clause

In the event of a successful challenge to any part of this permit, all uncontested permit conditions shall continue to be in force. All terms and conditions of this permit remain in effect pending any administrative or judicial challenge to any portion of the permit. If any provision of this permit is invalidated, the permittee shall comply with all other provisions of the permit.

10 CSR 10-6.065(6)(C)1.G General Requirements

- 1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
- 2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit
- 3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- 4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
- 5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted pursuant to 10 CSR 10-6.065(6)(C)1.

10 CSR 10-6.065(6)(C)1.H Incentive Programs Not Requiring Permit Revisions

No permit revision will be required for any installation changes made under any approved economic incentive, marketable permit, emissions trading, or other similar programs or processes provided for in this permit.

10 CSR 10-6.065(6)(C)1.I Reasonably Anticipated Operating Scenarios

None.

10 CSR 10-6.065(6)(C)3 Compliance Requirements

- 1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
- 2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
 - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
 - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
- 3) All progress reports required under an applicable schedule of compliance shall be submitted semi-annually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
 - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
 - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
- 4) The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, as well as the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and Part 64 exceedances and excursions must be included in the compliance certifications. The compliance certification shall include the following:
 - a) The identification of each term or condition of the permit that is the basis of the certification;
 - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;
 - c) Whether compliance was continuous or intermittent;

- d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
- e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

10 CSR 10-6.065(6)(C)6 Permit Shield

- 1) Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date that this permit is issued, provided that:
 - a) The application requirements are included and specifically identified in this permit, or
 - b) The permitting authority, in acting on the permit revision or permit application, determines in writing that other requirements, as specifically identified in the permit, are not applicable to the installation, and this permit expressly includes that determination or a concise summary of it.
- 2) Be aware that there are exceptions to this permit protection. The permit shield does not affect the following:
 - a) The provisions of Section 303 of the Act or Section 643.090, RSMo concerning emergency orders,
 - b) Liability for any violation of an applicable requirement which occurred prior to, or was existing at, the time of permit issuance,
 - c) The applicable requirements of the acid rain program,
 - d) The authority of the Environmental Protection Agency and the Air Pollution Control Program of the Missouri Department of Natural Resources to obtain information, or
 - e) Any other permit or extra-permit provisions, terms or conditions expressly excluded from the permit shield provisions.

10 CSR 10-6.065(6)(C)7 Emergency Provisions

- 1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
 - a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
 - b) That the installation was being operated properly,
 - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
 - d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
- 2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

10 CSR 10-6.065(6)(C)8 Operational Flexibility

An installation that has been issued a Part 70 operating permit is not required to apply for or obtain a permit revision in order to make any of the changes to the permitted installation described below if the

changes are not Title I modifications, the changes do not cause emissions to exceed emissions allowable under the permit, and the changes do not result in the emission of any air contaminant not previously emitted. The permittee shall notify the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, at least seven days in advance of these changes, except as allowed for emergency or upset conditions. Emissions allowable under the permit means a federally enforceable permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit (including a work practice standard) or a federally enforceable emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

- 1) Section 502(b)(10) changes. Changes that, under Section 502(b)(10) of the Act, contravene an express permit term may be made without a permit revision, except for changes that would violate applicable requirements of the Act or contravene federally enforceable monitoring (including test methods), record keeping, reporting or compliance requirements of the permit.
 - a) Before making a change under this provision, The permittee shall provide advance written notice to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, describing the changes to be made, the date on which the change will occur, and any changes in emission and any permit terms and conditions that are affected. The permittee shall maintain a copy of the notice with the permit, and the Air Pollution Control Program shall place a copy with the permit in the public file. Written notice shall be provided to the EPA and the Air Pollution Control Program as above at least seven days before the change is to be made. If less than seven days notice is provided because of a need to respond more quickly to these unanticipated conditions, the permittee shall provide notice to the EPA and the Air Pollution Control Program as soon as possible after learning of the need to make the change.
 - b) The permit shield shall not apply to these changes.

10 CSR 10-6.065(6)(C)9 Off-Permit Changes

- 1) Except as noted below, the permittee may make any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Insignificant activities listed in the application, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. Off-permit changes shall be subject to the following requirements and restrictions:
 - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is subject to any requirements under Title IV of the Act or is a Title I modification;
 - b) The permittee must provide written notice of the change to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 901 North 5th Street, Kansas City, KS 66101, no later than the next annual emissions report. This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change.

- c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes; and
- d) The permit shield shall not apply to these changes.

10 CSR 10-6.065(6)(E)6 Reopening-Permit for Cause

This permit may be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MDNR) receives notice from the Environmental Protection Agency (EPA) that a petition for disapproval of a permit pursuant to 40 CFR § 70.8(d) has been granted, provided that the reopening may be stayed pending judicial review of that determination,
- 2) The Missouri Department of Natural Resources or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,
- 3) Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if—:
 - a) The permit has a remaining term of less than three years;
 - b) The effective date of the requirement is later than the date on which the permit is due to expire; or;
 - c) The additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,
- 4) The installation is an affected source under the acid rain program and additional requirements (including excess emissions requirements), become applicable to that source, provided that, upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit; or
- 5) The Missouri Department of Natural Resources or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

10 CSR 10-6.065(6)(E)1.C Statement of Basis

This permit is accompanied by a statement setting forth the legal and factual basis for the permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

VI. Attachments

Attachments follow.

ATTACHMENT A: FORMALDEHYDE COMPLIANCE WORKSHEET

Ameren Missouri - Audrain Power Plant

This sheet covers the month of _____ in the year _____.

Copy this sheet as needed.

Column A	Column B	Column C	Column D
Fuel Source and Load	Amount of Natural Gas Burned (MMCF) (Note 1)	Formaldehyde Emission Factor (lb/MMCF) (Note 2)	Natural Gas Formaldehyde Emissions (tons) (Note 4)
Natural Gas			
Fuel Source and Load	Amount of Diesel Fuel Burned (1000 gallons) (Note 1)	Formaldehyde Emission Factor (lb/1000 gallon) (Note 3)	Diesel Fuel Formaldehyde Emissions (tons) (Note 4)
Diesel Fuel			
Total Formaldehyde Emissions Calculated for this Month (tons) (Note 5)			
12-Month Formaldehyde Emissions Total From Previous Month's Worksheet (tons) (Note 6)			
Monthly Formaldehyde Emissions Total From Previous Year's Worksheet (tons) (Note 7)			
Current 12-Month Total Formaldehyde Emissions (tons) (Note 8)			

Note 1: Total amount of natural gas or diesel fuel (respectively) burned at the entire installation during this month.

Note 2: Formaldehyde emission factor for diesel fuel usage and appropriate loading will be determined from stack test data.

Note 3: Formaldehyde emission factor for natural gas usage and appropriate loading will be determined from stack test data.

Note 4: $\text{Column D} = (\text{Column B}) \cdot (\text{Column C}) \div (2000 \text{ lb/ton})$

Note 5: Sum of emissions reported in Column D.

Note 6: Running 12-month total of formaldehyde emissions.

Note 7: Formaldehyde Emissions reported for this month in the last calendar year.

Note 8: Amount reported in Note 5 plus amount reported in Note 6 minus amount reported in Note 7. Less than 10 tons indicates compliance.

ATTACHMENT B: INSTALLATION HOURS COMPLIANCE WORKSHEET

Ameren Missouri - Audrain Power Plant

This sheet covers the period from _____ to _____.
(month/year) (month/year)

Copy this sheet as needed.

Hours that the Installation is Producing Electricity = Electricity Hours	
Total Electricity Hours for this Month (Note 1)	
12-Month Total Electricity Hours From Previous Month's Worksheet (Note 2)	
Monthly Total Electricity Hours From Previous Year's Worksheet (Note 3)	
Current 12-Month Total Electricity Hours (Note 4)	

- Note 1: Total number of hours that this installation was producing electricity for this month (electricity hours).
- Note 2: Running 12-month total of electricity hours from previous month's worksheet.
- Note 3: Electricity hours reported for this month in the last calendar year.
- Note 4: Amount reported in Note 2 minus amount reported in Note 3 plus amount reported in Note 1. Less than 4,000 hours indicates compliance.

**ATTACHMENT C: GENERATOR HOURS COMPLIANCE WORKSHEET -
NATURAL GAS**

Ameren Missouri - Audrain Power Plant

This sheet covers the period from _____ to _____.
(month/year) (month/year)

This sheet is for Turbine Number

Copy this sheet as needed.

Hours that a Turbine is Burning Natural Gas = Unit Gas Hours	
Total Unit Gas Hours for this Month (Note 1)	
12-Month Total Unit Gas Hours From Previous Month's Worksheet (Note 2)	
Monthly Total Unit Gas Hours From Previous Year's Worksheet (Note 3)	
Current 12-Month Total Unit Gas Hours (Note 4)	

Note 1: Total number of hours that this turbine was burning natural gas for this month (unit gas hours).

Note 2: Running 12-month total of unit gas hours from previous month's worksheet.

Note 3: Unit gas hours reported for this month in the last calendar year.

Note 4: Amount reported in Note 2 minus amount reported in Note 3 plus amount reported in Note 1. Less than 2,000 hours indicates compliance.

**ATTACHMENT D: GENERATOR HOURS COMPLIANCE WORKSHEET -
DIESEL FUEL**

Ameren Missouri - Audrain Power Plant

This sheet covers the period from _____ to _____.
(month/year) (month/year)

This sheet is for Turbine Number

Copy this sheet as needed.

Hours that a Turbine is Burning Diesel Fuel = Unit Diesel Hours	
Total Unit Diesel Hours for this Month (Note 1)	
12-Month Total Unit Diesel Hours From Previous Month's Worksheet (Note 2)	
Monthly Total Unit Diesel Hours From Previous Year's Worksheet (Note 3)	
Current 12-Month Total Unit Diesel Hours (Note 4)	

Note 1: Total number of hours that this turbine was burning diesel fuel for this month (unit diesel hours).

Note 2: Running 12-month total of unit diesel hours from previous month's worksheet.

Note 3: Unit diesel hours reported for this month in the last calendar year.

Note 4: Amount reported in Note 2 minus amount reported in Note 3 plus amount reported in Note 1. Less than 500 hours indicates compliance.

ATTACHMENT E – Acid Rain Permit



Matt Blunt, Governor • Doyle Childers, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

DEC 27 2007

CERTIFIED MAIL: 7004 1820 0002 3310 3834
RETURN RECEIPT REQUESTED

Mr. Daniel F. Cole
Ameren UE
1901 Chouteau Avenue
P.O. Box 66149
St. Louis, MO 63166

RE: Acid Rain Program, Permit for
Installation Name: AmerenUE - Audrain Power Plant, ORIS Code: 55234
Unit IDs: CT1, CT2, CT3, CT4, CT5, CT6, CT7, and CT8
Project Number: 2005-11-081
Permit Number: OP2007-080
Effective Dates: January 1, 2007 through December 31, 2011

Dear Mr. Cole,

The Missouri Department of Natural Resources' Air Pollution Control Program, has completed its review of your application for a permit for these units under the Acid Rain Program. This application is complete and is *accepted*. Please note that you are required to operate your installation under the terms as submitted and outlined in your application. It is very important that you read and understand this legal document.

This acid rain permit is effective for the five-year period shown above, per 40 CFR 72.69, *Issuance and effective date of acid rain permits*. You are required to submit an application for renewal of this permit no later than June 30, 2011, per 40 CFR 72.30, *Requirement to apply*.

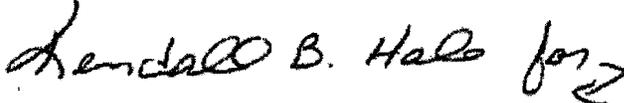
Mr. Daniel F. Cole
Page Two

If you have any questions regarding this matter, please contact the departments' Air Pollution Control Program Operating Permits Unit by telephone at (573) 751-4817, or you may write to the Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102.

Thank you for your time and attention.

Sincerely,

AIR POLLUTION CONTROL PROGRAM



Michael J. Stansfield, P.E.
Operating Permit Unit Chief

MJS:nvn

Enclosure

c: Ms. Lisa Hanlon, U.S. Environmental Protection Agency Region VII
Northeast Regional Office
PAMS File: 2005-11-081



Missouri Department of Natural Resources
Air Pollution Control Program

TITLE IV: ACID RAIN PERMIT

In accordance with Titles IV and V of the Clean Air Act and Missouri State Rule 10 CSR 10-6.270, ~~Acid Rain Source Permits Required~~, the State of Missouri issues this Acid Rain Permit.

Installation Name: AmerenUE - Audrain Power Plant, ORIS Code: 55234
Project Number: 2005-11-081, **Permit Number:** OP2007-080
Unit IDs: CT1, CT2, CT3, CT4, CT5, CT6, CT7, and CT8
Effective Dates: January 1, 2007 through December 31, 2011

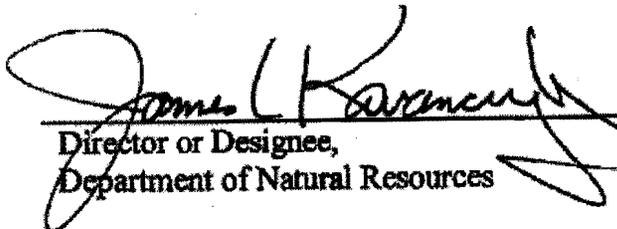
The permit application submitted for this source, as corrected by the State of Missouri Department of Natural Resources (MDNR), Air Pollution Control Program (APCP), Operating Permit Section, is attached. The owners and operators of this source must comply with the standard requirements and special provisions set forth in this application.

The number of allowances actually held by an affected source in a unit account may differ from the number allocated by the United States Environmental Protection Agency. Pursuant to 40 CFR 72.84, *Automatic permit amendment*, this does not necessitate a revision to any unit SO₂ allowance allocations identified in this permit.

This acid rain permit is effective for the five-year period shown above, per 40 CFR 72.69, *Issuance and effective date of acid rain permits*. The designated representative must submit an application for renewal of this permit no later than June 30, 2011, per 40 CFR 72.30, *Requirement to apply*, and in conjunction with the operating permit renewal application.

DEC 26 2007

Date



Director or Designee,
Department of Natural Resources

Plant Name (from Step 1) **Audrain Power Plant**

STEP 3

**Read the
standard
requirements**

Permit Requirements

- (1) The designated representative of each affected source and each affected unit at the source shall:
 - (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
 - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
 - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
 - (ii) Have an Acid Rain Permit.

Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall:
 - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
 - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Plant Name (from Step 1) Audrain Power Plant

Acid Rain - Page 3

STEP 3,
Cont'd.

Nitrogen Oxides Requirements The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

- (1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
 - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
 - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

- (1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
 - (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
 - (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
 - (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

Plant Name (from Step 1) Audrain Power Plant

**Step 3,
Cont'd.**

Liability, Cont'd.

- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

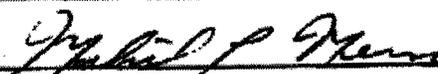
- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Certification

Read the certification statement, sign, and date

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name	Michael L. Menne	
Signature		Date
		September 20, 2007

ATTACHMENT F – CAIR Permit

TITLE V: CLEAN AIR INTERSTATE RULE (CAIR) PERMIT

In accordance with Title V of the Clean Air Act and Missouri State Rules 10 CSR 10-6.362, *Clean Air Interstate Rule Annual Nox Trading Program*, 10 CSR 10-6.364 *Clean Air Interstate Rule Seasonal NOx Trading Program*, and 10 CSR 10-6.366, *Clean Air Interstate Rule Sox Trading Program*, the State of Missouri issues this CAIR Permit.

Installation Name: AmerenUE Audrain Power Plant, **ORIS Code:** 55234
Project Number: 2007-07-041, **Permit Number:** OP2011-028
Unit IDs: CT1, CT2, CT3, CT4, CT5, CT6, CT7 and CT8
Effective Dates: through

The permit application submitted for this source, as corrected by the State of Missouri Department of Natural Resources' Air Pollution Control Program, Operating Permit Section, is attached. The owners and operators of this source must comply with the standard requirements and special provisions set forth in this application.

This CAIR Permit applies only to CT1, CT2, CT3, CT4, CT5, CT6, CT7 and CT8 – Audrain Power Plant 007-0053.

This CAIR permit is effective for the five-year period shown above. The designated representative must submit an application for renewal of this permit in conjunction with the operating permit renewal application.

Date

Director or Designee,
Department of Natural Resources

CAIR Permit Application

(for sources covered under a CAIR SIP)

For more information, refer to 40 CFR 96.121, 96.122, 96.221, 96.222, 96.321, and 96.322

This submission is: New Revised

STEP 1
 Identify the source by plant name, State, and ORIS or facility code

Plant Name	Audrain Power Plant	State	MO	ORIS/Facility Code	55234
------------	---------------------	-------	----	--------------------	-------

STEP 2
 Enter the unit ID# for each CAIR unit and indicate to which CAIR programs each unit is subject (by placing an "X" in the column)

Unit ID#	NO _x Annual	SO ₂	NO _x Ozone Season
CT1	X	X	X
CT2	X	X	X
CT3	X	X	X
CT4	X	X	X
CT5	X	X	X
CT6	X	X	X
CT7	X	X	X
CT8	X	X	X

STEP 3
 Read the standard requirements and the certification, enter the name of the CAIR designated representative, and sign and date

Standard Requirements

(a) Permit Requirements.

- (1) The CAIR designated representative of each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) required to have a title V operating permit and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) required to have a title V operating permit at the source shall:
 - (i) Submit to the permitting authority a complete CAIR permit application under §96.122, §96.222, and §96.322 (as applicable) in accordance with the deadlines specified in §96.121, §96.221, and §96.321 (as applicable); and
 - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.
- (2) The owners and operators of each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) required to have a title V operating permit and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) required to have a title V operating permit at the source shall have a CAIR permit issued by the permitting authority under subpart CC, CCC, and CCCC (as applicable) of 40 CFR part 96 for the source and operate the source and the unit in compliance with such CAIR permit.
- (3) Except as provided in subpart II, III, and IIII (as applicable) of 40 CFR part 96, the owners and operators of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) that is not otherwise required to have a title V operating permit and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) that is not otherwise required to have a title V operating permit are not required to submit a CAIR permit application, and to have a CAIR permit, under subpart CC, CCC, and CCCC (as applicable) of 40 CFR part 96 for such CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and such CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable).

Plant Name (from Step 1) **Audrain Power Plant**

CAIR Permit Application
Page 2

**STEP 3,
continued**

(b) Monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source shall comply with the monitoring, reporting, and recordkeeping requirements of subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96.

(2) The emissions measurements recorded and reported in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96 shall be used to determine compliance by each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) with the CAIR NO_x emissions limitation, CAIR SO₂ emissions limitation, and CAIR NO_x Ozone Season emissions limitation (as applicable) under paragraph (c) of §96.106, §96.206, and §96.306 (as applicable).

(c) Nitrogen oxides emissions requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x source and each CAIR NO_x unit at the source shall hold, in the source's compliance account, CAIR NO_x allowances available for compliance deductions for the control period under §96.154(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x units at the source, as determined in accordance with subpart HH of 40 CFR part 96.

(2) A CAIR NO_x unit shall be subject to the requirements under paragraph (c)(1) of §96.106 for the control period starting on the later of January 1, 2009 or the deadline for meeting the unit's monitor certification requirements under §96.170(b)(1), (2), or (5) and for each control period thereafter.

(3) A CAIR NO_x allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.106, for a control period in a calendar year before the year for which the CAIR NO_x allowance was allocated.

(4) CAIR NO_x allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with subparts FF, GG, and II of 40 CFR part 96.

(5) A CAIR NO_x allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Annual Trading Program. No provision of the CAIR NO_x Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.105 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR NO_x allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart EE, FF, GG, or II of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR NO_x allowance to or from a CAIR NO_x source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR NO_x unit.

Sulfur dioxide emission requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO₂ allowances available for compliance deductions for the control period under §96.254(a) and (b) not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO₂ units at the source, as determined in accordance with subpart HHH of 40 CFR part 96.

(2) A CAIR SO₂ unit shall be subject to the requirements under paragraph (c)(1) of §96.206 for the control period starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under §96.270(b)(1), (2), or (5) and for each control period thereafter.

(3) A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.206, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.

(4) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with subparts FFF, GGG, and III of 40 CFR part 96.

(5) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.205 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR SO₂ allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart FFF, GGG, or III of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR SO₂ allowance to or from a CAIR SO₂ source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR SO₂ unit.

Nitrogen oxides ozone season emissions requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_x Ozone Season allowances available for compliance deductions for the control period under §96.354(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x Ozone Season units at the source, as determined in accordance with subpart HHHH of 40 CFR part 96.

(2) A CAIR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(1) of §96.306 for the control period starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under §96.370(b)(1), (2), (3) or (7) and for each control period thereafter.

(3) A CAIR NO_x Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.306, for a control period in a calendar year before the year for which the CAIR NO_x Ozone Season allowance was allocated.

(4) CAIR NO_x Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Ozone Season Allowance Tracking System accounts in accordance with subparts FFFF, GGGG, and IIII of 40 CFR part 96.

(5) A CAIR NO_x Ozone Season allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Ozone Season Trading Program. No provision of the CAIR NO_x Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.305 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR NO_x allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart EEEE, FFFF, GGGG, or IIII of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from a CAIR NO_x Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

Plant Name (from Step 1) **Audrain Power Plant**

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**STEP 3,
continued**

(d) Excess emissions requirements.

If a CAIR NO_x source emits nitrogen oxides during any control period in excess of the CAIR NO_x emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NO_x unit at the source shall surrender the CAIR NO_x allowances required for deduction under §96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

If a CAIR SO₂ source emits sulfur dioxide during any control period in excess of the CAIR SO₂ emissions limitation, then:

- (1) The owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ allowances required for deduction under §96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

If a CAIR NO_x Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NO_x Ozone Season emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NO_x Ozone Season unit at the source shall surrender the CAIR NO_x Ozone Season allowances required for deduction under §96.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

(e) Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the Administrator.

(i) The certificate of representation under §96.113, §96.213, and §96.313 (as applicable) for the CAIR designated representative for the source and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under §96.113, §96.213, and §96.313 (as applicable) changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96, provided that to the extent that subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96 provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) or to demonstrate compliance with the requirements of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).

(2) The CAIR designated representative of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source shall submit the reports required under the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) including those under subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96.

(f) Liability.

(1) Each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) shall meet the requirements of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).

(2) Any provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) that applies to a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) or the CAIR designated representative of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) shall also apply to the owners and operators of such source and of the CAIR NO_x units, CAIR SO₂ units, and CAIR NO_x Ozone Season units (as applicable) at the source.

(3) Any provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) that applies to a CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) shall also apply to the owners and operators of such unit.

Plant Name (from Step 1) **Audrain Power Plant**

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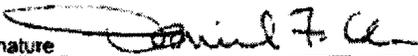
**STEP 3,
continued**

(g) Effect on Other Authorities.

No provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable), a CAIR permit application, a CAIR permit, or an exemption under § 96.105, §96.205, and §96.305 (as applicable) shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) or CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

Certification

I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Daniel F. Cole	
Signature 	Date June 28, 2007

STATEMENT OF BASIS

Permit Reference Documents

These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

- 1) Part 70 Operating Permit Application, received December 15, 2008;
- 2) 2009 Emissions Inventory Questionnaire, received June 1, 2010; and
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition.
- 4) Construction Permit 052000-015

Applicable Requirements Included in the Operating Permit but Not in the Application or Previous Operating Permits

In the operating permit application, the installation indicated they were not subject to the following regulation(s). However, in the review of the application, the agency has determined that the installation is subject to the following regulation(s) for the reasons stated.

10 CSR 10-6.362 *Clean Air Interstate Rule Annual NO_x Trading Program*

10 CSR 10-6.364 *Clean Air Interstate Rule Seasonal NO_x Trading Program*

10 CSR 10-6.366 *Clean Air Interstate Rule SO_x Trading Program*

These rules apply to Emission Units EU0010 through EU0080 – Combustion Turbines

Other Air Regulations Determined Not to Apply to the Operating Permit

The Air Pollution Control Program (APCP) has determined the following requirements to not be applicable to this installation at this time for the reasons stated.

10 CSR 10-6.100, *Alternate Emission Limits*

This rule is not applicable because the installation is in an ozone attainment area.

10 CSR 10-6.350 *Emission Limitations and Emissions Trading of Oxides of Nitrogen* is not applicable to this facility. The facility is exempted under 10 CSR 10-6.350(1)(F) because the facility is subject to and implementing the requirements of 10 CSR 10-6.364 *Clean Air Interstate Rule Seasonal NO_x Trading Program*.

10 CSR 10-6.360 *Control of NO_x Emissions From Electric Generating Units and Non-Electric Generating Boilers* is not applicable to this facility. The facility is exempted under 10 CSR 10-6.360(1)(H) because the facility is subject to and implementing the requirements of 10 CSR 10-6.364 *Clean Air Interstate Rule Seasonal NO_x Trading Program*.

Construction Permit Revisions

The following revisions were made to construction permits for this installation:

Construction Permit 052000-015 Special Conditions 18-22

Special Conditions 18-22 are not included in the operating permit because these conditions deal with the compliance testing that has been performed.

Construction Permit 052000-015

Duke Energy has been replaced by *NRG Energy* due to a change in the name of the parent company.

Construction Permit 052000-015

The facility does not currently have the equipment to utilize low sulfur transportation grade diesel fuel as a fuel for the gas turbines. The necessary equipment to allow this has not been constructed within the two years required after the issuance of the construction permit, therefore the installation will be required to request a review from the Construction Permit Unit if it decides to use diesel fuel in the future. Since the gas turbines do not have the ability to burn diesel fuel, the special conditions from Construction Permit 052000-015 concerning diesel fuel have not been incorporated into this operating permit. The following is a list of special conditions that have either been altered or are not included in the operating permit:

Special Condition 1: The condition states that the installation shall burn only natural gas or low sulfur transportation grade diesel fuel at the installation. This condition has not been revised since the emergency fire pump is permitted to burn diesel fuel.

Special Condition 4: this condition limits the number of hours that each turbine generator could burn diesel fuel. Each generator was limited to less than 500 hours in every consecutive 12-month rolling period. Since the installation is no longer allowed to burn diesel fuel in the turbines, this condition is not included in the operating permit.

Special Conditions 8 through 10: These conditions establish the emission limitations for the eight turbines when firing diesel fuel, therefore they are not included in the operating permit.

Special Condition 12: The installation was required to install and operate a water spray injection system to control NO_x emission from the eight turbines when firing diesel fuel. Since the turbines can no longer burn diesel fuel this condition is not included in the operating permit.

Special Condition 14: this condition states that the installation shall keep monthly records to determine compliance with Special Conditions 3 and 4. Special Condition 4 is not included in the operating permit, therefore Special Condition 14 has been revised as follows:

“NRG Energy shall keep monthly records that are adequate to determine compliance with Emission Limitation No. 3. Attachment D, Individual Operational Schedule, or an equivalent form of the company’s own design, is suitable for this purpose. The most recent 60 months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources’ personnel upon request.”

Special Condition 29: The reference to diesel fuel has been removed from this condition since the turbines can no longer burn diesel fuel.

Special Condition 30: This condition requires reporting to the Air Pollution Control Program's Enforcement Section within ten days of an exceedance of the limitation established by Special Condition, since Special Condition 4 is not included in the operating permit, this condition was omitted as well.

Construction Permit 052000-015, Special Conditions 16-17: These conditions were not included in the permit as they contain requirements of the turbines regarding the use of diesel fuel.

New Source Performance Standards (NSPS) Applicability

40 CFR Part 60 Subpart GG, *Standards of Performance for Stationary Gas Turbines*

This subpart applies to the combustion turbines (EU0010 through EU0080). Per 40 CFR 60.332(b), stationary gas turbines with a heat input load equal to or greater than 107.2 gigajoules per hour (100 mmBtu/hr) have a NOx limit determined by the following equation:

$$STD = (0.0075)(14.4/Y) + F$$

Where:

STD = allowable NOx emissions (% by volume at 15 percent oxygen and on a dry basis)
 Y = manufacturer's rated heat rate at manufacturer's rated load (kilojoules per watt hour) or, actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt-hour.

Given: Manufacturer's Rated Heat Rate = 10,770 Btu/kW-hr
 Y = (10,770 Btu/kW-hr)(1.0548(kJ/Btu))(1kW/1000W) = 11.4 kJ/W-hr
 F = NOx emission allowance for fuel bound nitrogen as defined in the following table:

Fuel-Bound Nitrogen	
% (by weight)	F (NOx percent by volume)
N ≤ 0.015	0
0.015 ≤ 0.1	0.04 x N
0.1 < N ≤ 0.25	0.004 + 0.0067 x (N-0.1)
N > 0.25	0.005

N = the nitrogen content of the fuel (% by weight)
 F = 0 (The installation does not take credit for fuel-bound nitrogen and therefore F factor is 0)

$$STD = (0.0075) \times (14.4/11.4) + 0$$

$$STD = 0.0087\% \text{ or } 94.7 \text{ ppmv NOx at 15\% oxygen}$$

BACT limitation of 12 ppmv NOx < 94.7 ppmv NOx therefore meeting BACT NOx limitation satisfies Subpart GG.

40 CFR Part 60 Subpart Kb, *Standards of Performance for Volatile Organic Liquid Storage Vessels*
Subpart Kb applies to VOC storage vessels that were constructed after July 23, 1984, with storage capacity greater than 10,567 gallons. The installation has eight storage tanks that have a capacity of 2,600 gallons each therefore this subpart does not apply.

40 CFR Part 60 Subpart IIII, *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*
Subpart IIII does not apply to Emission Unit EU0090 Fire Pump because the fire pump was not manufactured after April 1, 2006 or Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.

40 CFR Part 60 Subpart KKKK, *Standards of Performance for Stationary Combustion Turbines*
Subpart KKKK does not apply to Emission Units EU0010 through EU0080 Combustion Turbines because the turbines did not commence construction, modification or reconstruction after February 18, 2005.

Maximum Achievable Control Technology (MACT) Applicability

40 CFR Part 63, Subpart ZZZZ – National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

This subpart applies to the Emergency Diesel Fire Pump, EU0090.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

In the permit application and according to Air Pollution Control Program records, there was no indication that any Missouri Air Conservation Law, Asbestos Abatement, 643.225 through 643.250; 10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants, Subpart M, National Standards for Asbestos; and 10 CSR 10-6.250, Asbestos Abatement Projects - Certification, Accreditation, and Business Exemption Requirements apply to this installation. The installation is subject to these regulations if they undertake any projects that deal with or involve any asbestos containing materials. None of the installation's operating projects underway at the time of this review deal with or involve asbestos containing material. Therefore, the above regulations were not cited in the operating permit. If the installation should undertake any construction or demolition projects in the future that deal with or involve any asbestos containing materials, the installation must follow all of the applicable requirements of the above rules related to that specific project.

Compliance Assurance Monitoring (CAM) Applicability

40 CFR Part 64, *Compliance Assurance Monitoring (CAM)*

The CAM rule applies to each pollutant specific emission unit that:

- Is subject to an emission limitation or standard, and
- Uses a control device to achieve compliance, and
- Has pre-control emissions that exceed or are equivalent to the major source threshold.

40 CFR Part 64 is not applicable because none of the pollutant-specific emission units uses a control device to achieve compliance with a relevant standard.

Other Regulatory Determinations

10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*

The eight turbine generators (EU0010 through EU0080) are not subject to this rule because internal combustions engines are exempted under 10 CSR 10-6.220(1)(A).

10 CSR 10-6.260, *Restriction of Emission of Sulfur Compounds*

This rule was not applied to Emission Units EU0010 through EU0080 because these units are subject to a sulfur standard through 10 CSR 10-6.070 (40 CR Part 60, Subpart GG). Section (1)(A) of the rule specifically exempts units that are subject to a sulfur standard under NSPS or MACT standards.

This rule does apply to the diesel fire pump engine. The unit is in compliance as summarized in the following table:

Emission Unit	Emission Unit Description		SO ₂ Emission Factor (lb/mmBtu)	SO ₂ Emissions (ppmv)	SO ₂ limit (ppmv)
EU0090	Fire Pump Engine	Diesel Fuel Fuel Oil	0.29 AP42 Table 3.3-1	169	500

S = sulfur content of the fuel
 General Equation: ppmv SO₂ = SO₂ Emission Factor / F Factor / Conversion Factor

- The SO₂ emission factor is the emission factor presented in the following table. It assumes that all of the sulfur in the fuel is converted to SO₂ emissions.
- The F factor is the ratio of gas volume of products of combustion to the heat content of the fuel. For fuel oil the F factor is 10,332 wscf/mmBtu. For natural gas the F factor is 10,610 wscf/mmBtu. (40 CFR Part 60 Appendix A Method 19 Tbl 19-1).
- The conversion factor is 1.660E-7 lb/scf per ppmv (40 CFR Part 60 Appendix A Method 19).

Sulfur emissions in the form of SO₃ converted from SO₂ are considered insignificant and it is highly unlikely that the limitations of 10 CSR 10-6.260(3)(B) will ever be exceeded.

An updated Potential to Emit for this facility is shown below:

Pollutant	Potential to Emit (tons/yr) ¹
CO	281.3
CO ₂ e	67.69
NO _x	487.9
PM ₁₀	52.8
SO _x	8.41
VOC	9.64
HAP	-

¹This PTE is based upon 8760 annual hours of uncontrolled operation unless otherwise stated.

Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis

Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons:

- The specific pollutant regulated by that rule is not emitted by the installation;
- The installation is not in the source category regulated by that rule;

3. The installation is not in the county or specific area that is regulated under the authority of that rule;
4. The installation does not contain the type of emission unit which is regulated by that rule;
5. The rule is only for administrative purposes.

Should a later determination conclude that the installation is subject to one or more of the regulations cited in this Statement of Basis or other regulations which were not cited, the installation shall determine and demonstrate, to the Air Pollution Control Program's satisfaction, the installation's compliance with that regulation(s). If the installation is not in compliance with a regulation, which was not previously cited, the installation shall submit to the Air Pollution Control Program a schedule for achieving compliance for that regulation(s).

Prepared by:

Jill Wade, P.E.
Environmental Engineer

CERTIFIED MAIL: 70093410000190188988
RETURN RECEIPT REQUESTED

Mr. Michael L. Menne, Vice President
Ameren Services
1901 Chouteau Avenue
PO Box 66149, MC 602
St. Louis, MO 63166-6149

Re: Audrain Power Plant, 007-0053
Permit Number: **OP2011-028**

Dear Mr. Menne:

Enclosed with this letter is your Part 70 operating permit. Please review this document carefully. Operation of your installation in accordance with the rules and regulations cited in this document is necessary for continued compliance. It is very important that you read and understand the requirements contained in your permit.

You may appeal this permit to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.078.16 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you have any questions or need additional information regarding this permit, please do not hesitate to contact Jill Wade, P.E., at the Department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102, or by telephone at (573) 751-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Michael J. Stansfield, P.E.
Operating Permit Unit Chief

MJS:jwk

Enclosures

c: Northeast Regional Office
PAMS File: 2008-12-042