



## 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:** OP2011-001A  
**Expiration Date:** February 14, 2016  
**Installation ID:** 183-0001  
**Project Number:** 2011-04-063

**Installation Name and Address**

Ameren Missouri - Sioux  
8501 N State Route 94  
West Alton, MO 63386  
St. Charles County

**Parent Company's Name and Address**

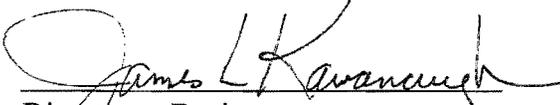
Ameren Corporation  
1901 Chouteau Avenue  
St. Louis, MO 63103

**Installation Description:**

Ameren Missouri - Sioux is a power plant that converts energy from coal and other fuels into steam that powers electrical generating equipment. There are two coal-fired cyclone boilers on site as well as an auxiliary boiler and three emergency diesel generators. These boilers are also permitted to burn Tire Derived Fuel (TDF) and Petroleum Coke. Fuel oil is utilized for ignition and flame stabilization. The installation has coal unloading, conveying, stockpiles, and crushing equipment to supply the boilers. The installation is a major source of Particulate Matter  $\leq$  Ten Microns ( $PM_{10}$ ), Particulate Matter  $\leq$  2.5 Microns ( $PM_{2.5}$ ), Sulfur Oxides ( $SO_x$ ), Nitrogen Oxides ( $NO_x$ ), Volatile Organic Compounds (VOCs), Carbon Monoxide (CO), Greenhouse Gases ( $CO_2e$ ), and Hazardous Air Pollutants (HAPs) and is located in St. Charles County.

MAY 13 2011

Effective Date

  
Director or Designee  
Department of Natural Resources

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## I. Installation Description and Equipment Listing

### INSTALLATION DESCRIPTION

Ameren Missouri - Sioux is a power plant that converts energy from coal and other fuels into steam that powers electrical generating equipment. There are two coal-fired cyclone boilers on site as well as an auxiliary boiler and three emergency diesel generators. These boilers are also permitted to burn Tire Derived Fuel (TDF) and Petroleum Coke. Fuel oil is utilized for ignition and flame stabilization. The installation has coal unloading, conveying, stockpiles, and crushing equipment to supply the boilers. The installation is a major source of Particulate Matter  $\leq$  Ten Microns ( $PM_{10}$ ), Particulate Matter  $\leq$  2.5 Microns ( $PM_{2.5}$ ), Sulfur Oxides ( $SO_x$ ), Nitrogen Oxides ( $NO_x$ ), Volatile Organic Compounds (VOCs), Carbon Monoxide (CO), Greenhouse Gases ( $CO_{2e}$ ), and Hazardous Air Pollutants (HAPs) and is located in St. Charles County.

<b>Reported Air Pollutant Emissions, tons per year</b>					
	<b>2009</b>	<b>2008</b>	<b>2007</b>	<b>2006</b>	<b>2005</b>
<b>Particulate Matter <math>\leq</math> Ten Microns (<math>PM_{10}</math>)</b>	58.13	58.79	68.84	67.41	69.05
<b>Particulate Matter <math>\leq</math> 2.5 Microns (<math>PM_{2.5}</math>)</b>	18.24	8.47	-	-	37.86
<b>Sulfur Oxides (<math>SO_x</math>)</b>	46,457.47	48,147.62	46,984.44	44,152.65	51,269.20
<b>Nitrogen Oxides (<math>NO_x</math>)</b>	6,640.50	7,336.12	6,448.25	7,432.67	8,560.02
<b>Volatile Organic Compounds (VOC)</b>	165.62	168.11	192.49	183.49	188.24
<b>Carbon Monoxide (CO)</b>	753.81	765.30	875.49	835.20	860.08
<b>Lead (Pb)</b>	0.01	0.41	0.47	0.45	0.47
<b>Hazardous Air Pollutants (HAPs)</b>	855.68	524.23	901.04	631.07	706.11
<b>Ammonia (<math>NH_3</math>)</b>	0.85	0.86	-	-	-

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**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
B-1	Boiler 1
B-2	Boiler 2
B-3	Auxiliary Boiler
B-5A	Emergency Diesel Generator
B-5B	Emergency Diesel Generator
B-5C	Emergency Diesel Generator
M-1	Coal Unloading-Rail
M-2	Coal Storage Pile
M-3	Coal Transfer & Conveying
M-4	Coal Crushing
M-5	Coal Pile Stackout
MH-1	Barge Unloading Clamshell Unloader
MH-2	Barge Unloading Material Transfer Hopper
MH-3	Barge Unloading Material Transfer – Conveyer (Enclosed)
MH-4	Barge Unloading Material Transfer – Conveyor (Enclosed)
EP-1	Limestone Storage Dome Bin Vent Filter Exhaust Fan
EP-2	Limestone Storage Dome Bin Vent Filter Exhaust Fan
EP-3	Limestone Storage Dome Bin Vent Filter Exhaust Fan
EP-4	Limestone Storage Dome Bin Vent Filter Exhaust Fan
HR-1	Haul Road
P-1	Parts Washers
TK-11	1,000 gallon Above Ground Gasoline Storage Tank
IC-1	Emergency Diesel Fire Pump
IC-2	Emergency Diesel Fire Pump
IC-5	Emergency Diesel Quench Pump for WFGD Absorber
IC-6	Emergency Diesel Quench Pump for WFGD Absorber

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**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

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TK-1	30,000 gallon Fuel Oil Storage Tank
TK-2	15,000 gallon Fuel Oil Storage Tank
TK-3	4,000 gallon Used Oil Storage Tank
TK-4	15,000 gallon Turbine Lube Oil Storage Tank (Dirty Oil)
TK-5	15,000 gallon Turbine Lube Oil Storage Tank (Clean Oil)
TK-6	16,000 gallon Turbine Lube Oil Storage Tank (New Oil)
TK-7	550 gallon Barge Unloader Diesel Storage Tank
TK-8	1,700 gallon Fuel Oil Storage Tank for B-5A
TK-9	1,700 gallon Fuel Oil Storage Tank for B-5B
TK-10	1,700 gallon Fuel Oil Storage Tank for B-5C
TK-12	10,000 gallon Turbine Lube Oil Reservoir
TK-13	10,000 gallon Turbine Lube Oil Reservoir
TK-14	2,250 gallon B-1 Feed Pump Reservoir
TK-15	2,250 gallon B-2 Feed Pump Reservoir
TK-16	1,150 gallon Start-Up B-1 Feed Pump Reservoir
TK-17	1,150 gallon Start-Up B-2 Feed Pump Reservoir
TK-18	300 gallon Emergency Diesel Fire Pump Tank
TK-19	300 gallon Emergency Diesel Fire Pump Tank
TK-20	185 gallon Emergency Diesel Quench Pump Tank
TK-21	185 gallon Emergency Diesel Quench Pump Tank
DC-1	BeneTech Pulse Jet Dust Collector

## **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.

<b>(B-1 and B-2) – Boiler Units 1 and 2</b>			
Emission Unit	Description	Manufacturer/ Model #	Stack No.
B-1	Boiler 1, Coal fired cyclone boiler, Initial Operation May 1967, 4920 mmBtu/hr (Design Rating)	Babcock & Wilcox/ BW 21279	S-1
B-2	Boiler 2, Coal fired cyclone boiler, Initial Operation May 1968, 4920 mmBtu/hr (Design Rating)	Babcock & Wilcox/ BW 21280	S-2

<b>PERMIT CONDITION (B-1 and B-2) – 001</b> <b>Boiler Units 1 and 2</b> <b>10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds</b>
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**Emission Limitations:**

- No person shall cause or allow emissions of sulfur dioxide into the atmosphere from the combustion of any fuels in excess of 4.8 pounds of sulfur dioxide per million BTUs actual heat input averaged on a daily average. Each source may emit sulfur dioxide at a rate not to exceed the allowable rate by more than twenty percent (20 percent ) for not more than three (3) days in any month.
- 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:<sup>1</sup>

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

<sup>1</sup>This requirement is not federally enforceable. This requirement can only be directly enforced by the State of Missouri.

**Monitoring/Record Keeping:**

- Install, maintain, and operate a continuous emission monitoring system for measuring the SO<sub>2</sub> emission rate (lbs SO<sub>2</sub>/mmBtu) in accordance with 40 CFR Part 75 and 40 CFR Part 60, Appendix A, Method 19.
- Comply with the quality assurance requirements in 40 CFR Part 75, Appendix B.

3. Conduct, on the frequency required in Part 75, Appendix B, a Relative Accuracy Test Audit on the continuous emission monitoring system, pursuant to 40 CFR Part 75, using Reference Method 6c for SO<sub>2</sub>, or equivalent EPA approved method.
4. For a complete list of all testing and quality assurance measures required, review 40 CFR Part 75.
5. Maintain hourly records of the SO<sub>2</sub> emission rate (lbs SO<sub>2</sub>/mmBtu) in accordance with 40 CFR Part 75 and 40 CFR Part 60, Appendix A, Method 19.
6. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
7. All records shall be maintained for five (5) years.

***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 emission limitations, monitoring/recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION (B-1 and B-2) – 002**  
**Boiler Units 1 and 2**  
**10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants**

***Emission Limitation:***

1. No owner or other person shall cause or permit to be discharged into the atmosphere from these emission units any visible emissions with an opacity greater than 20 percent.
2. Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any sixty (60) minutes air contaminants with an opacity up to 40 percent .

***Monitoring:***

The permittee shall install, certify, operate and maintain a certified Continuous Opacity Monitoring System (COMS) with an automated data acquisition and handling system for measuring and recording the opacity of emissions (in percent opacity) discharged to the atmosphere.

***Record Keeping:***

1. A monitoring report shall include the following information as applicable:
  - a) Summary information on the number, duration and cause (including unknown cause, if applicable) of exceedances, as applicable, and the corrective actions taken;
  - b) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable).
2. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
3. All records must be maintained for five (5) years.

***Reporting:***

1. Quarterly reports containing the information in 1(a) and (b) above shall be postmarked no later than 30 days following the end of each calendar quarter. The reports shall be submitted to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102.
2. 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.
3. The permittee shall report any deviations from the emission limitation, monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION (B-1 and B-2) – 003**

**Boiler Units 1 and 2**

**10 CSR 10-5.030 Maximum Allowable Emission of Particulate Matter From Fuel Burning  
Equipment Used for Indirect Heating**

**40 CFR Part 64 Compliance Assurance Monitoring**

***Operational Limitation:***

1. The permittee shall perform stack testing using Method 17 for filterable PM and Method 202 or Method OTM28 for condensable PM within one year of the effective date of this operating permit. This stack testing shall not occur until the recently installed flue gas desulfurization has been operational for at least 180 days (i.e. has reached normal operation).
  - a) The permittee shall submit a Proposed Stack Test Plan to the Air Pollution Control Program no later than 30 days prior to the date of stack testing so that the test plan may be reviewed and approved and an observer may be present during the testing.
2. The permittee shall apply for an operating permit significant modification to update the CAM monitoring approach within six months of completion of the above required stack testing. The significant modification application shall include stack testing results and a new filterable PM to Opacity correlation along with proposed opacity levels for excursions and exceedances. All calculations for the correlation shall be included as well as explanations for the determination of the excursion and exceedance levels.
3. The permittee shall perform repeat stack testing every three years:
  - a) The permittee shall submit a Proposed Stack Test Plan to the Air Pollution Control Program no later than 30 days prior to the date of stack testing so that the test plan may be reviewed and approved and an observer may be present during the testing.
  - b) The permittee shall perform the stack testing using Method 17 for filterable PM and Method 202 or Method OTM28 for condensable PM.
  - c) The permittee shall apply for an operating permit significant modification to update the CAM monitoring approach within 6 months of completion of the above required repeat stack testing. The significant modification application shall include stack testing results and a new filterable PM to Opacity correlation along with proposed opacity levels for excursions and exceedances. All calculations for the correlation shall be included as well as explanations for the determination of the excursion and exceedance levels.

**Emission Limitation:**

The permittee shall not emit particulate matter in excess of 0.12 lbs/mmBtu of heat input for each individual boiler.

**Monitoring:**

1. The permittee shall install, certify, operate and maintain a certified Continuous Opacity Monitoring System (COMS) with an automated data acquisition and handling system for measuring and recording the opacity of emissions (in percent opacity) discharged to the atmosphere in order to provide a reasonable assurance of the performance of the electrostatic precipitators (ESP). Previously installed and certified monitoring systems that conform to provisions of the Performance Specification for COMS meet the monitoring requirements.
2. The performance requirements for the COMS and an excursion with its associated averaging time for each emission unit shall be as specified in the following table:

<b>Ameren Missouri Sioux Plant - CAM Monitoring Approach for Boiler #1 &amp; #2</b>	
<b>Particulate Matter (PM) Compliance Indicator</b>	
<b>Indicator</b>	Opacity
<b>Measurement Approach</b>	Continuous Opacity Monitoring System (COMS)
<b>Indicator Range</b>	Based on stack test data submitted by the Permittee, the baseline 3-hour average opacity is in the range of 7-8% for each boiler.  An excursion is defined as a 1-hour average opacity greater than 24%. Excursions trigger an inspection, corrective action, and a reporting requirement.  Based on stack test data submitted by the Permittee, a PM exceedance has occurred if the 3-hour average stack opacity exceeds 29% for boiler #1 and 26% for boiler #2.
<b>Performance Criteria</b>	
<b>Data Representativeness</b>	Each boiler discharges to a dedicated stack with no bypass capabilities. Each stack is equipped with a COMS located downstream of the ESP that complies with the applicable version of 40 CFR Part 60, Appendix B, Performance Specification 1 (PS-1).
<b>Verification of Operational Status</b>	Not applicable since the selected monitoring approach utilizes existing COMS that were initially installed and evaluated per the applicable version of PS-1.
<b>QA/QC Practices and Criteria</b>	Perform a daily zero and calibration drift check, periodic cleaning of optical surfaces and other periodic QA/QC checks as specified in applicable version of PS-1.
<b>Monitoring Frequency</b>	Continuous [i.e., the COMS is to complete a minimum of one cycle (i.e., sampling, analyzing, and data recording) for each successive 10-second period].
<b>Data Collection Procedure</b>	
<b>Averaging Period</b>	The data acquisition system is to reduce the 10-second data points to 6-minute, 1-hour, and 3-hour block averages.
<b>Reporting</b>	Summary information on the number, duration, and cause for any excursions and COMS downtime will be reported on a semi-annual basis.

3. Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment. [§64.7(b)]
4. Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-

specific emissions units are operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. [§64.7(c)]

5. Response to excursions or exceedances: [§64.7(d)]
  - a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any start-up, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused start-up or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. [§64.7(d)(1)]
  - b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process. [§64.7(d)(2)]
6. Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the permitting authority and, if necessary, submit a proposed modification to the Part 70 permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters. [§64.7(e)]

***Quality improvement plan (QIP):***

1. The permittee shall develop and implement a QIP if either boiler has accumulated excursions exceeding five percent duration of the operating time during the reporting period.
2. Elements of a QIP: [§64.8(b)]
  - a) The owner or operator shall maintain a written QIP, if required, and have it available for inspection. [§64.8(b)(1)]
  - b) The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate: [§64.8(b)(2)]
    - i) Improved preventive maintenance practices. [§64.8(b)(2)(i)]
    - ii) Process operation changes. [§64.8(b)(2)(ii)]

- iii) Appropriate improvements to control methods. [§64.8(b)(2)(iii)]
  - iv) Other steps appropriate to correct control performance. [§64.8(b)(2)(iv)]
  - v) More frequent or improved monitoring (only in conjunction with one or more steps under Paragraphs (b)(2)(i) through (iv) of this section). [§64.8(b)(2)(v)]
3. If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the permitting authority if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined. [§64.8(c)]
  4. Following implementation of a QIP, upon any subsequent determination pursuant to §64.7(d)(2), the Administrator or the permitting authority may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:
    - a) Failed to address the cause of the control device performance problems; or [§64.8(d)(1)]
    - b) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. [§64.8(d)(2)]
  5. Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. [§64.8(e)]

***Recordkeeping:***

1. The owner or operator shall comply with the recordkeeping requirements specified in §70.6(a)(3)(ii) of this chapter. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to §64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). [§64.9(b)(1)]
2. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. [§64.9(b)(2)]
3. All records shall be kept for no less than five years and be made available immediately to any Missouri Department of Natural Resources' personnel upon request.

***Reporting:***

1. The owner or operator shall submit monitoring reports to the permitting authority in accordance with §70.6(a)(3)(iii) of this chapter. [§64.9(a)(1)]
2. A report for monitoring under this part shall include, at a minimum, the information required under §70.6(a)(3)(iii) of this chapter and the following information, as applicable: [§64.9(a)(2)]
  - a) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken; [§64.9(a)(2)(i)]
  - b) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and [§64.9(a)(2)(ii)]

- c) A description of the actions taken to implement a QIP, if a QIP is required, during the reporting period as specified in §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.  
[§64.9(a)(2)(iii)]
3. 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.
  4. The permittee shall report any deviations from the emission limitation, monitoring, quality improvement plan, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.
  5. Emissions in excess of the level of 0.12 lbs/mmBtu of heat input during periods of start-up, shutdown, and malfunction shall be reported as required by the provisions of 10 CSR 10-6.050, *Start-up, Shutdown and Malfunction Conditions*. Based upon information submitted by the permittee and any other pertinent information available, the Director shall determine 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.

**PERMIT CONDITION (B-1 and B-2) – 004**  
**Boiler Units 1 and 2**  
**10 CSR 10-6.270 Acid Rain Source Permits Required**  
**40 CFR Parts 72, 73, and 75 through 78**

***Emission Limitation:***

1. The permittee shall obtain an Acid Rain Source Permit for the combustion units (Boiler 1 B-1 and Boiler 2 B-2) pursuant to Title IV of the Clean Air Act.
  - a) Acid Rain Permit OP2008-002 (Missouri Department of Natural Resources, project number 2004-07-032) was issued to this facility on January 14, 2008. Attachment N contains a copy of this permit. The permit expires on December 31, 2011. The permittee shall submit a renewal application no later June 30, 2011.

***Monitoring/Recordkeeping:***

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

***Reporting:***

1. Annual Compliance Certification.
2. The permittee shall report any deviations of the emission limitation, monitoring/recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification required by Section V of this permit.

**PERMIT CONDITION (B-1 and B-2) – 005**

**Boiler Units 1 and 2**

**10 CSR 10-6.362 Clean Air Interstate Rule Annual NO<sub>x</sub> Trading Program**  
**10 CSR 10-6.364 Clean Air Interstate Rule Seasonal NO<sub>x</sub> Trading Program**  
**10 CSR 10-6.366 Clean Air Interstate Rule SO<sub>x</sub> Trading Program**

***Emission Limitation:***

1. The permittee shall obtain a CAIR Permit for the combustion units (Boiler 1 B-1 and Boiler 2 B-2) pursuant to Title V of the Clean Air Act.
  - a) This facility submitted a CAIR application to the Missouri Department of Natural Resources on July 2, 2007. Attachment O contains a copy of this permit. The permit has been incorporated into this operating permit and is, therefore, effective as long as this Part 70 Operating Permit is effective. The permittee shall submit a renewal CAIR application at the same time as they submit a renewal Part 70 Operating Permit application.

***Monitoring/Recordkeeping:***

1. The permittee shall retain the CAIR permit issued to this installation onsite.
2. The permittee shall immediately make the CAIR permit available to any Missouri Department of Natural Resources' personnel upon request.

***Reporting:***

1. Annual Compliance Certification.
2. The permittee shall report any deviations of the emission limitation, monitoring/recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification required by Section V of this permit.

**PERMIT CONDITION (B-1 and B-2) – 006**

**Boiler Units 1 and 2**

**10 CSR 10-6.065(2)(C) and 10 CSR 10-6.065(5)(A) Voluntary Limitation(s)**

***Operational Limitations:***

1. The permittee shall combust less than 11 tons per day of municipal solid waste.
2. Acceptable materials are listed in Section V of this permit under Reasonably Anticipated Operating Scenarios.

***Monitoring/Recordkeeping:***

1. The permittee shall maintain a log of all municipal solid waste combusted using Attachment I or an equivalent form generated by the permittee. The log shall include:
  - a) Date of acceptable material burning.
  - b) Type of acceptable material burned.
  - c) Amount (tons) of acceptable material burned.
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 (5) years.

***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 condition, or any malfunction which could possibly cause an exceedance of this condition.
2. The permittee shall report any deviations from the operational limitations, monitoring/recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

<p style="text-align: center;"><b>PERMIT CONDITION (B-1 and B-2) – 007</b> <b>Boiler Units 1 and 2</b> <b>10 CSR 10-6.060 Construction Permits Required</b> <b>Construction Permit 0993-006, Issued September 17, 1993</b></p>
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***Operational Limitation:***

Special Condition 1: Combustion of TDF (tire derived fuel) shall not exceed 50,000 tons during any consecutive 12-month period.

***Monitoring/Recordkeeping:***

1. Special Condition 2: The permittee shall monitor the amount of TDF consumed each day and shall compile a monthly TDF consumption summary.
2. Special Condition 3: The permittee shall determine compliance with the 50,000 ton limit by the 10<sup>th</sup> day of each month by summarizing the most recent 12 months of data.
3. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
4. All records shall be maintained for five (5) years.

***Reporting:***

1. Special Condition 5: 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 the end of the month during which the violation occurred if the 12-month cumulative total recorded shows that the source exceeded the 50,000 ton limit.
2. The permittee shall report any deviations from the operational limitations, monitoring/recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION (B-1 and B-2) – 008**  
**Boiler Units 1 and 2**  
**10 CSR 10-6.060 Construction Permits Required**  
**Construction Permit 1198-011, Issued October 23, 1998**

***Emission Limitation:***

Special Condition 1: The permittee shall not emit more than 4.73 pounds of sulfur dioxide (SO<sub>2</sub>) per million BTUs (mmBtu) of actual heat input on a daily average basis when burning petroleum coke in Boiler 1 (B-1) and/or Boiler 2 (B-2). The pounds of SO<sub>2</sub> per mmBtu of actual heat input ratio shall be determined based on the coal(s) and petroleum coke burned. An alternate calculation method may be used if approved by the Air Pollution Control Program.

***Recordkeeping:***

1. The permittee shall maintain an accurate record of the daily average pounds of SO<sub>2</sub> per mmBtu being emitted from Boiler 1 (B-1) and/or Boiler 2 (B-2) while burning petroleum coke. The permittee shall monitor SO<sub>2</sub> emissions using their SO<sub>2</sub> CEMS while burning petroleum coke. The permittee shall use Attachment F, or an equivalent form generated by the permittee that has been submitted and approved by the Air Pollution Control Program, to track daily SO<sub>2</sub> in lbs/mmBtu and Pet Coke throughput in tons.
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 (5) years.

***Reporting:***

1. Special Condition 3: 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 the 4.73 lbs of SO<sub>2</sub> per mmBtu limitation established for Boiler 1 (B-1) and Boiler 2 (B-2) when burning petroleum coke (based on a daily average).
2. The permittee shall report any deviations from the emission limitation, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

<b>(EP-1 through EP-4 and HR-1) – Wet Flue Gas Desulfurization System Limestone Material Handling System</b>	
Emission Unit	Description
EP-1	Limestone Storage Dome Bin Vent Filter Exhaust Fan
EP-2	Limestone Storage Dome Bin Vent Filter Exhaust Fan
EP-3	Limestone Storage Dome Bin Vent Filter Exhaust Fan
EP-4	Limestone Storage Dome Bin Vent Filter Exhaust Fan
HR-1	Haul Road

**PERMIT CONDITION (EP-1 through EP-4 and HR-1) – 001**  
**Wet Flue Gas Desulfurization System Limestone Material Handling System**  
**10 CSR 10-6.060 Construction Permits Required**  
**Construction Permit 092006-003B, Issued June 9, 2008**

***Operational Limitations:***

1. Special Condition 2: Bin Vent Filters (EP-1, EP-2, EP-3, and EP-4) must be in use on the limestone storage silos at all times when any equipment associated with the limestone storage silos are in operation. The bin vent filters shall be operated and maintained in accordance with manufacturer’s specifications.
2. Special Condition 3.A: The permittee shall pave the delivery haul road (HR-1) with materials such as asphalt, concrete, and/or other materials. The pavement will be applied in accordance with industry standards. The paving will be completed prior to the start-up of the new limestone material handling system (Limestone Storage Dome Bin Vent Filter Exhaust Fans EP-1, EP-2, EP-3, and EP-4).
3. Special Condition 3.B: Maintenance and/or repair of the surfaces will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.

***Monitoring/Recordkeeping:***

1. The permittee shall maintain a maintenance/malfunction log for the bin vent filter exhaust fans (EP-1, EP-2, EP-3, and EP-4) using Attachment D or an equivalent form generated by the permittee.
2. The permittee shall retain the manufacturer’s specifications for the operation and maintenance of the bin vent filters on site.
3. The permittee shall retain documentation of the ASTM standards complied with while applying pavement to and maintaining the pavement on the haul road.
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. All records shall be maintained for five (5) years.

***Reporting:***

The permittee shall report any deviations from the operational limitations, monitoring/recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION (EP-1 through EP-4) – 002**  
**Wet Flue Gas Desulfurization System Limestone Material Handling System**  
**10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants**

***Emission Limitation:***

1. No owner or other person shall cause or permit to be discharged into the atmosphere from these emission units any visible emissions with an opacity greater than 20 percent.
2. Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any sixty (60) minutes air contaminants with an opacity up to 40 percent.

***Monitoring:***

1. The permittee shall conduct opacity readings on these emission units using the procedures contained in U.S. EPA Test Method 22. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then conduct a Method 9 observation.
2. The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then;
  - b) Observations must be made once every two weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then;
  - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
3. If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.

***Record Keeping:***

1. The permittee shall maintain records of all observation results (see Attachments B & C, or equivalent forms generated by the permittee), noting:
  - a) Whether any air emissions (except for water vapor) were visible from the emission units,
  - b) All emission units from which visible emissions occurred, and
  - c) Whether the visible emissions exceeded the opacity limit.
2. The permittee shall maintain records of any equipment malfunctions, using Attachment D or an equivalent form generated by the permittee.
3. The permittee shall maintain records of any U.S. EPA Method 9 opacity test performed in accordance with this permit condition.
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. All records must be maintained for five (5) years.

**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 emission limitation, monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION (HR-1) – 002**

**Haul Road**

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

**Emission Limitation:**

1. No owner or other person shall cause or permit to be discharged into the atmosphere from these emission units any visible emissions with an opacity greater than 20 percent.
2. Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any sixty (60) minutes air contaminants with an opacity up to 40 percent.

**Monitoring:**

1. The permittee shall conduct opacity readings on these emission units using the procedures contained in U.S. EPA Test Method 22. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required.
2. The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then
  - b) Observations must be made once every two weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then
  - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
  - d) If, at the issuance of this permit, the permittee has progressed in the schedule listed in a) through c) the permittee may continue to advance accordingly or maintain observations as prescribed in c).
3. If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.
4. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then control fugitive emissions from the haul roads at this site by performing at least one of the following *Best Management Practices*:
  - a) Pavement of Road Surfaces –
    - i) The operator(s) may pave all or any portion of the haul roads with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve "Control of Fugitive Emissions" while the plant is operating.

- ii) Maintenance and/or repair of the road surface will be conducted as necessary according to ASTM standards to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating. The operator shall document which ASTM standards the installation is complying with.
- iii) The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the haul road(s) as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
- b) Usage of Chemical Dust Suppressants –
  - i) The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the unpaved portions of the haul roads. The suppressant will be applied in accordance with the manufacturer's suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
  - ii) The operator shall retain the manufacturer's specifications for the chemical dust suppressant from which the application rate amount and frequency was taken.
  - iii) The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources' personnel upon request.
- c) Usage of Documented Watering –
  - i) The operator(s) shall control the fugitive emissions from all the unpaved portions of the haul roads at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating. For example, the operator(s) shall calculate the total square feet of unpaved vehicle activity area requiring control on any particular day, divide that product by 1,000, and multiply the quotient by 100 gallons for that day.
  - ii) The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operation (e.g., meteorological situations, precipitation events, freezing, etc.)
  - iii) Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating is sufficient reason to suspend water spray applications on the date of the meteorological precipitation occurrence.
  - iv) Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
  - v) The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources' personnel upon request.

**Record Keeping:**

1. The permittee shall maintain records of all observation results (see Attachments B & C, or equivalent forms generated by the permittee), noting:
  - a) Whether any air emissions (except for water vapor) were visible from the emission units,
  - b) All emission units from which visible emissions occurred, and
  - c) Whether the visible emissions exceeded the opacity limit.
2. The permittee shall maintain records of any equipment malfunctions, using Attachment D or an equivalent form generated by the permittee.
3. The permittee shall maintain records of any *Best Management Practices* performed in accordance with this permit condition.
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. All records must be maintained for five (5) years.

**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 emission limitations, monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification required by Section V of this permit.

<b>(B-3) – Auxiliary Boiler</b>			
Emission Unit	Description	Manufacturer /Model #	Stack No.
B-3	Auxiliary Boiler, Fuel Oil 2, Constructed 01/01/1995, 162 mmBtu/hr (Design Rating)	Tampella/95006	S-3

**PERMIT CONDITION (B-3) – 001**  
**Auxiliary Boiler**  
**10 CSR 10-6.060 Construction Permits Required**  
**Construction Permit 0695-016, Issued June 8, 1995**

**Operational Limitations:**

1. Special Condition 2: The permittee shall combust only very low sulfur fuel defined in 40 CFR 60.41b as:
  - a) An oil that contains no more than 0.5 weight percent sulfur or that, when combusted without sulfur dioxide emission control, has a sulfur dioxide emission rate equal to or less than 140 ng/J (0.32 lb/mmBtu) heat input.
2. Special Condition 3: The permittee shall limit the “annual capacity factor,” as defined in 40 CFR 60.41b, to ten percent or less.
  - a) Annual capacity factor means the ratio between the actual heat input to a steam generating unit during a calendar year and the potential heat input to the steam generating unit had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity

***Monitoring/Recordkeeping:***

1. Special Condition 4: The permittee shall install, calibrate, maintain, and operate a continuous monitoring system for measuring the opacity of emissions discharged to the atmosphere and record the output of the system, as required by 40 CFR 60.48b(a).
2. Special Condition 6.A: The permittee shall maintain invoices documenting that all fuel purchased for the Auxiliary Boiler (B-3) is very low sulfur oil. [40 CFR 60.42b(j)(2) and 40 CFR 60.49b(r)]
3. Special Condition 6.B: The permittee shall record fuel usage, Btu content, heat input daily, and shall summarize the total Btu input for each calendar month. The Btu input for each 12-consecutive-month period shall be summarized at the end of each calendar month. The information required by this condition shall be recorded using Attachments G and H or equivalent forms generated by the permittee.
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. All records shall be maintained for five (5) years.

***Reporting:***

1. Special Condition 7: 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 the end of each month, if the 12-month cumulative total heat input shows that the source exceeded the annual capacity factor limit of ten percent.
2. The permittee shall report any deviations from the operational limitations, monitoring/recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION (B-3) – 002**

**Auxiliary Boiler**

**10 CSR 10-6.070 New Source Performance Regulations**

**40 CFR Part 60 Subpart Db Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units**

***Standards:***

1. Units firing only very low sulfur oil with a potential SO<sub>2</sub> emission rate of 140 ng/J (0.32 lb/mmBtu) heat input or less are exempt from the SO<sub>2</sub> emissions limit in Paragraph (k)(1) of this section. [§60.42b(k)(2)]
2. The owner or operator of an affected facility combusting very low sulfur oil shall demonstrate that the oil meets the definition of very low sulfur oil by: [§60.42b(j)]
  - a) Maintaining fuel records as described in §60.49b(r). [§60.42b(j)(2)]
3. On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one six-minute period per hour of not more than 27 percent opacity. [§60.43b(f)]
4. The opacity standard applies at all times, except during periods of start-up, shutdown, or malfunction. [§60.43b(g)]
5. An owner or operator of an affected facility that combusts only oil that contains no more than 0.3 weight percent sulfur is not subject to the PM limits in this section. [§60.43b(h)(5)]

6. Affected facilities that meet the criteria described below, and that have a heat input capacity of 73 MW (250 mmBtu/hr) or less, are not subject to the NO<sub>x</sub> emission limits under this section:  
[§60.44b(k)]
  - a) Are subject to a federally enforceable requirement limiting operation of the affected facility to the firing of distillate oil and limiting operation of the affected facility to a combined annual capacity factor of ten percent or less for distillate oil. [§60.44b(j)(3)]

***Monitoring/Testing:***

1. The owner or operator of an affected facility that only combusts very low sulfur oil not subject to an SO<sub>2</sub> standard is not subject to the compliance and performance testing requirements of this section if the owner or operator obtains fuel receipts as described in §60.49b(r). [§60.45b(j)]
2. The owner or operator of an affected facility that combusts very low sulfur oil is not subject to SO<sub>2</sub> emission monitoring requirements if the owner or operator maintains fuel records as described in §60.49b(r). [§60.47b(f)]
3. Except as provided in Paragraph (j) of this section, the owner or operator of an affected facility subject to the opacity standard under §60.43b shall install, calibrate, maintain, and operate a continuous opacity monitoring systems (COMS) for measuring the opacity of emissions discharged to the atmosphere and record the output of the system. [§60.48b(a)]
4. The procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems. [§60.48b(e)]

***Recordkeeping:***

1. The owner or operator of an affected facility shall record and maintain the following records:  
[§60.49b(d)]
  - a) The owner or operator of an affected facility that is subject to a federally enforceable permit restricting fuel use to a single fuel such that the facility is not required to continuously monitor any emissions (excluding opacity) or parameters indicative of emissions may elect to record and maintain records of the amount of each fuel combusted during each calendar month.  
[§60.49b(d)(2)]
2. For an affected facility subject to the opacity standard in §60.43b, the owner or operator shall maintain records of opacity. In addition, an owner or operator that elects to monitor emissions according to the requirements in §60.48b(a) shall maintain the following records: [§60.49b(f)]
  - a) For each digital opacity compliance system, the owner or operator shall maintain records and submit reports according to the requirements specified in the site-specific monitoring plan approved by the Administrator. [§60.49b(f)(3)]
3. The owner or operator of an affected facility who elects to demonstrate that the affected facility combusts only very low sulfur oil shall obtain and maintain at the affected facility fuel receipts from the fuel supplier that certify that the oil meets the definition of very low sulfur oil as defined in §60.41b and the applicable sulfur limit. For the purposes of this section, the distillate oil need not meet the fuel nitrogen content specification in the definition of distillate oil. Reports shall be submitted to the Administrator certifying that only very low sulfur oil meeting this definition were combusted in the affected facility during the reporting period. [§60.49b(r)(1)]
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. All records shall be maintained for five (5) years.

**Reporting:**

1. The owner or operator of any affected facility in any category listed below is required to submit excess emission reports for any excess emissions that occurred during the reporting period. [§60.49b(h)]
  - a) Any affected facility subject to the opacity standards in §60.43b(f). [§60.49b(h)(1)]
  - b) For the purpose of §60.43b, excess emissions are defined as all 6-minute periods during which the average opacity exceeds the opacity standards under §60.43b(f). [§60.49b(h)(3)]
2. The owner or operator of an affected facility may submit electronic quarterly reports for opacity in lieu of submitting the written reports required under Paragraphs (h) of this section. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format. [§60.49b(v)]
3. The reporting period for the reports required under this subpart is each six month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period. [§60.49b(w)]
4. The permittee shall report any deviations from the standards, monitoring/testing, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

<b>(B-5A, B-5B, and B-5C) – Emergency Diesel Generators</b>			
Emission Unit	Description	Manufacturer	Stack No.
B-5A	Emergency Diesel Generator, 18.08 mmBtu/hr (Design Rating)	Cummins, Inc.	S-5
B-5B	Emergency Diesel Generator, 18.08 mmBtu/hr (Design Rating)	Cummins, Inc.	S-5
B-5C	Emergency Diesel Generator, 18.08 mmBtu/hr (Design Rating)	Cummins, Inc.	S-5

**PERMIT CONDITION (B-5A, B-5B, and B-5C) – 001**  
**Emergency Diesel Generators**  
**10 CSR 10-6.060 Construction Permits Required**  
**Construction Permit 032004-012A, Issued October 23, 2007**

**Operational Limitation:**

Special Condition 1: The operating hours of Emergency Diesel Generator (B-5A), Emergency Diesel Generator (B-5B), and Emergency Diesel Generator (B-5C) shall not exceed 500 hours each in any consecutive 12-month period. To facilitate the recordkeeping for this condition, the emergency equipment shall be equipped with a non-resettable running time meter.

**Monitoring/Recordkeeping:**

Special Condition 2: The permittee shall maintain a record of the number of operating hours of each emergency generator. Attachment E or an equivalent form generated by the permittee shall be used for this purpose. The permittee shall maintain all records required by this condition for no less than five

years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. These records shall include the operating hours for that month and total hours of operation for the previous 12-month period.

**Reporting:**

1. Special Condition 3: 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 the month during which records indicate that an emergency generator has exceeded the 500 hour limit.
2. The permittee shall report any deviations from the operational limitations, monitoring/recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION (B-5A, B-5B, and B-5C) – 002**  
**Emergency Diesel Generators**  
**10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds**

**Emission Limitations:**

1. The permittee shall not emit more than five hundred part per million by volume (500 ppmv) of sulfur dioxide or more than thirty-five milligrams per cubic meter (35 mg/m<sup>3</sup>) of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three (3)-hour time period.
2. 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.<sup>1</sup>

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

<sup>1</sup>This requirement is not federally enforceable. This requirement can only be directly enforced by the State of Missouri.

**Operational Limitation:**

These emission units shall only combust Fuel Oils Nos. 1 and 2 containing no more than 0.5 percent sulfur.

**Monitoring/Record Keeping:**

1. The permittee shall maintain fuel purchase receipts indicating the sulfur content of the fuel oil.
2. The permittee shall maintain records of any equipment malfunctions, using Attachment D or an equivalent form generated by the permittee.
3. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.

4. All records shall be maintained for five (5) years.

**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 emission limitations, monitoring/recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

<b>(IC-1, IC-2, IC-5, and IC-6) – Emergency Fire Pump Engines</b>	
Emission Unit	Description
IC-1	Emergency Diesel Fire Pump
IC-2	Emergency Diesel Fire Pump
IC-5	Emergency Diesel Quench Pump for WFGD Absorber
IC-6	Emergency Diesel Quench Pump for WFGD Absorber

**PERMIT CONDITION (IC-1, IC-2, IC-5, and IC-6) – 001**  
**Emergency Fire Pump Engines**  
**10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds**

**Emission Limitations:**

1. The permittee shall not emit more than five hundred part per million by volume (500 ppmv) of sulfur dioxide or more than thirty-five milligrams per cubic meter (35 mg/m<sup>3</sup>) of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three (3)-hour time period.
2. 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:<sup>1</sup>

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

<sup>1</sup>This requirement is not federally enforceable. This requirement can only be directly enforced by the State of Missouri.

**Operational Limitation:**

These emission units shall only combust diesel fuel containing no more than 0.5 percent sulfur.

***Monitoring/Record Keeping:***

1. The permittee shall maintain fuel purchase receipts indicating the sulfur content of the diesel fuel.
2. The permittee shall maintain records of any equipment malfunctions, using Attachment D or an equivalent form generated by the permittee.
3. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
4. All records shall be maintained for five (5) years.

***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 emission limitations, monitoring/recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

**PERMIT CONDITION (IC-1, IC-2, IC-5, and IC-6) – 002**  
**Emergency Fire Pump Engines**  
**10 CSR 10-6.070 New Source Performance Regulations**  
**40 CFR Part 60, Subpart III – Standards of Performance for Stationary Compression Ignition**  
**Internal Combustion Engines**

***Standards:***

1. The permittee shall comply with the emission standards in Table 4 to this subpart, for all pollutants. [§60.4205(c)]
2. The permittee shall operate and maintain stationary CI ICE that achieve the emission standards as required in §60.4205(c) according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. [§60.4206]
3. Beginning October 1, 2007, the permittee shall use diesel fuel that meets the requirements of 40 CFR 80.510(a). [§60.4207(a)]
4. Beginning October 1, 2010, the permittee shall use diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road diesel fuel. [§60.4207(b)]
5. The permittee may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of §60.4207(a) and (b) beyond the dates required for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to six months. If additional time is needed, the permittee is required to submit a new petition to the Administrator. [§60.4207(c)]
6. The permittee shall install a non-resettable hour meter prior to start-up of the engine. [§60.4209(a)]
7. The permittee shall operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer. In addition, the permittee may only change those settings that are permitted by the manufacturer. The permittee shall also meet the requirements of 40 CFR Parts 89, 94 and/or 1068, as they apply. [§60.4211(a)]

8. Emergency stationary ICE may be operated 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. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone 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 permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited. [§60.4211(e)]

**Table 4 to Subpart IIII of Part 60 — Emission Standards for Stationary Fire Pump Engines**  
 [As stated in §60.4205(c), the permittee must comply with the following emission standards for stationary fire pump engines]

Maximum engine power	Model year(s)	Emission Standards g/KW-hr (g/HP-hr)		
		NMHC + NO <sub>x</sub>	CO	PM
56≤KW<75 (75≤HP<100)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
130≤KW<225 (175≤HP<300)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)

**Compliance Methods:**

1. The permittee shall demonstrate compliance according to one of the following methods: [60.4211(b)]
  - a) Purchasing an engine certified according to 40 CFR Part 89 or 40 CFR Part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications. [§60.4211(b)(1)]
  - b) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly. [§60.4211(b)(2)]
  - c) Keeping records of engine manufacturer data indicating compliance with the standards. [§60.4211(b)(3)]
  - d) Keeping records of control device vendor data indicating compliance with the standards. [§60.4211(b)(4)]
  - e) Conducting an initial performance test to demonstrate compliance with the emission standards according to the following requirements: [§60.4211(b)(5)]
    - i) The performance test must be conducted according to the in-use testing procedures in 40 CFR Part 1039, Subpart F. [60.4212(a)]
    - ii) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR Part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR Part 1039. [60.4212(b)]

- iii) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD}) \quad \text{Equation 1}$$

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable. Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in §60.4213 of this subpart, as appropriate. [60.4212(c)]

- iv) Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4205(c) must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in §60.4205(c), determined from the Equation 1.

Where:

STD = The standard specified for that pollutant in §60.4205(c). Alternatively, stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4205(c) may follow the testing procedures specified in §60.4213, as appropriate. [60.4212(d)]

**Recordkeeping:**

1. The permittee shall maintain the following records: [60.4214(a)(2)]
  - a) All notifications submitted to comply with this subpart and all documentation supporting any notification. [60.4214(a)(2)(i)]
  - b) Maintenance conducted on the engine. [60.4214(a)(2)(ii)]
  - c) If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards. [60.4214(a)(2)(iii)]
  - d) If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards. [60.4214(a)(2)(iv)]
2. The permittee is not required to submit an initial notification. The permittee shall maintain records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The permittee shall record the time of operation of the engine and the reason the engine was in operation during that time. [60.4214(b)]
3. If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the permittee shall maintain records of any corrective action taken after the backpressure monitor has notified permittee that the high backpressure limit of the engine is approached. [60.4214(c)]
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. All records shall be maintained for five (5) years.

**Reporting:**

The permittee shall report any deviations from the standards, compliance methods, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

<b>(M-1 through M-5) – Coal Handling and Storage</b>	
Emission Unit	Description
M-1	Coal Unloading-Rail
M-2	Coal Storage Pile
M-3	Coal Transfer & Conveying
M-4	Coal Crushing
M-5	Coal Pile Stackout

**PERMIT CONDITION (M-1 through M-5) – 001**  
**Coal Handling and Storage**  
**10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminants**

***Emission Limitations:***

1. No owner or other person shall cause or permit to be discharged into the atmosphere from the emission units any visible emissions with an opacity greater than 20 percent.
2. Exception: A person may discharge into the atmosphere from any source of emissions for a period(s) aggregating not more than six (6) minutes in any sixty (60) minutes air contaminants with an opacity up to 40 percent.

***Monitoring:***

1. The permittee shall conduct opacity readings on these emission units using the procedures contained in U.S. EPA Test Method 22. Readings are only required when the emission unit is operating and when the weather conditions allow. If no visible or other significant emissions are observed using these procedures, then no further observations would be required.
2. The following monitoring schedule must be maintained:
  - a) Weekly observations shall be conducted for a minimum of eight (8) consecutive weeks after permit issuance. Should no violation of this regulation be observed during this period then
  - b) Observations must be made once every two weeks for a period of eight (8) weeks. If a violation is noted, monitoring reverts to weekly. Should no violation of this regulation be observed during this period then
  - c) Observations must be made once per month. If a violation is noted, monitoring reverts to weekly.
  - d) If, at the issuance of this permit, the permittee has progressed in the schedule listed in 2(a) – (c) the permittee may continue to advance accordingly or maintain observations as prescribed in 2(c).
3. If the source reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner from the initial monitoring frequency.
4. For emission units with visible emissions perceived or believed to exceed the applicable opacity standard, the source representative would then control fugitive emissions from the stockpiles at this site by performing at least one of the following *Best Management Practices*:
  - a) Pavement of Stockpile Vehicle Activity Surfaces –
    - i) The operator(s) may pave all or any portion of the vehicle activity areas around the storage piles with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve control of fugitive emissions while the plant is operating.

- ii) Maintenance and/or repair of the road surface will be conducted as necessary according to ASTM standards to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating. The operator shall document which ASTM standards the installation is complying with.
- iii) The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
- b) Usage of Chemical Dust Suppressants –
  - i) The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the vehicle activity areas around the open storage piles. The suppressant will be applied in accordance with the manufacturer's suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
  - ii) The operator shall retain the manufacturer's specifications for the chemical dust suppressant from which the application rate amount and frequency was taken.
  - iii) The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resource's personnel upon request.
- c) Usage of Documented Watering –
  - i) The operator(s) shall control the fugitive emissions from all the vehicle activity areas around the storage piles at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating. (Refer to example for documented watering of haul roads.)
  - ii) The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operations (e.g., meteorological situations, precipitation events, freezing, etc.)
  - iii) Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating is sufficient reason to suspend water spray applications on the date of the meteorological precipitation occurrence.
  - iv) Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
  - v) The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources' personnel upon request.

**Record Keeping:**

1. The permittee shall maintain records of all observation results (see Attachments B & C, or equivalent forms generated by the permittee), noting:
  - a) Whether any air emissions (except for water vapor) were visible from the emission units,
  - b) All emission units from which visible emissions occurred, and
  - c) Whether the visible emissions exceeded the opacity limit.
2. The permittee shall maintain records of any equipment malfunctions, using Attachment D or an equivalent form generated by the permittee.
3. The permittee shall maintain records of any *Best Management Practices* performed in accordance with this permit condition.
4. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
5. All records must be maintained for five (5) years.

**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 emission limitations, monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification required by Section V of this permit.

<b>(MH-1 through MH-4) – Barge Unloading</b>	
Emission Unit	Description
MH-1	Barge Unloading Clamshell Unloader
MH-2	Barge Unloading Material Transfer Hopper
MH-3	Barge Unloading Material Transfer – Conveyor (Enclosed)
MH-4	Barge Unloading Material Transfer – Conveyor (Enclosed)

**PERMIT CONDITION (MH-1 through MH-4) – 001**  
**Barge Unloading**  
**10 CSR 10-6.060 Construction Permits Required**  
**Construction Permit 012001-024, Issued January 26, 2001**

**Operational Limitation:**

Special Condition 1: The permittee shall use a wet suppression system to restrict the emission of Particulate Matter less than ten (10) microns in diameter (PM<sub>10</sub>) from MH-1 Barge Unloading Clamshell Unloader, MH-2 Barge Unloading Material Transfer Hopper, MH-3 Barge Unloading Material Transfer – Conveyor (Enclosed), and MH-4 Barge Unloading Material Transfer – Conveyor (Enclosed) whenever these units are in operation. The amount of water and/or other wet suppression material applied by this PM<sub>10</sub> control system shall be in such quantities that visible fugitive emissions do not enter the ambient air beyond the property boundaries.

**Monitoring/Recordkeeping/Reporting:**

None.

**PERMIT CONDITION (MH-1 through MH-4) – 002**  
**Coal Handling and Storage**  
**10 CSR 10-6.070 New Source Performance Regulations**  
**40 CFR Part 60 Subpart Y Standards of Performance for Coal Preparation and Processing Plants**

***Standards:***

On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater. [§60.254(a)]

***Monitoring:***

1. An owner or operator of each affected facility that commenced construction, reconstruction, or modification on or before April 28, 2008, must conduct all performance tests required by §60.8 to demonstrate compliance with the applicable emission standards using the methods identified in §60.257. [§60.255(a)]
2. The owner or operator must determine compliance with the applicable opacity standards as specified in Paragraphs (a)(1) through (3) of this section. [§60.257(a)]
  - a) Method 9 of Appendix A–4 of this part and the procedures in §60.11 must be used to determine opacity, with the exceptions specified in Paragraphs (a)(1)(i) and (ii). [§60.257(a)(1)]
    - i) The duration of the Method 9 of Appendix A–4 of this part performance test shall be one hour (ten 6-minute averages). [§60.257(a)(1)(i)]
    - ii) If, during the initial 30 minutes of the observation of a Method 9 of Appendix A–4 of this part performance test, all of the six-minute average opacity readings are less than or equal to half the applicable opacity limit, then the observation period may be reduced from one hour to 30 minutes. [§60.257(a)(1)(ii)]
  - b) To determine opacity for fugitive coal dust emissions sources, the additional requirements specified in Paragraphs (a)(2)(i) through (iii) must be used. [§60.257(a)(2)]
    - i) The minimum distance between the observer and the emission source shall be 5.0 meters (16 feet), and the sun shall be oriented in the 140-degree sector of the back. [§60.257(a)(2)(i)]
    - ii) The observer shall select a position that minimizes interference from other fugitive coal dust emissions sources and make observations such that the line of vision is approximately perpendicular to the plume and wind direction. [§60.257(a)(2)(ii)]
    - iii) The observer shall make opacity observations at the point of greatest opacity in that portion of the plume where condensed water vapor is not present. Water vapor is not considered a visible emission. [§60.257(a)(2)(iii)]
  - c) A visible emissions observer may conduct visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions specified in Paragraphs (a)(3)(i) through (iii) of this section are met. [§60.257(a)(3)]
    - i) No more than three emissions points may be read concurrently. [§60.257(a)(3)(i)]
    - ii) All three emissions points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points. [§60.257(a)(3)(ii)]

- iii) If an opacity reading for any one of the three emissions points is within five percent opacity from the applicable standard (excluding readings of zero opacity), then the observer must stop taking readings for the other two points and continue reading just that single point. [§60.257(a)(3)(iii)]

**Recordkeeping/Reporting:**

1. For the purpose of reports required under Section 60.7(c), any owner operator subject to the provisions of this subpart also shall report semi-annually periods of excess emissions as follow: [§60.258(b)]
  - a) All six-minute average opacities that exceed the applicable standard. [§60.258(b)(3)]
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 (5) years.
4. The permittee shall report any deviations from the standards, monitoring, and recordkeeping/reporting requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

<b>(EU0001) – Parts Washers</b>	
Emission Unit	Description
EU0001	Parts Washers

**PERMIT CONDITION (EU0001) – 001**  
**Parts Washers**  
**10 CSR 10-5.300 Control of Emissions From Solvent Metal Cleaning**

**Emission Limitations:**

1. No owner or operator shall operate a cold cleaner using a solvent with a vapor pressure greater than 1.0 mm Hg at twenty degrees Celsius.
2. Exception: The permittee may use an alternative method for reducing cold cleaning emissions if the level of emission control is equivalent to or greater than the requirements listed above. The Director must approve the alternative method.

**Operational Limitations/Equipment Specifications:**

1. Each cold cleaner shall have a cover, which prevents the escape of solvent vapors from the solvent bath while in the closed position, or an enclosed reservoir, which limits the escape of solvent vapors from the solvent bath whenever parts are not being processed in the cleaner.
2. When one or more of the following conditions exist, the design of the cover shall be such that it can be easily operated with one hand such that minimal disturbing of the solvent vapors in the tank occurs. (For covers larger than ten square feet, this shall be accomplished by either mechanical assistance such as spring loading or counter weighing or by power systems):
  - a) The solvent vapor pressure is greater than 0.3 psi measured at 37.8 degrees Celsius (37.8°C) (100 degrees Fahrenheit (100°F)), such as in mineral spirits.
  - b) The solvent is agitated; or
  - c) The solvent is heated.
3. Each cold cleaner shall have a drainage facility, which will be internal so that parts are enclosed under the cover while draining.

4. If an internal drainage facility cannot fit into the cleaning system and the solvent vapor pressure is less than 0.6 psi measured at 37.8°C (100°F), then the cold cleaner shall have an external drainage facility which provides for the solvent to drain back into the solvent bath.
5. Solvent sprays, if used, shall be a solid fluid stream (not a fine, atomized or shower-type spray) and at a pressure which does not cause splashing above or beyond the freeboard.
6. A permanent conspicuous label summarizing the operating procedures shall be affixed to the equipment or in a location readily visible during operation of the equipment.
7. Any cold cleaner which uses a solvent that has a solvent vapor pressure greater than 0.6 psi measured at 37.8°C (100°F) or is heated above 48.9°C (120°F), must use one of the following control devices:
  - a) A freeboard ratio of at least 0.75;
  - b) Water cover (solvent must be insoluble in and heavier than water); or
  - c) Other control systems with a mass balance demonstrated overall VOC emissions reduction efficiency greater than or equal to 65 percent. These control systems must receive approval from the Director prior to their use.
8. Each cold cleaner shall be operated as follows:
  - a) Cold cleaner covers shall be closed whenever parts are not being handled in the cleaners or the solvent must drain into an enclosed reservoir except when performing maintenance or collecting solvent samples.
  - b) Clean parts shall be drained in the freeboard area for at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts shall be positioned so that the solvent drains directly back to the cold cleaner.
  - c) Whenever a cold cleaner fails to perform within the operating parameters established by this regulation, the unit shall be shut down immediately and shall remain shut down until trained service personnel are able to restore operation within the established operating procedures.
  - d) Solvent leaks shall be repaired immediately or the cleaner shall be shut down and leaks secured until the leaks are repaired.
  - e) Any waste material removed from a cold cleaner shall be disposed of by one of the following methods in accordance with the Missouri Hazardous Waste Management Commission Rules codified as 10 CSR 25, as applicable:
    - i) Reduction of the waste material to less than twenty percent VOC solvent by distillation and proper disposal of the still bottom waste, or
    - ii) Stored in closed containers for transfer to a contract reclamation service or disposal facility approved by the Director.
    - iii) Waste solvent shall be stored in covered containers only.
9. Operators must be trained as follows:
  - a) Only persons trained in at least the operation and equipment requirements specified in this rule for their particular solvent metal cleaning process shall be permitted to operate this equipment;
  - b) The supervisor of any person who operates a solvent metal cleaning process shall receive equivalent or greater operational training than the operators; and
  - c) Refresher training shall be given to all solvent metal cleaning equipment operators at least once every 12-month period.

**Monitoring:**

The permittee shall monitor the throughputs of the solvents monthly and maintain material safety data sheets of the cleanup solvents used at the installation.

**Record Keeping:**

1. The permittee shall maintain the following records for each purchase of cold cleaner solvent (see Attachment K or an equivalent form generated by the permittee):
  - a) Name and address of the solvent supplier,
  - b) Date of purchase,
  - c) Type of solvent purchased, and
  - d) Vapor pressure of solvent in mm Hg at 20°C or 68°F.
2. The permittee shall keep monthly inventory records of solvent types and amounts purchased and solvent consumed. The records shall include all types and amounts of solvent containing waste material transferred to either a contract reclamation service or to a disposal installation and all amounts distilled on the premises (see Attachment L or an equivalent form generated by the permittee). The record also shall include maintenance and repair logs that occurred on the cold cleaner (see Attachment D or an equivalent form generated by the permittee).
3. The permittee shall keep training records of solvent metal cleaning for each employee on an annual basis (see Attachment M or an equivalent form generated by the permittee).
4. All records shall be maintained for five years.
5. These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.

**Reporting:**

The permittee shall report any deviations from the emission limitations, operational limitations/equipment specifications, monitoring, and recordkeeping of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

<b>(TK-11) – Gasoline Tank</b>	
Emission Unit	Description
TK-11	1,000 gallon Above Ground Gasoline Storage Tank

<b>PERMIT CONDITION (TK-11) – 001</b> <b>1,000 Gallon Gasoline Storage Tank</b> <b>10 CSR 10-5.220 Control of Petroleum Liquid Storage, Loading and Transfer</b>
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**Operational Limitations:**

1. Gasoline Transfer.
  - a) No owner or operator of a gasoline storage tank or delivery vessel shall cause or permit the transfer of gasoline from a delivery vessel into a gasoline storage tank with a capacity greater than five hundred (500) gallons unless—
    - i) The storage tank is equipped with a submerged fill pipe extending unrestricted to within six inches (6") of the bottom of the tank, and not touching the bottom of the tank, or the storage tank is equipped with a system that allows a bottom fill condition;
    - ii) All storage tank caps and fittings are vapor-tight when gasoline transfer is not taking place; and
    - iii) Each storage tank is vented via a conduit that is—
      - (1) At least two inches (2") inside diameter; and
      - (2) At least twelve feet (12') in height above grade; and
      - (3) Equipped with a pressure/vacuum valve that is CARB certified and MO/PETP approved at three inches water column pressure/eight inches water column vacuum (3"wcp/8"wcv)

except when the owner or operator provides documentation that the system is CARB certified or MO/PETP approved for a different valve and will not function properly with a 3"wcp/8"wcv valve. Initial fueling of motor vehicle systems and ancillary refueling systems previous MO/PETP approval applies for pressure/vacuum values.

***Test Methods:***

Delivery vessel, vapor recovery system or gasoline loading equipment may be monitored by the staff director at any time by a method determined by the staff director to confirm continuing compliance with this rule.

***Reporting/Recordkeeping:***

1. The owner or operator of stationary storage tanks subject to gasoline transfer subsection of this rule shall keep records documenting the vessel owners and number of delivery vessels unloaded by each owner. The owner or operator shall retain on-site copies of the loading ticket, manifest or delivery receipt for each grade of product received, subject to examination by the staff director upon request. If a delivery receipt is retained rather than a manifest or loading ticket, the delivery ticket shall bear the following information: vendor name, date of delivery, quantity of each grade, and the manifest or loading ticket number.
2. The permittee shall maintain all records for five (5) years.
3. The permittee shall make all records available immediately to any Missouri Department of Natural Resources' personnel request.
4. The permittee shall report any deviations from the operational limitations, test methods, and reporting/recordkeeping requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

## 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) 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. The following is only an excerpt from the regulation or code, and is provided for summary purposes only.

### **10 CSR 10-5.040 Use of Fuel in Hand-Fired Equipment Prohibited**

It shall be unlawful to operate any hand-fired fuel-burning equipment in the St. Louis, Missouri metropolitan area. This regulation shall apply to all fuel-burning equipment including, but not limited to, furnaces, heating and cooking stoves and hot water furnaces. It shall not apply to wood-burning fireplaces and wood-burning stoves in dwellings, nor to fires used for recreational purpose, nor to fires used solely for the preparation of food by barbecuing. Hand-fired fuel-burning equipment is any stove, furnace, or other fuel-burning device in which fuel is manually introduced directly into the combustion chamber.

### **10 CSR 10-5.060 Refuse Not to be Burned in Fuel Burning Installations (Contained in State Implementation Plan)**

No person shall burn or cause or permit the burning of refuse in any installation which is designed for the primary purpose of burning fuel.

### **10 CSR 10-5.120 Information on Sales of Fuels to be Provided and Maintained**

Every delivery of coal or residual fuel oil when first delivered to a consumer or wholesaler in the St. Louis metropolitan area must be accompanied by a ticket prepared in triplicate and containing at least the name and address of the seller and the buyer; the grade of fuel; ash content of coal, the source of the fuel, which must be an approved source, and such other information as the Air Conservation Commission may require. One copy of each ticket shall be kept by the person delivering the fuel and be retained for one year; one copy is to be given to the recipient of the fuel to be retained for one year; and, upon request, within 30 days after delivery of the fuel, the delivering party shall mail one copy to the Air Conservation Commission.

### **10 CSR 10-5.130 Certain Coals to be Washed**

The permittee shall not import, sell, offer for sale, expose for sale, exchange, deliver or transport for use and consumption in the St. Louis metropolitan area or use or consume in the said area any coal which as mined containing in excess of 2.0 percent sulfur or 12.0 percent ash calculated as described in 10 CSR 10-5.110, unless it has been cleaned by a process known as "washing" so that it shall contain no more than 12.0 percent ash on a dry basis. The term "washing" is meant to include purifying, cleaning, or removing impurities from coal by mechanical process, regardless of cleaning medium used.

Exception: This regulation shall not apply if a person proposing to use unwashed coal can show that the emission of sulfur dioxide from the plant in which the coal is to be burned will not exceed two and three-tenths (2.3) pounds of sulfur dioxide per million British Thermal Units of heat input to the installation and that emission of particulate matter will be no more than that allowed in 10 CSR 10-5.030.

**10 CSR 10-5.160 Control of Odors in the Ambient Air**

**This requirement is not federally enforceable.**

No person shall emit odorous matter as to cause an objectionable odor on or adjacent to:

- 1) Residential, recreational, institutional, retail sales, hotel or educational premises.
- 2) Industrial premises when air containing odorous matter is diluted with 20 or more volumes of odor-free air; or
- 3) Premises other than those in 1 and 2 above when air containing odorous matter is diluted with four or more volumes of odor-free air.

The previously mentioned requirement shall apply only to objectionable odors. An odor will be deemed objectionable when 30 percent or more of a sample of the people exposed to it believe it to be objectionable in usual places of occupancy; the sample size to be at least 20 people or 75 percent of those exposed if fewer than 20 people are exposed.

**10 CSR 10-5.240 Additional Air Quality Control Measures May be Required When Sources Are Clustered in a Small Land Area**

The Air Conservation Commission may prescribe more restrictive air quality control requirements that are more restrictive and more extensive than provided in regulations of general application for:

- 1) Areas in which there are one or more existing sources and/or proposed new sources of particulate matter in any circular area with a diameter of two miles (including sources outside metropolitan area) from which the sum of particulate emissions allowed from these sources by regulations of general application are or would be greater than 2000 tons per year or 500 pounds per hour.
- 2) Areas in which there are one or more existing sources and/or proposed new sources of sulfur dioxide in any circular area with a diameter of two miles from which the sum of sulfur dioxide emissions from these sources allowed by regulations of general application are or would be greater than 1,000 tons for any consecutive three months or 1,000 pounds per 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:
    - (1) St. Louis metropolitan area. The open burning of household refuse is prohibited;
  - b) Yard waste, with the following exceptions:
    - (1) 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) Ameren Missouri - Sioux 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 Ameren Missouri - Sioux 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 18 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 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 10-6.080 Emission Standards for Hazardous Air Pollutants and 40 CFR Part 61 Subpart M National Emission Standard for Asbestos**

- 1) The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.
- 2) The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification, and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

#### **10 CSR 10-6.100 Alternate Emission Limits**

Proposals for alternate emission limitations shall be submitted on Alternate Emission Limits Permit forms provided by the Department. An installation owner or operator must obtain an Alternate Emission Limits Permit in accordance with 10 CSR 10-6.100 before alternate emission limits may become effective.

**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 submit a full paper EIQ to the Air Pollution Control Program by no later than April 1<sup>st</sup> after the end of each reporting year. The permittee may instead submit a full electronic EIQ via MoEIS by no later than May 1<sup>st</sup> after the end of each reporting year.
- 5) Emission fees are due by no later than June 1<sup>st</sup> after the end of each reporting year. The fees shall be payable to the Missouri Department of Natural Resources.
- 6) 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 12-month period immediately preceding the end of the reporting period.
- 7) 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 10-6.170**

**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.
- 4) The staff director may allow an exemption for unusual and adverse weather conditions for any activity which would otherwise be a violation of this permit condition. These conditions may include, but are not limited to, high winds, extended dry weather periods and extreme cold weather periods.

***Monitoring:***

The permittee shall conduct inspections of its facilities sufficient to determine compliance with this regulation. If the permittee discovers a violation, the permittee shall undertake corrective action to eliminate the violation.

The permittee shall maintain the following monitoring schedule:

- 1) The permittee shall conduct weekly observations for a minimum of eight (8) consecutive weeks after permit issuance.
- 2) Should no violation of this regulation be observed during this period then-
  - a) The permittee may observe once every two (2) weeks for a period of eight (8) weeks.
  - b) If a violation is noted, monitoring reverts to weekly.
  - c) Should no violation of this regulation be observed during this period then-
    - i) The permittee may observe once per month.
    - ii) If a violation is noted, monitoring reverts to weekly.
- 3) If the permittee reverts to weekly monitoring at any time, monitoring frequency will progress in an identical manner to the initial monitoring frequency.

***Recordkeeping:***

The permittee shall document all readings on Attachment A, or its equivalent, noting the following:

- 1) Whether air emissions (except water vapor) remain visible in the ambient air beyond the property line of origin.
- 2) Whether equipment malfunctions contributed to an exceedance.
- 3) Any violations and any corrective actions undertaken to correct the violation.

<b>10 CSR 10-6.180 Measurement of Emissions of Air Contaminants</b>
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- 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 10-6.250 Asbestos Abatement Projects – Certification, Accreditation, and Business Exemption Requirements**

The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos abatement projects to be certified by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the Department to monitor training provided to employees. Each individual who works in asbestos abatement projects must first obtain certification for the appropriate occupation from the Department. Each person who offers training for asbestos abatement occupations must first obtain accreditation from the Department. Certain business entities that meet the requirements for state-approved exemption status must allow the Department to monitor training classes provided to employees who perform asbestos abatement.

**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:
- Monitoring methods outlined in 40 CFR Part 64;
  - Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, “Operating Permits”, and incorporated into an operating permit; and
  - 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:
- Monitoring methods outlined in 40 CFR Part 64;
  - A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, “Operating Permits”, and incorporated into an operating permit; and
  - 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:
- Applicable monitoring or testing methods, cited in:
    - 10 CSR 10-6.030, “Sampling Methods for Air Pollution Sources”;
    - 10 CSR 10-6.040, “Reference Methods”;
    - 10 CSR 10-6.070, “New Source Performance Standards”;
    - 10 CSR 10-6.080, “Emission Standards for Hazardous Air Pollutants”;
  - 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*

## 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 10-6.065(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.

The permittee was granted an Acid Rain Permit (OP2008-002) on January 14, 2008 (see Attachment N). The Acid Rain Permit is effective until December 31, 2011. The permittee shall submit a renewal application no later than June 30, 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 re-issuance, 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**

**Operational Limitations:**

- 1) The permittee may burn the following acceptable materials generated on site:
  - a) On specification used oil (and oil sorbents used in oil spill cleanup) according to the following specifications:

- i) 40 CFR 279.11 *Used Oil Specifications*

- (1) **Table 1** — *Used Oil Not Exceeding Any Allowable Level Shown Below Is Not Subject To This Part When Burned For Energy Recovery*

Constituent/property	Allowable level
Arsenic	5 ppm maximum.
Cadmium	2 ppm maximum.
Chromium	10 ppm maximum.
Lead	100 ppm maximum.
Flash point	100 °F minimum.
Total halogens	4,000 ppm maximum. <sup>1</sup>

Note: Applicable standards for the burning of used oil containing PCBs are imposed by 40 CFR 761.20(e). The allowable levels do not apply to mixtures of used oil and hazardous waste that continue to be regulated as hazardous waste (see §279.10(b)).

<sup>1</sup>Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under §279.10(b)(1). Such used oil is subject to Subpart H of Part 266 of this chapter rather than this part when burned for energy recovery unless the presumption of mixing can be successfully rebutted.

- ii) Only burners in the automotive industry may burn used oil generated from automotive sources in used oil-fired space heaters provided the provisions of 40 CFR 279.23 are met. [§761.20(e)(1)(iii)]

- iii) *Testing of used oil fuel.* Used oil to be burned for energy recovery is presumed to contain quantifiable levels (2 ppm) of PCB unless the marketer obtains analyses (testing) or other information that the used oil fuel does not contain quantifiable levels of PCBs. [§761.20(e)(2)]

- (1) The person who first claims that a used oil fuel does not contain quantifiable level (2 ppm) PCB must obtain analyses or other information to support that claim. [§761.20(e)(2)(i)]

- (2) Testing to determine the PCB concentration in used oil may be conducted on individual samples, or in accordance with the testing procedures described in §761.60(g)(2). However, for purposes of this part, if any PCBs at a concentration of 50 ppm or greater have been added to the container or equipment, then the total container contents must be considered as having a PCB concentration of 50 ppm or greater for purposes of complying with the disposal requirements of this part. [§761.20(e)(2)(ii)]

- (3) Other information documenting that the used oil fuel does not contain quantifiable levels (2 ppm) of PCBs may consist of either personal, special knowledge of the source and composition of the used oil, or a certification from the person generating the used oil claiming that the oil contains no detectable PCBs. [§761.20(e)(2)(iii)]

- b) Boiler cleaning waste:

- i) Shall not exceed 800,000 gallons in any rolling 12-month period.

- ii) The cleaning agent shall remain a solution of hydroxyacetic acid and formic acid.

- c) Feedwater heater cleaning waste:
  - i) Shall not exceed 10,000 gallons in any rolling 12-month period.
  - ii) The cleaning agent shall remain ammonium persulfate.
- d) Spent demineralizer resin from the boiler water purification system:
  - i) Shall not exceed 15 ton in any rolling 12-month period.
  - ii) The styrene/benzene content of the spent demineralizer resin shall not exceed 65 percent.
  - iii) The permittee shall maintain MSDS documenting the HAP contents of all demineralizer resins burned within the boilers.
- e) Used ethylene glycol:
  - i) May be used as a freeze-conditioning agent for the coal supply.
  - ii) Shall not exceed 1.75 tons in any rolling 12-month period.
- 2) The permittee may also burn the following acceptable materials that are transferred to the facility:
  - a) Records may be destroyed at the request of St. Charles County. A county official shall be on site to supervise the burning of the records.
  - b) Confiscated materials may be destroyed at the request of the St. Charles County Sheriff's Department. An official from the St. Charles County Sheriff's Department shall be on site to supervise the burning of the confiscated materials.
- 3) Burning of acceptable materials shall only occur in Boilers 1 or 2.
- 4) Burning of acceptable materials shall only occur at or near full load to ensure that all changes to emissions are negligible.
- 5) No other materials may be burned by the facility without written consent from the Missouri Department of Natural Resources' Air Pollution Control Program.

***Recordkeeping:***

- 1) The permittee shall maintain a log, using Attachment I or an equivalent form generated by the permittee, of acceptable material usage containing the following information:
  - a) Date of acceptable material burning.
  - b) Type of acceptable material burned.
  - c) Amount (tons) of acceptable material burned.
- 2) These records shall be made available for inspection to the Department of Natural Resources' personnel upon request.
- 3) All records shall be maintained for five (5) years.

***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 condition, or any malfunction which could possibly cause an exceedance of this condition.
- 2) The permittee shall report any deviations from the operational limitations, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification required by Section V of this permit.

**10 CSR 10-6.065(6)(C)1.J Emissions Trading**

The permittee was granted an Acid Rain Permit (OP2008-002) on January 14, 2008 (see Attachment N). The Acid Rain Permit is effective until December 31, 2011. The permittee shall submit a renewal application no later than June 30, 2011.

The permittee applied for a CAIR Permit on July 2, 2007. The CAIR Permit has been incorporated into this Part 70 Operating Permit (see Attachment O). The CAIR Permit is effective as long as this Part 70 Operating Permit is effective. The permittee shall submit a renewal application for CAIR at the same time as they submit a renewal application for this Part 70 Operating Permit (six months prior to the expiration date).

### **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 10-6.020(2)(R)12 Responsible Official**

The application utilized in the preparation of this permit was signed by Mr. Bruce Bruzina, former Sioux Plant Manager. In a letter dated October 5, 2005, the Air Pollution Control Program was notified that the responsible officials for Ameren Missouri - Sioux Power Plant are:

Karl P. Blank – Sioux Plant Manager  
Dan F. Cole – President Ameren Services  
Mark C. Birk – Vice President Power Operations  
Michael L. Menne – Vice President Environmental Services

If any of these persons terminates employment, or is reassigned different duties such that a different person becomes the 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)(E)6 Reopening-Permit for Cause**

This permit may be reopened for cause if:

- 1) The Missouri Department of Natural Resources 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 C**

Method 9 Opacity Emissions Observations								
Company					Observer			
Location					Observer Certification Date			
Date					Emission Unit			
Time					Control Device			
Hour	Minute	Seconds				Steam Plume (check if applicable)		Comments
		0	15	30	45	Attached	Detached	
	0							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
SUMMARY OF AVERAGE OPACITY								
Set Number	Time				Opacity			
	Start	End		Sum	Average			

Readings ranged from \_\_\_\_\_ to \_\_\_\_\_ % opacity.

Was the emission unit in compliance at the time of evaluation?

YES   
  NO   
 \_\_\_\_\_  
 Signature of Observer









**ATTACHMENT H**  
**Auxiliary Boiler, Annual Capacity Factor Calculation**

	<b>Month and Year</b>	<b>Total Heat Input (mmBtus)</b>
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
	<b>12-Month Total<sup>1</sup></b>	

<sup>1</sup>The 12-month total heat input must equal 130,440 mmBtu or less.



**ATTACHMENT J**  
**10 CSR 10-5.030 Compliance Demonstration**

This attachment may be used to demonstrate that the listed emission units are in compliance with 10 CSR 10-5.030, *Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating*. Installation's Total Heat Input (Q) in mmBtu/hr:

<b>Emission Unit</b>	<b>MHDR (mmBtu/hr)</b>	<b>2008 EIQ Reference No.</b>
Boiler 1	4920	B-1
Boiler 2	4920	B-2
Boiler 3	162	B-3
<b>Total Q</b>	10,002	

Allowable PM emission limitation for existing indirect heating sources at an installation having a total capacity greater than 5,000 mmBtu/hr is 0.12 lb/mmBtu:

<b>Emission Unit</b>	<b>Fuel</b>	<b>Emission Factor</b>	<b>Uncontrolled Emission Factor (lb/mmBtu)</b>	<b>Control Device Efficiency</b>	<b>Controlled Emission Factor (lb/mmBtu)</b>	<b>Emission Limit (lb/mmBtu)</b>	<b>Is the Emission Unit in compliance?</b>
Boiler 1	Petroleum Coke	7.9 lbs/ton	0.28439	0.98	0.006	0.12	YES
Boiler 2	Petroleum Coke	7.9 lbs/ton	0.28439	0.98	0.006	0.12	YES

The 7.9 lb/ton emission factor was taken from FIRE. These units are not in compliance with this regulation unless their control devices are in use and they have the potential to emit more than 100 tons/yr PM uncontrolled, therefore CAM plans were created for these units (see Permit Condition (B-1 and B-2) - 004). The calculation was only performed for petroleum coke which produces the highest Potential to Emit for the boilers. The boilers also have the capacity to burn subbituminous coal, Fuel Oil No. 2, and/or TDF (tire derived fuel). These fuels sources have lower emission factors than petroleum coke, but the control devices are still required for compliance.







ATTACHMENT N  
Acid Rain Permit



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 - Sioux, **ORIS Code:** 2107  
**Project Number:** 2004-07-032, **Permit Number:** OP2008-002  
**Unit IDs:** 1 and 2  
**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.

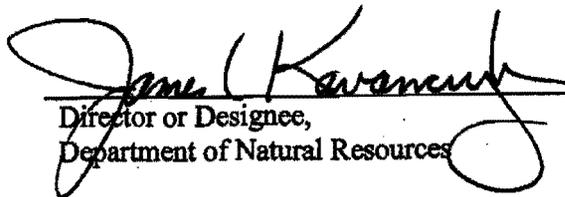
The number of allowances actually held by an affected source in a unit account may differ from the number allocated by the United States Environmental Protection Agency. Pursuant to 40 CFR 72.84, *Automatic permit amendment*, this does not necessitate a revision to any unit SO<sub>2</sub> allowance allocations identified in this permit.

Pursuant to 40 CFR Part 76, MDNR APCP approves the Phase II NO<sub>x</sub> Compliance Plan submitted for these units, effective for calendar years 2007 through 2011. In addition to complying with these NO<sub>x</sub> limits, these units shall comply with all other applicable requirements of 40 CFR Part 76, including the requirement to reapply for a NO<sub>x</sub> compliance plan and requirements covering excess emissions.

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.

JAN 14 2008

Date

  
Director or Designee,  
Department of Natural Resources



Plant Name (from Step 1) Sioux

**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) Sioux

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) Sioux
--------------------------------

**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<sub>x</sub> 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:

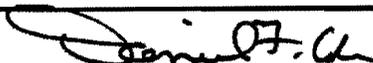
- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the 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**

**Read the  
certification  
statement,  
sign, and  
date**

**Certification**

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	Daniel F. Cole		
Signature		Date	6/30/14



Sioux
Plant Name (from Step 1)

NO<sub>x</sub> Compliance - Page 2  
Page 2 of 2

**STEP 2, cont'd.**

	ID#	ID#	ID#	ID#	ID#	ID#
	Type	Type	Type	Type	Type	Type
(m) EPA-approved common stack abatement method pursuant to 40 CFR 76.17 (a)(2)(i)(C), (a)(2)(ii)(B), or (b)(2)	<input type="checkbox"/>					
(n) AEL (Include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)	<input type="checkbox"/>					
(p) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing	<input type="checkbox"/>					
(p) Repowering extension plan approved or under review	<input type="checkbox"/>					

**STEP 3**  
Read the standard requirements and certification, enter the name of the designated representative, sign &

**Standard Requirements**

**General.** This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Permit.

**Special Provisions for Early Election Units**

**Nitrogen Oxides.** A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO<sub>x</sub> as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(ii).

**Liability.** The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.

**Termination.** An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO<sub>x</sub> for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO<sub>x</sub> for Phase II units with Group 1 boilers under 40 CFR 76.7.

**Certification**

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 Daniel F. Cole	
Signature	Date 6/20/04



United States  
Environmental Protection Agency  
Acid Rain Program

OMB No. 2060-0258

## Phase II NO<sub>x</sub> Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

Page 1

This submission is:  New  Revised

Page 1 of 3

### STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADE. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
Sioux	MO	1	0.86	0.86	30,000,000
Sioux	MO	2	0.86	0.86	30,000,000
Rush Island	MO	1	0.45	0.45	43,000,000
Rush Island	MO	2	0.45	0.45	43,000,000
Labadie	MO	1	0.45	0.45	43,000,000
Labadie	MO	2	0.45	0.45	43,000,000
Labadie	MO	3	0.45	0.45	43,000,000
Labadie	MO	4	0.45	0.45	43,000,000
Meramec	MO	1	0.45	0.45	10,000,000

### STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

0.52

$$\frac{\sum_{i=1}^n (R_{L_i} \times HI_i)}{\sum_{i=1}^n HI_i}$$

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

0.52

$$\frac{\sum_{i=1}^n [R_{1i} \times HI_i]}{\sum_{i=1}^n HI_i}$$

Where,

- R<sub>L<sub>i</sub></sub> = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;
- R<sub>1<sub>i</sub></sub> = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;
- HI<sub>i</sub> = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;
- n = Number of units in the averaging plan



Plant Name (from Step 1) **Sioux**

NO<sub>x</sub> Averaging - Page 2

**STEP 3**

Mark one of the two options and enter dates.

This plan is effective for calendar year 2005 through calendar year 2009 unless notification to terminate the plan is given.

Treat this plan as  identical plans, each effective for one calendar year for the following calendar years: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ unless notification to terminate one or more of these plans is given.

**STEP 4**

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

**Special Provisions**

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO<sub>x</sub> under the plan only if the following requirements are met:

- (i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
  - (a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
  - (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
  - (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
  - (iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

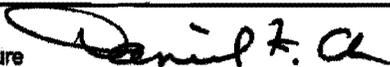
The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

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 <b>Daniel F. Cole</b>	
Signature 	Date <b>6/20/14</b>

**ATTACHMENT O**  
**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 NO<sub>x</sub> Trading Program*, 10 CSR 10-6.364 *Clean Air Interstate Rule Seasonal NO<sub>x</sub> Trading Program*, and 10 CSR 10-6.366, *Clean Air Interstate Rule SO<sub>x</sub> Trading Program*, the State of Missouri issues this CAIR Permit.

**Installation Name:** Ameren Missouri - Sioux, **ORIS Code:** 2107  
**Project Number:** 2007-07-040; **Permit Number:** OP2011-001A  
**Unit IDs:** Units 1 and 2  
**Expiration Date:** February 14, 2016

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 Units 1 and 2 at Ameren Missouri - Sioux, plant 183-0001.

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



Plant Name (from Step 1) **SIoux**

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<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> Ozone Season source (as applicable) and each CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> 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<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> Ozone Season source (as applicable) with the CAIR NO<sub>x</sub> emissions limitation, CAIR SO<sub>2</sub> emissions limitation, and CAIR NO<sub>x</sub> 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<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall hold, in the source's compliance account, CAIR NO<sub>x</sub> 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<sub>x</sub> units at the source, as determined in accordance with subpart HH of 40 CFR part 96.

(2) A CAIR NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> allowance was allocated.

(4) CAIR NO<sub>x</sub> allowances shall be held in, deducted from, or transferred into or among CAIR NO<sub>x</sub> Allowance Tracking System accounts in accordance with subparts FF, GG, and II of 40 CFR part 96.

(5) A CAIR NO<sub>x</sub> allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO<sub>x</sub> Annual Trading Program. No provision of the CAIR NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> allowance to or from a CAIR NO<sub>x</sub> source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR NO<sub>x</sub> unit.

**Sulfur dioxide emission requirements.**

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO<sub>2</sub> 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 SO<sub>2</sub> units at the source, as determined in accordance with subpart HHH of 40 CFR part 96.

(2) A CAIR SO<sub>2</sub> 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 SO<sub>2</sub> 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 SO<sub>2</sub> allowance was allocated.

(4) CAIR SO<sub>2</sub> allowances shall be held in, deducted from, or transferred into or among CAIR SO<sub>2</sub> Allowance Tracking System accounts in accordance with subparts FFF, GGG, and III of 40 CFR part 96.

(5) A CAIR SO<sub>2</sub> allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO<sub>2</sub> Trading Program. No provision of the CAIR SO<sub>2</sub> 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 SO<sub>2</sub> 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 SO<sub>2</sub> allowance to or from a CAIR SO<sub>2</sub> source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR SO<sub>2</sub> 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<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO<sub>x</sub> 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<sub>x</sub> Ozone Season units at the source, as determined in accordance with subpart HHHH of 40 CFR part 96.

(2) A CAIR NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> Ozone Season allowance was allocated.

(4) CAIR NO<sub>x</sub> Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO<sub>x</sub> Ozone Season Allowance Tracking System accounts in accordance with subparts FFFF, GGGG, and IIII of 40 CFR part 96.

(5) A CAIR NO<sub>x</sub> allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO<sub>x</sub> Ozone Season Trading Program. No provision of the CAIR NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> Ozone Season allowance to or from a CAIR NO<sub>x</sub> Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

Plant Name (from Step 1) **Sioux**

CAIR Permit Application  
Page 3

**STEP 3,  
continued**

**(d) Excess emissions requirements.**

If a CAIR NO<sub>x</sub> source emits nitrogen oxides during any control period in excess of the CAIR NO<sub>x</sub> emissions limitation, then:

(1) The owners and operators of the source and each CAIR NO<sub>x</sub> unit at the source shall surrender the CAIR NO<sub>x</sub> 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 SO<sub>2</sub> source emits sulfur dioxide during any control period in excess of the CAIR SO<sub>2</sub> emissions limitation, then:

(1) The owners and operators of the source and each CAIR SO<sub>2</sub> unit at the source shall surrender the CAIR SO<sub>2</sub> 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<sub>x</sub> Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NO<sub>x</sub> Ozone Season emissions limitation, then:

(1) The owners and operators of the source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall surrender the CAIR NO<sub>x</sub> 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<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> Ozone Season source (as applicable) and each CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> 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<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> 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<sub>x</sub> Annual Trading Program, CAIR SO<sub>2</sub> Trading Program, and CAIR NO<sub>x</sub> 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<sub>x</sub> Annual Trading Program, CAIR SO<sub>2</sub> Trading Program, and CAIR NO<sub>x</sub> Ozone Season Trading Program (as applicable) or to demonstrate compliance with the requirements of the CAIR NO<sub>x</sub> Annual Trading Program, CAIR SO<sub>2</sub> Trading Program, and CAIR NO<sub>x</sub> Ozone Season Trading Program (as applicable).

(2) The CAIR designated representative of a CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> Ozone Season source (as applicable) and each CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> Ozone Season unit (as applicable) at the source shall submit the reports required under the CAIR NO<sub>x</sub> Annual Trading Program, CAIR SO<sub>2</sub> Trading Program, and CAIR NO<sub>x</sub> 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<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> Ozone Season source (as applicable) and each NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> Ozone Season unit (as applicable) shall meet the requirements of the CAIR NO<sub>x</sub> Annual Trading Program, CAIR SO<sub>2</sub> Trading Program, and CAIR NO<sub>x</sub> Ozone Season Trading Program (as applicable).

(2) Any provision of the CAIR NO<sub>x</sub> Annual Trading Program, CAIR SO<sub>2</sub> Trading Program, and CAIR NO<sub>x</sub> Ozone Season Trading Program (as applicable) that applies to a CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> Ozone Season source (as applicable) or the CAIR designated representative of a CAIR NO<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> Ozone Season source (as applicable) shall also apply to the owners and operators of such source and of the CAIR NO<sub>x</sub> units, CAIR SO<sub>2</sub> units, and CAIR NO<sub>x</sub> Ozone Season units (as applicable) at the source.

(3) Any provision of the CAIR NO<sub>x</sub> Annual Trading Program, CAIR SO<sub>2</sub> Trading Program, and CAIR NO<sub>x</sub> Ozone Season Trading Program (as applicable) that applies to a CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> Ozone Season unit (as applicable) shall also apply to the owners and operators of such unit.

Plant Name (from Step 1) **SIoux**

CAIR Permit Application  
Page 4

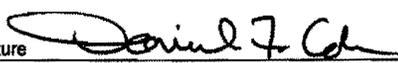
**STEP 3,  
continued**

**(g) Effect on Other Authorities.**

No provision of the CAIR NO<sub>x</sub> Annual Trading Program, CAIR SO<sub>2</sub> Trading Program, and CAIR NO<sub>x</sub> 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<sub>x</sub> source, CAIR SO<sub>2</sub> source, and CAIR NO<sub>x</sub> Ozone Season source (as applicable) or CAIR NO<sub>x</sub> unit, CAIR SO<sub>2</sub> unit, and CAIR NO<sub>x</sub> 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 <b>Daniel F. Cole</b>	
Signature 	Date <b>June 28, 2007</b>

## 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 August 11, 2005;
2. 2008 Emissions Inventory Questionnaire;
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 092006-003B, Issued June 9, 2008
5. Construction Permit 032004-012A, Issued October 23, 2007
6. Construction Permit 012001-024, Issued January 26, 2001
7. Construction Permit 1198-011, Issued October 23, 1998
8. Construction Permit 0695-016, Issued June 8, 1995
9. Missouri Air Pollution Control Program Response to Public Comments document
10. Air Pollution Control Program Response to EPA Comments document

### 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.

40 CFR Part 60 Subpart Y, *Standards of Performance for Coal Preparation and Processing Plants* is applicable to MH-1 Barge Unloading Clamshell Unloader, MH-2 Barge Unloading Material Transfer Hopper, MH-3 Barge Unloading Material Transfer – Conveyor (Enclosed), and MH-4 Barge Unloading Material Transfer – Conveyor (Enclosed) and has been applied within this permit.

### 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 10-5.510 *Control of Emissions of Nitrogen Oxides* is not applicable because the facility is subject to and in compliance with Phase II Acid Rain Requirements.

10 CSR 10-5.520 *Control of Volatile Organic Compound Emissions From Existing Major Sources* is not applicable because the facility must already comply with one or more rules under Title 10, Division 10, Chapter 5 of the Code of State Regulations (CSR) that regulates VOC emissions.

10 CSR 10-5.570 *Control of Sulfur Emissions From Stationary Boilers* is not applicable because the facility is subject to and in compliance with Phase II Acid Rain Requirements

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<sub>x</sub> Trading Program*.

10 CSR 10-6.360 *Control of NO<sub>x</sub> Emissions From Electric Generating Units and Non-Electric Generating Boilers* is applicable to this facility. The requirement of Sections (3) General Provisions, (4) Reporting and Record keeping, and (5) Test Methods, do not apply as the facility is subject to and implementing the requirements of 10 CSR 10-6.364. [10 CSR 10-6.360(1)(H)]

10 CSR 10-6.390 *Control of NO<sub>x</sub> Emissions From Large Stationary Internal Combustion Engines* is not applicable. The only engines above 1300 hp at the installation are those associated with Emergency Diesel Generator (B-5A), Emergency Generator (B-5B), and Emergency Generator (B-5C), but these are exempted within the rule because they meet the definition of:

Emergency standby engine—An internal combustion engine used only when normal electrical power or natural gas service is interrupted, or for the emergency pumping of water for either fire protection or flood relief. **An emergency standby engine may not be operated to supplement a primary power source when the load capacity or rating of the primary power source has been either reached or exceeded.** [10 CSR 10-6.390(2)(C)]

10 CSR 10-6.400 *Restriction of Emission of Particulate Matter From Industrial Processes* is not applicable. All of the PM emission sources at the installation are fugitive, indirect heating, or generators. The fugitive and indirect heating sources are listed exemptions within the regulation. The generators burn diesel which is excluded from process weight:

Process weight is defined as the total weight of all materials, including solid fuels, introduced into an emission unit, which may cause any emission of particulate matter, but excluding liquids and gases used solely as fuels and air introduced for purposes of combustion. [10 CSR 10-6.400(2)(A)]

### **Construction Permit Revisions**

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

Construction Permit 0579-014 and 0579-015, issued April 17, 1979, is no longer applicable due to the fact that the permitted equipment (622 mmBtu/hr oil fired combustion turbine and 600,000 gallon Fuel Oil No. 2 storage tank) is not at the facility.

Construction Permit 1198-011, issued October 23, 1998, Special Condition 2:

The installation has agreed to monitor their emissions using their SO<sub>2</sub> CEMS as it is easier for them. This change is allowed as actual emissions measured by a CEMS are more accurate than calculated emissions based upon the average sulfur content of the petroleum coke. The construction permit which has been in effect since October 23, 1998, only requires the sulfur dioxide emissions per million BTUs of actual heat input to be calculated on a daily average basis; therefore, Attachment F has been updated to calculate the daily average SO<sub>2</sub> emissions per actual petroleum coke heat input.

Construction Permit 012001-024, issued January 26, 2001, Special Condition 1:  
Compliance with this regulation is documented through records required by 10 CSR 10-6.170. If these records should document that fugitive emissions have entered the ambient air beyond the property boundaries the installation may be required to submit a compliance plan detailing the amount of and frequency of the wet suppression system usage to ensure proper reduction of fugitive emissions.

### **New Source Performance Standards (NSPS) Applicability**

40 CFR Part 60 Subparts D, *Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971*; Da, *Standards of Performance for Electric Utility Steam Generating Units for Which Construction Is Commenced After September 18, 1978*; Db, *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units*; and Dc, *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units* are not applicable to Boiler 1 (B-1) and Boiler 2 (B-2) because they were installed in 1967, and 1968, prior to the earliest compliance date listed within these rules of August 17, 1971.

40 CFR Part 60 Subparts Db, *Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units*; and Dc, *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units*: Subpart Db is applicable to Auxiliary Boiler 3 (B-3) and has been applied within this permit. Subpart Dc is not applicable because Auxiliary Boiler (B-3) has an MHDR of 162 mmBtu/hr which is not within the ten to 100 mmBtu/hr range regulated within the subpart.

40 CFR Part 60 Subpart E, *Standards of Performance for Incinerators* is not applicable to this facility. The facility has taken a voluntary limitation to combust less than 11 tons/day of municipal solid waste which is below the minimum threshold listed within the regulation of 50 tons/day municipal solid waste combusted.

40 CFR Part 60 Subparts K, *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978*; Ka, *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984*; and Kb, *Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984* are not applicable. All the tanks at this installation are less than 40,000 gallons in size.

40 CFR Part 60 Subpart Y, *Standards of Performance for Coal Preparation and Processing Plants* is applicable to MH-1 Barge Unloading Clamshell Unloader, MH-2 Barge Unloading Material Transfer Hopper, MH-3 Barge Unloading Material Transfer – Conveyor (Enclosed), and MH-4 Barge Unloading Material Transfer – Conveyor (Enclosed) and has been applied within this permit.

40 CFR Part 60 Subpart OOO, *Standards of Performance for Nonmetallic Mineral Processing Plants* is not applicable to this installation. When the permittee first applied to construct their limestone handling system it was going to be for limestone milling onsite. Construction Permit 092006-003B revised the

original design of the limestone handling system so that powdered limestone is delivered to the facility with no milling onsite. With this revision the project no longer falls under the applicability of this subpart:

§ 60.670(a)(2): The provisions of this subpart do not apply to the following operations: All facilities located in underground mines; plants without crushers or grinding mills above ground; and wet material processing operations (as defined in §60.671).

40 CFR Part 60 Subpart BBBB, *Emission Guidelines and Compliance Times for Small Municipal Waste Combustion Units Constructed On or Before August 30, 1999* is not applicable to the facility at this time. The facility has chosen to take a voluntary limitation to combust less than 11 tons/day of municipal solid waste so as to meet the requirements of one of the exemptions within the regulation. The exemption requires:

1. *Small municipal waste combustion units* that combust less than 11 tons per day. Units are exempt from the State plan if four requirements are met: [§60.1555(a)]
  - a) The municipal waste combustion unit is subject to a federally enforceable permit limiting the amount of municipal solid waste combusted to less than 11 tons per day. [§60.1555(a)(1)]
    - i) The permittee has taken a voluntary condition within this operating permit to combust less than 11 tons/day of municipal solid waste. The voluntary condition becomes federally enforceable upon issuance of this permit.
  - b) Notification is submitted by the owner or operator that the unit qualifies for the exemption. [§60.1555(a)(2)]
    - i) The permittee shall submit this notification to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than three months after the issuance date of this operating permit.
  - c) The owner or operator of the unit submits a copy of the federally enforceable permit. [§60.1555(a)(3)]
    - i) A copy of this operating permit is already on record with the Department. The permittee does not need to submit another copy.
  - d) The owner or operator of the unit keeps daily records of the amount of municipal solid waste combusted. [§60.1555(a)(4)]
    - i) These records are required by the voluntary condition taken by the permittee. The records are to be kept using Attachment I or an equivalent form generated by the permittee.

40 CFR Part 60 Subpart IIII, *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines* is applicable to the Emergency Fire Pump Engines (IC-1, IC-2, IC-5, and IC-6) and has been applied within this permit. This regulation is not applicable to Emergency Diesel Generators (B-5A, B-5B, and B-5C) as they were constructed in November of 2004, prior to July 11, 2005.

### **Maximum Achievable Control Technology (MACT) Applicability**

40 CFR Part 63 Subpart ZZZZ, *National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines* is applicable to the installation, but has not been applied within this permit.

1. Emergency Diesel Generators (B-5A, B-5B, and B-5C) were constructed in November 2004, and are classified as new emergency stationary RICE with a site rating greater than 500 brake HP located at a major source of HAP emissions per §63.6590(a)(2)(i). This classification meets the requirements of §63.6590(b)(1)(i); therefore, these engines do not have to meet the requirements of this subpart and of Subpart A of this part except for the initial notification requirements of §63.6645(f).  
[§63.6590(b)]
2. Emergency Fire Pump Engines (IC-1, IC-2, IC-5, and IC-6) as emergency stationary RICE with a site rating of less than or equal to 500 brake HP must meet the requirements of this part by meeting the requirements of 40 CFR Part 60, Subpart IIII per §63.6590(c).

40 CFR Part 63 Subpart DDDDD, *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters* has been vacated by court action.

### **National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability**

None.

### **Compliance Assurance Monitoring (CAM) Applicability**

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

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

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

CAM is applicable to Boiler 1 (B-1) and Boiler 2 (B-2). See PERMIT CONDITION (B-1 and B-2) - 003.

### **Other Regulatory Determinations**

The permittee may not burn any material other than sub-bituminous/bituminous coal, Fuel Oil No. 2, TDF, or petroleum coke in Boiler 1 (B-1) or Boiler 2 (B-2) other than those listed within Section V Reasonably Anticipated Operating Scenarios without written consent from the Missouri Department of Natural Resources' Air Pollution Control Program. The burning of county records is performed as a nonprofit public service and not for energy recovery practices.

If at anytime the permittee should violate the voluntary limitation of combusting less than 11 tons/day of municipal solid waste the permittee shall become subject to all the requirements of NSPS BBBB.

An Update Controlled Potential to Emit for the installation is shown below:

Pollutant	Potential to Emit <sup>1</sup> (tons/yr)
CO	1,582.92
CO <sub>2</sub> e	9,345,394.10
HAP	778.51
Hydrogen Chloride (7647-01-0)	659.08
Hydrogen Fluoride (7664-39-3)	114.93
NO <sub>x</sub>	31,549.71
PM <sub>10</sub>	1,370.19
PM <sub>2.5</sub>	169.87
SO <sub>x</sub>	71,166.88
VOC	258.08

<sup>1</sup>This PTE is based upon 8,760 annual hours of uncontrolled operation unless otherwise stated. The Boilers 1 and 2 (B-1 and B-2) were evaluated with a 98 percent ESP control efficiency for PM. The fugitive emission sources: Coal Handling (M-1 through M-5) and Barge Unloading (MH-1 through MH-4) were evaluated with a 50 percent *Best Management Practices* control efficiency for PM. The Emergency Diesel Generators (B-5A, B-5B, and B-5C) were evaluated at 500 hours of annual operation. Auxiliary Boiler (B-3) was evaluated at 876 hours of annual operation (10 percent annual capacity).

The installation is subject to the Greenhouse Gas Reporting Rule, and is considered a major source of greenhouse gases per §98.2(a)(3); however, EPA has not defined the GHG Reporting Rule as an applicable requirement under Part 70. Missouri regulations do not require the installation to report CO<sub>2</sub> emissions in their Missouri Emissions Inventory Questionnaire; therefore, the installation's CO<sub>2</sub> emissions were not included within this permit. The permittee is required to report the data directly to EPA. The public may obtain CO<sub>2</sub> emissions data for this installation by visiting EPA's Clean Air Markets website at: <http://camddataandmaps.epa.gov/gdm/index.cfm>.

#### **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:

1. The specific pollutant regulated by that rule is not emitted by the installation;
2. 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:

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Alana L. Rugen  
Environmental Engineer

CERTIFIED MAIL: 70093410000190189589  
RETURN RECEIPT REQUESTED

Mr. Michael L. Menne  
Vice President Environmental Services  
Ameren Services  
P.O. Box 66149, MC 602  
St. Louis, MO 63166-6149

Re: Ameren Missouri - Sioux, 183-0001  
Permit Number: OP2011-001A

Dear Mr. Menne:

Ameren – Sioux’s Part 70 Operating Permit OP2011-001 has been amended based upon a request by EPA to clarify the repeat stack testing requirements of Permit Condition (B-1 and B-2) – 003 Operational Limitation 3. Enclosed with this letter is your amended 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 Alana Rugen 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:ark

Enclosures

c: St. Louis Regional Office  
PAMS File: 2011-04-063