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: OP2016-040
Expiration Date: DEC 06 2021
Installation ID: 189-0010
Project Number: 2014-01-017

Installation Name and Address
Ameren Missouri Meramec Energy Center
8200 Fine Road
St. Louis, MO 63129
St. Louis County

Installation Description:
Ameren Missouri Meramec Energy Center is a power plant that converts energy from coal and other fuels to electrical energy. The installation has coal unloading, conveying, storage and pulverizing equipment to supply the boilers. Boilers 1 and 2 are dual fuel units with the ability to fire either coal or natural gas up to full load. These units are limited to firing natural gas in this permit. Boilers 3 and 4 are fueled primarily with coal but also burn natural gas for ignition, flame stabilization and supplemental load. Equipment for handling and disposing fly ash generated from the combustion of coal is on site. The facility also uses two combustion turbines to generate electricity. Both turbines burn No. 2 fuel oil but one turbine burns it only as a back-up while using natural gas as the primary fuel. There is an emergency generator and a black-start diesel engine on site as well. The installation is major for all criteria pollutants and is on the list of named-installations.

Prepared by
Jill Wade, P.E.
Operating Permit Unit

Director or Designee
Department of Natural Resources
DEC 06 2016
Effective Date
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I. Installation Equipment Listing

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.

<table>
<thead>
<tr>
<th>Emission Unit #</th>
<th>Description of Emission Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU0010</td>
<td>Boiler 1</td>
</tr>
<tr>
<td>EU002</td>
<td>Boiler 2</td>
</tr>
<tr>
<td>EU003</td>
<td>Boiler 3</td>
</tr>
<tr>
<td>EU004</td>
<td>Boiler 4</td>
</tr>
<tr>
<td>EU005</td>
<td>Emergency “Let Down” Diesel Generator</td>
</tr>
<tr>
<td>EU005a</td>
<td>Emergency CT2 Black Start Diesel Generator</td>
</tr>
<tr>
<td>EU005b</td>
<td>Diesel Fire Pump</td>
</tr>
<tr>
<td>EU006</td>
<td>Combustion Turbine 1</td>
</tr>
<tr>
<td>EU006A/B</td>
<td>Combustion Turbine 2</td>
</tr>
<tr>
<td>EU009</td>
<td>Coal Transfer and Conveying</td>
</tr>
<tr>
<td>EU009A</td>
<td>Coal Conveyors C10 &amp; C43</td>
</tr>
<tr>
<td>EU010</td>
<td>Coal Unloading – Rail</td>
</tr>
<tr>
<td>EU013</td>
<td>Parts Washer</td>
</tr>
<tr>
<td>EU014</td>
<td>1000- Gallon Above Ground Gasoline Storage Tank</td>
</tr>
<tr>
<td>EU015</td>
<td>Fly Ash Handling System</td>
</tr>
</tbody>
</table>

EMISSION UNITS WITHOUT SPECIFIC 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

<table>
<thead>
<tr>
<th>Description of Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-1 Coal Unloading, Barge (EU008)</td>
</tr>
<tr>
<td>M-2 Coal Storage Pile</td>
</tr>
<tr>
<td>TK-1 1,500,000 Gallon Combustion Turbine Fuel Oil Storage Tank</td>
</tr>
<tr>
<td>TK-2, 3 10,000 Gallon Transformer Oil Storage Tanks (2)</td>
</tr>
<tr>
<td>TK-4 120 Gallon Combustion Turbine Oil Reservoir</td>
</tr>
<tr>
<td>TK-5 3,000 Gallon Combustion Turbine Oil Reservoir</td>
</tr>
<tr>
<td>TK-6 4,500 Gallon Diesel Fuel Storage Tank</td>
</tr>
<tr>
<td>TK-7 6,000 Gallon Diesel Fuel Storage Tank</td>
</tr>
<tr>
<td>TK-8 1585 Gallon Diesel Fuel Storage Tank</td>
</tr>
<tr>
<td>TK-13 6,000 Gallon Kerosene Storage Tank</td>
</tr>
<tr>
<td>TK-14 3,000 Gallon Used Oil Storage Tank</td>
</tr>
<tr>
<td>TK-15-17 4,000 Gallon Oil Circuit Breaker Storage Tanks (3)</td>
</tr>
<tr>
<td>V-1-4 Lube Oil Reservoir Vapor Extractor Vents (4)</td>
</tr>
<tr>
<td>V-5-8 Generator Seal Oil Vapor Extractor Vents (4)</td>
</tr>
<tr>
<td>V-9, 10 Generator Seal Oil System Vent-Unit 3 (2)</td>
</tr>
<tr>
<td>V-11, 12 Generator Bearing Drain Vapor Extractor Vent-Unit 4 (2)</td>
</tr>
<tr>
<td>TK-18 330 Gallon Combustion Turbine Oil Reservoir</td>
</tr>
<tr>
<td>TK-19 300 Gallon Fuel Oil Storage Tank</td>
</tr>
<tr>
<td>TK-20 300 Gallon Gasoline Storage Tank</td>
</tr>
</tbody>
</table>
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. The plant wide conditions apply to all emission units at this installation. All emission units are listed in Section I under Emission Units with Limitations and Emission Units without Limitations.

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.

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

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU003</td>
<td>Boiler 3: 3179 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.02 MMCF NG/hr and 181 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47425); Constructed 1956</td>
</tr>
<tr>
<td>EU004</td>
<td>Boiler 4: 3782 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.6 MMCF NG/hr and 216 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47983-A); Constructed 1958</td>
</tr>
</tbody>
</table>

The permittee may periodically co-combust small quantities of non-hazardous wastes in the steam-generating units for energy recovery provided these practices do not violate any applicable regulatory requirements. These non-hazardous wastes include, but are not limited to, on specification used oil as defined in 40 CFR 279, oil sorbents used in oil spill cleanup, spent demineralization resin from the water purification system, used ethylene glycol added to the coal supply system as a freeze-conditioning agent, and cleaning wastes from the boiler and heat exchanger feedwater and condenser. In addition, approved paint sludge may be co-combusted as a recovered material. Non-hazardous wastes and approved paint sludge shall be burned in a boiler at or near full load resulting in negligible emissions.

**PERMIT CONDITION 2**
10 CSR 10-6.261 Control of Sulfur Dioxide Emissions

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU001</td>
<td>Boiler 1: 1566 MMBtu/hr Natural Gas Boiler; MHDR = 1.49 MMCF/hr; Manufactured by Combustion Engineering; Constructed 1949.</td>
</tr>
<tr>
<td>EU002</td>
<td>Boiler 2: 1566 MMBtu/hr Natural Gas Boiler; MHDR = 1.49 MMCF/hr; Manufactured by Combustion Engineering; Constructed 1949.</td>
</tr>
<tr>
<td>EU003</td>
<td>Boiler 3: 3179 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.02 MMCF NG/hr and 181 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47425); Constructed 1956</td>
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<td>EU004</td>
<td>Boiler 4: 3782 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.6 MMCF NG/hr and 216 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47983-A); Constructed 1958</td>
</tr>
<tr>
<td>EU006</td>
<td>Combustion Turbine 1: 891 MMBtu/hr Distillate Fuel oil; Manufactured by General Electric (Model MS7001); Constructed 1972</td>
</tr>
</tbody>
</table>
**Emission Limitation:**
No later than January 1, 2017, the permittee must limit emissions of sulfur dioxide to 7,371 pounds per hour, 24-hour block average.

**Operational Limitation:**
EU001 (Boiler 1) and (EU002 (Boiler 2) are limited to combusting natural gas at all times.

**Monitoring:**
1) The permittee must install, maintain and operate SO$_2$ Continuous Emission Monitoring System (CEMS) for Boilers 3 and 4.
2) The SO$_2$ CEMS must follow the requirements in 40 CFR 75 and/or 40 CFR 60, Appendices B and F.

**Recordkeeping:**
1) The permittee must maintain a list of modifications to the source’s operating procedures or other routine procedures instituted to prevent or minimize the occurrence of any excess SO$_2$ emissions.
2) The permittee must maintain a record of data, calculations, results, records, and reports from any SO$_2$ emissions performance test, SO$_2$ CEMS, fuel deliveries, and/or fuel sampling tests.
3) The permittee must maintain a record of any applicable SO$_2$ monitoring data, performance evaluations, calibrations checks, monitoring system and device performance tests, and any adjustments and maintenance performed on these systems or devices.
4) All records and reports must be retained on-site for a minimum of five (5) years and made available within five (5) business days upon written or electronic request by the director.
5) The permittee must furnish the director all data necessary to determine compliance status.

**Reporting:**
1) The permittee must report any excess emissions other than startup, shutdown and malfunction excess emissions already required to be reported under 10 CSR 10-6.050 to the director for each calendar quarter within thirty (30) days following the end of the quarter. In all cases, the notification must be a written report and must include, at a minimum the following:
   a) Name and location of source;
   b) Name and telephone number of person responsible for the source;
   c) Identity and description of the equipment involved;
   d) Time and duration of the period of excess emissions;
   e) Type of activity;
f) Estimate of the magnitude of the excess emissions expressed in the units of the applicable 
emission control regulation and the operating data and calculations used in estimating the 
magnitude;
g) Measures taken to mitigate the extent and duration of the excess emissions; and
h) Measures taken to remedy the situation which cause the excess emissions and the 
measures taken or planned to prevent the recurrence of these situations.

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

PERMIT CONDITION 3
10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds

<table>
<thead>
<tr>
<th>Emission Unit</th>
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<tbody>
<tr>
<td>EU003</td>
<td>Boiler 3: 3179 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.02 MMCF NG/hr and 181 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47425); Constructed 1956</td>
</tr>
<tr>
<td>EU004</td>
<td>Boiler 4: 3782 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.6 MMCF NG/hr and 216 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47983-A); Constructed 1958</td>
</tr>
</tbody>
</table>

10 CSR 10-6.260 was rescinded from the Missouri Code of State Regulations Rules on November 30, 2015 and replaced by 10 CSR 10-6.261; however the provisions of 10 CSR 10-6.260 currently remain in the State Implementation Plan and are federally enforceable. The provisions of 10 CSR 10-6.260 will expire and the provisions of 10 CSR 10-6.261 will become federally enforceable once 10 CSR 10-6.261 is incorporated into the federally-approved SIP as a final EPA action. Permit Condition 3 will expire and the limitations thereof will no longer apply to the installation once 10 CSR 10-6.261 is incorporated into the SIP. No action on the part of the permittee is required to remove Permit Condition 3 from the operating permit.

Emission Limitations:
The permittee shall not cause or permit the emission of sulfur dioxide (SO₂) to the atmosphere from Boiler 3 or Boiler 4 (EU003 or EU004) in an amount greater than 2.3 pounds of SO₂ per MMBtu of actual heat input averaged on any consecutive three hour time period. The permittee may emit SO₂ at a rate not to exceed the allowable emission rate by more than 20 percent for not more than three days in any one month.

Monitoring:
1) The permittee shall install, maintain, and operate a continuous emission monitoring system for measuring the SO₂ emission rate (lb SO₂/MBtu) in accordance with 40 CFR Part 75 and 40 CFR Part 60, Appendix A, Method 19.
2) The permittee shall comply with the quality assurance requirements in 40 CFR Part 75, Appendix B.
3) The permittee shall 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, in 40 CFR Part 60, Appendix A, using Reference Method 6c for SO₂, or equivalent EPA approved method.
4) The permittee shall review 40 CFR Part 75 and 40 CFR Part 60 for a complete list of all testing and quality assurance measures required.

**Recordkeeping:**
1) The permittee shall maintain hourly records of the SO₂ emission rate (lb SO₂/MMBtu) in accordance with 40 CFR Part 75 and 40 CFR Part 60, Appendix A, Method 19.
2) The permittee shall retain records for the previous five year period and make them available to Missouri Department of Natural Resources Personnel upon request.

**Reporting:**
1) The permittee shall report to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after exceeding any of the emissions limitations.
2) The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

<table>
<thead>
<tr>
<th>Emission Unit</th>
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<tbody>
<tr>
<td>EU006</td>
<td>Combustion Turbine 1: 891 MMBtu/hr Distillate Fuel oil; Manufactured by General Electric (Model MS7001); Constructed 1972</td>
</tr>
<tr>
<td>EU006A/B</td>
<td>Combustion Turbine 2: 927 MMBtu/hr distillate Fuel Oil and Natural Gas fired; Manufactured by Turbo Power &amp; Marine – a subsidiary of Pratt &amp; Whitney (Model FT4-C1D); Constructed 1974</td>
</tr>
<tr>
<td>EU005</td>
<td>Emergency Diesel Generator: 15.3 MMBtu/hr Distillate fuel oil fired; Manufactured by Cummins (Model QSK60-G6); Constructed 12/2004</td>
</tr>
<tr>
<td>EU005a</td>
<td>Emergency CT2 Black Start Diesel Generator: 4.82 MMBtu/hr Distillate Fuel Oil fired; Manufactured by Caterpillar (Model C15)</td>
</tr>
<tr>
<td>EU005b</td>
<td>Diesel Fire Pump; 290 HP; Manufactured 5/14/2001</td>
</tr>
</tbody>
</table>

10 CSR 10-6.260 was rescinded from the Missouri Code of State Regulations Rules on November 30, 2015 and replaced by 10 CSR 10-6.261; however the provisions of 10 CSR 10-6.260 currently remain in the State Implementation Plan and are federally enforceable. The provisions of 10 CSR 10-6.260 will expire and the provisions of 10 CSR 10-6.261 will become federally enforceable once 10 CSR 10-6.261 is incorporated into the federally-approved SIP as a final EPA action. Permit Condition 3 will expire and the limitations thereof will no longer apply to the installation once 10 CSR 10-6.261 is incorporated into the SIP. No action on the part of the permittee is required to remove Permit Condition 4 from the operating permit.

**Emission Limitations:**
The permittee shall not cause or permit the emission of gases into the atmosphere containing more than five hundred parts per million by volume (500 ppmv) of sulfur dioxide or more than thirty-five milligrams per cubic meter (35 mg/cubic meter) of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three (3)-hour time period.
**Monitoring:**
1) Maintain records of the fuel type used verifying sulfur content less than 0.5 percent by weight.
2) The fuel oils known to be less than 0.5 percent by weight sulfur per Chapter 414 RSMo, Section 414.032, ASTM D396 – Table 1 and ASTM D975 – Table 1, are fuel oil no. 1 and no. 2 and diesel fuel oil Grade Low Sulfur No. 1-D, Grade Low Sulfur No. 2-D.
3) Purchase receipts, analyzed samples, or certifications that verify the fuel type as a grade level with sulfur content less than 0.5 percent by weight will be acceptable. If this cannot be accomplished then compliance with the emission limitations shall be determined by source testing as specified in 10 CSR 10-6.030(6).
4) Other methods approved by the Director in advance may be used.

**Recordkeeping:**
1) The permittee shall maintain hourly records of the SO₂ emission rate in accordance with 40 CFR Part 75 and 40 CFR part 60, Appendix A, Method 19.
2) The permittee shall maintain records for five years and make them available to Missouri Department of Natural Resources personnel upon request.

**Reporting:**
1) The permittee shall report to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after exceeding any of the emissions limitations of this permit condition.
2) The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

<table>
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<tr>
<th>Emission Unit</th>
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</thead>
<tbody>
<tr>
<td>EU001</td>
<td>Boiler 1: 1566 MMBtu/hr Natural Gas Boiler; MHDR = 1.49 MMCF/hr; Manufactured by Combustion Engineering; Constructed 1949.</td>
</tr>
<tr>
<td>EU002</td>
<td>Boiler 2: 1566 MMBtu/hr Natural Gas Boiler; MHDR = 1.49 MMCF/hr; Manufactured by Combustion Engineering; Constructed 1949.</td>
</tr>
<tr>
<td>EU003</td>
<td>Boiler 3: 3179 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.02 MMCF NG/hr and 181 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47425); Constructed 1956</td>
</tr>
<tr>
<td>EU004</td>
<td>Boiler 4: 3782 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.6 MMCF NG/hr and 216 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47983-A); Constructed 1958</td>
</tr>
</tbody>
</table>

**Emission Limitation:**
The permittee shall obtain an Acid Rain Source Permit for Boilers 1 through 4 (EU001-EU004) pursuant to Title IV of the Clean Air Act.
A Phase II permit (Missouri Department of Natural Resources project 2015-11-006, ORIS Code 2104) is being issued to the permittee in conjunction with this Title V permit. (See Attachment E)

**Monitoring/Recordkeeping:**
The permittee shall retain the most current Acid Rain permit issued to this installation on-site and shall immediately make such permit available to any Department of Natural Resources’ personnel upon request.

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

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### PERMIT CONDITION 6

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU001</td>
<td>Boiler 1: 1566 MMBtu/hr Natural Gas Boiler; MHDR = 1.49 MMCF/hr; Manufactured by Combustion Engineering; Constructed 1949.</td>
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</tr>
<tr>
<td>EU006</td>
<td>Combustion Turbine 1: 891 MMbtu/hr distillate Fuel Oil fired; Manufactured by General Electric (Model MS7001); Constructed 1972</td>
</tr>
<tr>
<td>EU006A/B</td>
<td>Combustion Turbine 2: 927 MMBtu/hr distillate Fuel Oil and Natural Gas fired; Manufactured by Turbo Power &amp; Marine – a subsidiary of Pratt &amp; Whitney (Model FT4-C1D); Constructed 1974</td>
</tr>
</tbody>
</table>

*The Clean Air Interstate Rule (CAIR) has recently been replaced by the Cross State Air Pollution Rule (CSAPR), however a CAIR Permit is being issued to this facility because the CAIR regulations have not been removed from the Missouri State Implementation Plan (SIP) at this time. Ameren Missouri Meramec Energy Center is not required to hold CAIR allowances and therefore no violation of CAIR is possible. Once the CAIR regulations are removed from the SIP and replaced with CSAPR, Permit Condition 6 will expire and the limitation thereof will no longer apply to the installation. No action on the part of the permittee is required to remove Permit Condition 6 from the operating permit.*

**Emission Limitation:**
The permittee shall obtain a CAIR Source Permit for Boilers 1 through 4 and the Combustion Turbines (EU001 through EU004, EU006 and EU006A/B).
A CAIR Permit (Missouri Department of Natural Resources project, ORIS Code 2104) is being issued to the permittee in conjunction with this Title V permit. (See Attachment F)

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

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

### PERMIT CONDITION 7

40 CFR Parts 70 and 97 Cross State Air Pollution Rule
10 CSR 10-6.372 Cross-State Air Pollution Rule Annual NOx Trading Allowance Allocations
10 CSR 10-6.374 Cross-State Air Pollution Rule Ozone Season NOx Trading Allowance Allocations
10 CSR 10-6.376 Cross-State Air Pollution Rule Annual SO2 Trading Allowance Allocations

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU001</td>
<td>Boiler 1: 1566 MMBtu/hr Natural Gas Boiler; MHDR = 1.49 MMCF/hr; Manufactured by Combustion Engineering; Constructed 1949.</td>
</tr>
<tr>
<td>EU002</td>
<td>Boiler 2: 1566 MMBtu/hr Natural Gas Boiler; MHDR = 1.49 MMCF/hr; Manufactured by Combustion Engineering; Constructed 1949.</td>
</tr>
<tr>
<td>EU003</td>
<td>Boiler 3: 3179 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.02 MMCF NG/hr and 181 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47425); Constructed 1956</td>
</tr>
<tr>
<td>EU004</td>
<td>Boiler 4: 3782 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.6 MMCF NG/hr and 216 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47983-A); Constructed 1958</td>
</tr>
<tr>
<td>EU006</td>
<td>Combustion Turbine 1: 891 MMbut/hr distillate Fuel Oil fired; Manufactured by General Electric (Model MS7001); Constructed 1972</td>
</tr>
<tr>
<td>EU006A/B</td>
<td>Combustion Turbine 2: 927 MMBtu/hr distillate Fuel Oil and Natural Gas fired; Manufactured by Turbo Power &amp; Marine – a subsidiary of Pratt &amp; Whitney (Model FT4-C1D); Constructed 1974</td>
</tr>
</tbody>
</table>

The TR subject unit(s), and the unit-specific monitoring provisions, at this source are identified in the following table(s). These unit(s) are subject to the requirements for the TR NOX Annual Trading Program, TR NOX Ozone Season Trading Program, and TR SO2 Group 1 Trading Program.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Continuous emission monitoring system or systems</th>
<th>Excepted monitoring system requirements for gas- and</th>
<th>Excepted monitoring system requirements for gas- and</th>
<th>Low Mass Emissions excepted monitoring (LME)</th>
<th>EPA-approved alternative monitoring system requirements</th>
</tr>
</thead>
</table>

The TR subject unit(s), and the unit-specific monitoring provisions, at this source are identified in the following table(s). These unit(s) are subject to the requirements for the TR NOX Annual Trading Program, TR NOX Ozone Season Trading Program, and TR SO2 Group 1 Trading Program.
<table>
<thead>
<tr>
<th></th>
<th>(CEMS) requirements pursuant to 40 CFR part 75, subpart B (for SO₂ monitoring) and 40 CFR part 75, subpart H (for NOₓ monitoring)</th>
<th>oil-fired units pursuant to 40 CFR part 75, appendix D</th>
<th>oil-fired peaking units pursuant to 40 CFR part 75, appendix E</th>
<th>requirements for gas- and oil-fired units pursuant to 40 CFR 75.19</th>
<th>pursuant to 40 CFR part 75, subpart E</th>
</tr>
</thead>
<tbody>
<tr>
<td>SO₂</td>
<td>EU001, EU002, EU003, EU004</td>
<td>-----</td>
<td>-----</td>
<td>EU006, EU006A/B</td>
<td>-----</td>
</tr>
<tr>
<td>NOₓ</td>
<td>EU001, EU002, EU003, EU004</td>
<td>-----</td>
<td>-----</td>
<td>EU006, EU006A/B</td>
<td>-----</td>
</tr>
<tr>
<td>Heat Input</td>
<td>EU001, EU002, EU003, EU004</td>
<td>-----</td>
<td>-----</td>
<td>EU006, EU006A/B</td>
<td>-----</td>
</tr>
</tbody>
</table>

1) The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.430 through 97.435 (TR NOₓ Annual Trading Program), 97.530 through 97.535 (TR NOₓ Ozone Season Trading Program), and 97.630 through 97.635 (TR SO₂ Group 1 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable TR trading programs.

2) The permittee must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA’s website at http://www.epa.gov/airmarkets/emissions/monitoringplans.html.

3) The permittee that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR part 75, subpart E and 40 CFR 75.66 and 97.435 (TR NOₓ Annual Trading Program), 97.535 (TR NOₓ Ozone Season Trading Program), and/or 97.635 (TR SO₂ Group 1 Trading Program). The Administrator’s response approving or disapproving any petition for an alternative monitoring system is available on the EPA’s website at http://www.epa.gov/airmarkets/emissions/petitions.html.

4) The permittee that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.430 through 97.434 (TR NOₓ Annual Trading Program), 97.530 through 97.534 (TR NOₓ Ozone Season Trading Program), and/or 97.630 through 97.634 (TR SO₂ Group 1 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.435 (TR NOₓ Annual Trading Program), 97.535 (TR NOₓ Ozone Season Trading Program), and/or 97.635 (TR SO₂ Group 1 Trading Program). The Administrator’s response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting
5) The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.430 through 97.434 (TR NOX Annual Trading Program), 97.530 through 97.534 (TR NOX Ozone Season Trading Program), and 97.630 through 97.634 (TR SO2 Group 1 Trading Program), and therefore minor permit modification procedures, in accordance with 40 CFR 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add or change this unit's monitoring system description.

**TR NOX Annual Trading Program requirements (40 CFR 97.406)**

(a) **Designated representative requirements.**

The permittee shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.413 through 97.418.

(b) **Emissions monitoring, reporting, and recordkeeping requirements.**

1) The permittee, and the designated representative, of each TR NOX Annual source and each TR NOX Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of TR NOX Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the TR NOX Annual emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) **NOX emissions requirements.**

1) **TR NOX Annual emissions limitation.**

   (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NOX Annual source and each TR NOX Annual unit at the source shall hold, in the source's compliance account, TR NOX Annual allowances available for deduction for such control period under 40 CFR 97.424(a) in an amount not less than the tons of total NOX emissions for such control period from all TR NOX Annual units at the source.

   (ii). If total NOX emissions during a control period in a given year from the TR NOX Annual units at a TR NOX Annual source are in excess of the TR NOX Annual emissions limitation set forth in paragraph (c)(1)(i) above, then:
(A). The permittee of the source and each TR NOX Annual unit at the source shall hold the TR NOX Annual allowances required for deduction under 40 CFR 97.424(d); and

(B). The permittee of the source and each TR NOX Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

(2) TR NOX Annual assurance provisions.

(i). If total NOX emissions during a control period in a given year from all TR NOX Annual units at TR NOX Annual sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative’s share of such NOX emissions during such control period exceeds the common designated representative’s assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NOX Annual allowances available for deduction for such control period under 40 CFR 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.425(b), of multiplying— (A) The quotient of the amount by which the common designated representative’s share of such NOX emissions exceeds the common designated representative’s assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative’s share of such NOX emissions exceeds the respective common designated representative’s assurance level; and (B) The amount by which total NOX emissions from all TR NOX Annual units at TR NOX Annual sources in the state during such control period exceed the state assurance level.

(ii). The permittee shall hold the TR NOX Annual allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NOX emissions from all TR NOX Annual units at TR NOX Annual sources in the State during a control period in a given year exceed the state assurance level if such total NOX emissions exceed the sum, for such control period, of the state NOX Annual trading budget under 40 CFR 97.410(a) and the state’s variability limit under 40 CFR 97.410(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart AAAAA or of the Clean Air Act if total NOX emissions from all TR NOX Annual units at TR NOX Annual sources in the State during a control period exceed the state assurance level or if a common designated representative’s share of total NOX emissions from the TR NOX Annual units at TR NOX Annual sources in the state during a control period exceeds the common designated representative’s assurance level.

(v). To the extent the permittee fails to hold TR NOX Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
(A). The permittee shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each TR NOX Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

(3) Compliance periods.
   (i). A TR NOX Annual unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.
   (ii). A TR NOX Annual unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.
   (i). A TR NOX Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NOX Annual allowance that was allocated for such control period or a control period in a prior year.
   (ii). A TR NOX Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NOX Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR NOX Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart AAAAA.

(6) Limited authorization. A TR NOX Annual allowance is a limited authorization to emit one ton of NOX during the control period in one year. Such authorization is limited in its use and duration as follows:
   (i). Such authorization shall only be used in accordance with the TR NOX Annual Trading Program; and
   (ii). Notwithstanding any other provision of 40 CFR part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR NOX Annual allowance does not constitute a property right.

(d) Title V permit revision requirements.
   (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NOX Annual allowances in accordance with 40 CFR part 97, subpart AAAAA.
   (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an
alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.
(1) Unless otherwise provided, the owners and operators of each TR NOX Annual source and each TR NOX Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) 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 Administrator.

(i). The certificate of representation under 40 CFR 97.416 for the designated representative for the source and each TR NOX Annual unit 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 certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.416 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpartAAAA.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NOX Annual Trading Program.

(2) The designated representative of a TR NOX Annual source and each TR NOX Annual unit at the source shall make all submissions required under the TR NOX Annual Trading Program, except as provided in 40 CFR 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.
(1) Any provision of the TR NOX Annual Trading Program that applies to a TR NOX Annual source or the designated representative of a TR NOX Annual source shall also apply to the owners and operators of such source and of the TR NOX Annual units at the source.

(2) Any provision of the TR NOX Annual Trading Program that applies to a TR NOX Annual unit or the designated representative of a TR NOX Annual unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.
No provision of the TR NOX Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NOX Annual source or TR NOX Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

TR NOX Ozone Season Trading Program Requirements (40 CFR 97.506)
Designated representative requirements.
The permittee shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.513 through 97.518.

(a) Emissions monitoring, reporting, and recordkeeping requirements.
(1) The permittee, and the designated representative, of each TR NOX Ozone Season source and each TR NOX Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.530 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.531 (initial monitoring system certification and recertification procedures), 97.532 (monitoring system out-of-control periods), 97.533 (notifications concerning monitoring), 97.534 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.535 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).

(2) The emissions data determined in accordance with 40 CFR 97.530 through 97.535 shall be used to calculate allocations of TR NOX Ozone Season allowances under 40 CFR 97.511(a)(2) and (b) and 97.512 and to determine compliance with the TR NOX Ozone Season emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.530 through 97.535 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(b) NOX emissions requirements.

(1) TR NOX Ozone Season emissions limitation.

(i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NOX Ozone Season source and each TR NOX Ozone Season unit at the source shall hold, in the source's compliance account, TR NOX Ozone Season allowances available for deduction for such control period under 40 CFR 97.524(a) in an amount not less than the tons of total NOX emissions for such control period from all TR NOX Ozone Season units at the source.

(ii). If total NOX emissions during a control period in a given year from a TR NOX Ozone Season unit at a TR NOX Ozone Season source are in excess of the TR NOX Ozone Season emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The permittee of the source and each TR NOX Ozone Season unit at the source shall hold the TR NOX Ozone Season allowances required for deduction under 40 CFR 97.524(d); and

(B). The permittee of the source and each TR NOX Ozone Season unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBBB and the Clean Air Act.

(2) TR NOX Ozone Season assurance provisions.

(i). If total NOX emissions during a control period in a given year from all TR NOX Ozone Season units at TR NOX Ozone Season sources in the state exceed the state assurance level, then The permittee of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative’s share of such NOX emissions during such control period exceeds the common designated representative’s assurance level for the state and such control period, shall hold (in
the assurance account established for the owners and operators of such group) TR NOX Ozone Season allowances available for deduction for such control period under 40 CFR 97.525(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.525(b), of multiplying—

(A). The quotient of the amount by which the common designated representative’s share of such NOX emissions exceeds the common designated representative’s assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative’s share of such NOX emissions exceeds the respective common designated representative’s assurance level; and

(B). The amount by which total NOX emissions from all TR NOX Ozone Season units at TR NOX Ozone Season sources in the state for such control period exceed the state assurance level.

(ii). The permittee shall hold the TR NOX Ozone Season allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total NOX emissions from all TR NOX Ozone Season units at TR NOX Ozone Season sources in the state during a control period in a given year exceed the state assurance level if such total NOX emissions exceed the sum, for such control period, of the State NOX Ozone Season trading budget under 40 CFR 97.510(a) and the state’s variability limit under 40 CFR 97.510(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart BBBBB or of the Clean Air Act if total NOX emissions from all TR NOX Ozone Season units at TR NOX Ozone Season sources in the state during a control period exceed the state assurance level or if a common designated representative’s share of total NOX emissions from the TR NOX Ozone Season units at TR NOX Ozone Season sources in the state during a control period exceeds the common designated representative’s assurance level.

(v). To the extent the permittee fails to hold TR NOX Ozone Season allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,

(A). The permittee shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each TR NOX Ozone Season allowance that the permittee fails to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBB and the Clean Air Act.

(3) Compliance periods.

(i). A TR NOX Ozone Season unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of May 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.

(ii). A TR NOX Ozone Season unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the
(4) Vintage of allowances held for compliance.
   (i). A TR NOX Ozone Season allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NOX Ozone Season allowance that was allocated for such control period or a control period in a prior year.
   (ii). A TR NOX Ozone Season allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NOX Ozone Season allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR NOX Ozone Season allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart BBBBB.

(6) Limited authorization. A TR NOX Ozone Season allowance is a limited authorization to emit one ton of NOX during the control period in one year. Such authorization is limited in its use and duration as follows:
   (i). Such authorization shall only be used in accordance with the TR NOX Ozone Season Trading Program; and
   (ii). Notwithstanding any other provision of 40 CFR part 97, subpart BBBBB, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR NOX Ozone Season allowance does not constitute a property right.

(c) Title V permit revision requirements.
   (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NOX Ozone Season allowances in accordance with 40 CFR part 97, subpart BBBBB.

   (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.530 through 97.535, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.506(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(d) Additional recordkeeping and reporting requirements.
   (1) Unless otherwise provided, the permittee of each TR NOX Ozone Season source and each TR NOX Ozone Season unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) 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 Administrator.
      (i). The certificate of representation under 40 CFR 97.516 for the designated representative for the source and each TR NOX Ozone Season unit 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 certificate of representation and
documents are superseded because of the submission of a new certificate of
representation under 40 CFR 97.516 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart
BBBBB.

(iii). Copies of all reports, compliance certifications, and other submissions and all
records made or required under, or to demonstrate compliance with the
requirements of, the TR NOX Ozone Season Trading Program.

(2) The designated representative of a TR NOX Ozone Season source and each TR NOX
Ozone Season unit at the source shall make all submissions required under the TR NOX
Ozone Season Trading Program, except as provided in 40 CFR 97.518. This requirement
does not change, create an exemption from, or otherwise affect the responsible official
submission requirements under a title V operating permit program in 40 CFR parts 70
and 71.

(e) Liability.

(1) Any provision of the TR NOX Ozone Season Trading Program that applies to a TR NOX
Ozone Season source or the designated representative of a TR NOX Ozone Season source
shall also apply to the owners and operators of such source and of the TR NOX Ozone
Season units at the source.

(2) Any provision of the TR NOX Ozone Season Trading Program that applies to a TR NOX
Ozone Season unit or the designated representative of a TR NOX Ozone Season unit shall
also apply to the owners and operators of such unit.

(f) Effect on other authorities.

No provision of the TR NOX Ozone Season Trading Program or exemption under 40 CFR
97.505 shall be construed as exempting or excluding the permittee, and the designated
representative, of a TR NOX Ozone Season source or TR NOX Ozone Season unit from
compliance with any other provision of the applicable, approved state implementation plan, a
federally enforceable permit, or the Clean Air Act.

TR SO2 Group 1 Trading Program requirements (40 CFR 97.606)

(a) Designated representative requirements.

The permittee shall comply with the requirement to have a designated representative, and
may have an alternate designated representative, in accordance with 40 CFR 97.613 through
97.618.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

(1) The permittee, and the designated representative, of each TR SO2 Group 1 source and
each TR SO2 Group 1 unit at the source shall comply with the monitoring, reporting, and
recordkeeping requirements of 40 CFR 97.630 (general requirements, including
installation, certification, and data accounting, compliance deadlines, reporting data,
prohibitions, and long-term cold storage), 97.631 (initial monitoring system certification
and recertification procedures), 97.632 (monitoring system out-of-control periods),
97.633 (notifications concerning monitoring), 97.634 (recordkeeping and reporting,
including monitoring plans, certification applications, quarterly reports, and compliance
certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or
reporting requirements).
(2) The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of TR SO\(_2\) Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO\(_2\) Group 1 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO\(_2\) emissions requirements.

(1) TR SO\(_2\) Group 1 emissions limitation.

   (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO\(_2\) Group 1 source and each TR SO\(_2\) Group 1 unit at the source shall hold, in the source's compliance account, TR SO\(_2\) Group 1 allowances available for deduction for such control period under 40 CFR 97.624(a) in an amount not less than the tons of total SO\(_2\) emissions for such control period from all TR SO\(_2\) Group 1 units at the source.

   (ii). If total SO\(_2\) emissions during a control period in a given year from the TR SO\(_2\) Group 1 units at a TR SO\(_2\) Group 1 source are in excess of the TR SO\(_2\) Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:

      (A). The permittee of the source and each TR SO\(_2\) Group 1 unit at the source shall hold the TR SO\(_2\) Group 1 allowances required for deduction under 40 CFR 97.624(d); and

      (B). The permittee of the source and each TR SO\(_2\) Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(2) TR SO\(_2\) Group 1 assurance provisions.

   (i). If total SO\(_2\) emissions during a control period in a given year from all TR SO\(_2\) Group 1 units at TR SO\(_2\) Group 1 sources in the state exceed the state assurance level, then the permittee of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative’s share of such SO\(_2\) emissions during such control period exceeds the common designated representative’s assurance level for the state and such control period, shall hold (in the assurance account established for the permittee of such group) TR SO\(_2\) Group 1 allowances available for deduction for such control period under 40 CFR 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.625(b), of multiplying—

      (A). The quotient of the amount by which the common designated representative’s share of such SO\(_2\) emissions exceeds the common designated representative’s assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative’s share
of such SO\(_2\) emissions exceeds the respective common designated representative’s assurance level; and

(B). The amount by which total SO\(_2\) emissions from all TR SO\(_2\) Group 1 units at TR SO\(_2\) Group 1 sources in the state for such control period exceed the state assurance level.

(ii). The permittee shall hold the TR SO\(_2\) Group 1 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.

(iii). Total SO\(_2\) emissions from all TR SO\(_2\) Group 1 units at TR SO\(_2\) Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO\(_2\) emissions exceed the sum, for such control period, of the state SO\(_2\) Group 1 trading budget under 40 CFR 97.610(a) and the state’s variability limit under 40 CFR 97.610(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart CCCCC or of the Clean Air Act if total SO\(_2\) emissions from all TR SO\(_2\) Group 1 units at TR SO\(_2\) Group 1 sources in the state during a control period exceed the state assurance level or if a common designated representative’s share of total SO\(_2\) emissions from the TR SO\(_2\) Group 1 units at TR SO\(_2\) Group 1 sources in the during a control period exceeds the common designated representative’s assurance level.

(v). To the extent the permittee fails to hold TR SO\(_2\) Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above, (A). The permittee shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and

(B). Each TR SO\(_2\) Group 1 allowance that the permittee fails to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(3) Compliance periods.

(i). A TR SO\(_2\) Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(ii). A TR SO\(_2\) Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

(i). A TR SO\(_2\) Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR SO\(_2\) Group 1 allowance that was allocated for such control period or a control period in a prior year.

(ii). A TR SO\(_2\) Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR SO\(_2\) Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
(5) Allowance Management System requirements. Each TR SO2 Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart CCCCC.

(6) Limited authorization. A TR SO2 Group 1 allowance is a limited authorization to emit one ton of SO2 during the control period in one year. Such authorization is limited in its use and duration as follows:

(i). Such authorization shall only be used in accordance with the TR SO2 Group 1 Trading Program; and

(ii). Notwithstanding any other provision of 40 CFR part 97, subpart CCCCC, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR SO2 Group 1 allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR SO2 Group 1 allowances in accordance with 40 CFR part 97, subpart CCCCC.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.630 through 97.635, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR part 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E), Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the permittee of each TR SO2 Group 1 source and each TR SO2 Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) 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 Administrator.

(i). The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each TR SO2 Group 1 unit 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 certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.616 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart CCCCC.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR SO2 Group 1 Trading Program.

(2) The designated representative of a TR SO2 Group 1 source and each TR SO2 Group 1 unit at the source shall make all submissions required under the TR SO2 Group 1 Trading Program, except as provided in 40 CFR 97.618. This requirement does not change, create
an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.
(1) Any provision of the TR SO2 Group 1 Trading Program that applies to a TR SO2 Group 1 source or the designated representative of a TR SO2 Group 1 source shall also apply to the owners and operators of such source and of the TR SO2 Group 1 units at the source.
(2) Any provision of the TR SO2 Group 1 Trading Program that applies to a TR SO2 Group 1 unit or the designated representative of a TR SO2 Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.
No provision of the TR SO2 Group 1 Trading Program or exemption under 40 CFR 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR SO2 Group 1 source or TR SO2 Group 1 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

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**PERMIT CONDITION 8**

10 CSR 10-6.075 Maximum Achievable Control Technology Regulations
40 CFR Part 63 Subpart UUUUU National Emission Standards for Hazardous Air Pollutants: Coal and Oil Fired Electric Utility Steam Generating Units

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU003</td>
<td>Boiler 3: 3179 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.02 MMCF NG/hr and 181 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47425); Constructed 1956</td>
</tr>
<tr>
<td>EU004</td>
<td>Boiler 4: 3782 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.6 MMCF NG/hr and 216 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47983-A); Constructed 1958</td>
</tr>
</tbody>
</table>

**Emission Limitations and Work Practice Standards:**
1) The permittee must meet the emission limitations in Table 2 of 40 CFR Part 63 Subpart UUUUU that applies to existing sources listed below: [§63.9991(a)(1)]
2) The permittee must meet the applicable work practice standards in Table 3 of 40 CFR Part 63 Subpart UUUUU that applies to existing sources listed below: [§63.9991(a)(1)]

**Table 2 to Subpart UUUUU of Part 63—Emission Limits for Existing EGUs**

<table>
<thead>
<tr>
<th>If your EGU is in this subcategory . . .</th>
<th>For the following pollutants . . .</th>
<th>You must meet the following emission limits and work practice standards . . .</th>
<th>Using these requirements, as appropriate (e.g., specified sampling volume or test run duration) and limitations with the test methods in Table 5 . . .</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Coal-fired unit not low rank virgin coal</td>
<td>a. Filterable particulate matter (PM)</td>
<td>.030 lb/MMBtu or 0.30 lb/MWh.²</td>
<td>Collect a minimum of 1 dscm per run.</td>
</tr>
<tr>
<td>If your EGU is in this subcategory . . .</td>
<td>For the following pollutants . . .</td>
<td>You must meet the following emission limits and work practice standards . . .</td>
<td>Using these requirements, as appropriate (e.g., specified sampling volume or test run duration) and limitations with the test methods in Table 5 . . .</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>-----------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Total non-Hg HAP metals</td>
<td>0.00005 lb/MMBtu or 0.50 lb/GWh.</td>
<td>Collect a minimum of 1 dscm per run.</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individual HAP metals:</td>
<td>OR</td>
<td>Collect a minimum of 3 dscm per run.</td>
<td></td>
</tr>
<tr>
<td>Antimony (Sb)</td>
<td>0.801 lb/TBtu or 0.008 lb/GWh.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arsenic (As)</td>
<td>1.1 lb/TBtu or 0.020 lb/GWh.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beryllium (Be)</td>
<td>0.20 lb/TBtu or 0.0020 lb/GWh.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cadmium (Cd)</td>
<td>0.30 lb/TBtu or 0.0030 lb/GWh.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chromium (Cr)</td>
<td>2.8 lb/TBtu or 0.030 lb/GWh.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cobalt (Co)</td>
<td>0.80 lb/TBtu or 0.0080 lb/GWh.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>1.2 lb/TBtu or 0.020 lb/GWh.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manganese (Mn)</td>
<td>4.0 lb/TBtu or 0.050 lb/GWh.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nickel (Ni)</td>
<td>3.5 lb/TBtu or 0.040 lb/GWh.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Selenium (Se)</td>
<td>5.0 lb/TBtu or 0.060 lb/GWh.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Hydrogen chloride (HCl)</td>
<td>0.0020 lb/MMBtu or 0.020 lb/MWh.</td>
<td></td>
<td>For Method 26A, collect a minimum of 0.75 dscm per run; for Method 26, collect a minimum of 120 liters per run.</td>
</tr>
<tr>
<td>OR</td>
<td>OR</td>
<td></td>
<td>For ASTM D6348-03 or Method 320, sample for a minimum of 1 hour.</td>
</tr>
</tbody>
</table>

For ASTM D6348-03 or Method 320, sample for a minimum of 1 hour.
If your EGU is in this subcategory . . . For the following pollutants . . . You must meet the following emission limits and work practice standards . . . Using these requirements, as appropriate (e.g., specified sampling volume or test run duration) and limitations with the test methods in Table 5 . . .

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfur dioxide (SO\textsubscript{2}) \textsuperscript{4}</td>
<td>0.20 lb/MMBtu or 1.5 lb/MWh.</td>
<td>SO\textsubscript{2}CEMS.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Mercury (Hg)</td>
<td>1.2 lb/TBtu or 0.0130 lb/GWh</td>
<td>LEE Testing for 30 days with 10 days maximum per Method 30B run or Hg CEMS or sorbent trap monitoring system only.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: For LEE emissions testing for total PM, total HAP metals, individual HAP metals, HCl, and HF, the required minimum sampling volume must be increased nominally by a factor of two.

\textsuperscript{2}Gross output.

\textsuperscript{3}Incorporated by reference, see §63.14.

\textsuperscript{4}You may not use the alternate SO\textsubscript{2} limit if your EGU does not have some form of FGD system and SO\textsubscript{2} CEMS installed.

Table 3 to Subpart UUUUU of Part 63 – Work Practice Standards

<table>
<thead>
<tr>
<th>If your EGU is . . .</th>
<th>You must meet the following . . .</th>
</tr>
</thead>
<tbody>
<tr>
<td>An existing EGU</td>
<td>Conduct a tune-up of the EGU burner and combustion controls at least each 36 calendar months, or each 48 calendar months if neural network combustion optimization software is employed, as specified in §63.10021(e).</td>
</tr>
</tbody>
</table>
| A coal-fired, liquid oil-fired (excluding limited-use liquid oil-fired subcategory units), or solid oil-derived fuel-fired EGU during startup | a. You have the option of complying using either of the following work practice standards:

1. If you choose to comply using paragraph (1) of the definition of “startup” in §63.10042, you must operate all CMS during startup. Startup means either the first-ever firing of fuel in a boiler for the purpose of producing electricity, or the firing of fuel in a boiler after a shutdown event for any purpose. Startup ends when any of the steam from the boiler is used to generate electricity for sale over the grid or for any other purpose (including on site use). For startup of a unit, you must use clean fuels as defined in §63.10042 for ignition. Once you convert to firing coal, residual oil, or solid oil-derived fuel, you must engage all of the applicable control technologies except dry scrubber and SCR. You must start your dry scrubber and SCR systems, if present, appropriately to comply with relevant standards applicable during normal operation. You must comply with all applicable emissions limits at all times except for periods that meet the applicable definitions of startup and shutdown in this subpart. You must keep records during startup periods. You must provide reports concerning activities and startup periods, as specified in §63.10011(g) and |
§63.10021(h) and (i).

(2) If you choose to comply using paragraph (2) of the definition of “startup” in §63.10042, you must operate all CMS during startup. You must also collect appropriate data, and you must calculate the pollutant emission rate for each hour of startup.

For startup of an EGU, you must use one or a combination of the clean fuels defined in §63.10042 to the maximum extent possible, taking into account considerations such as boiler or control device integrity, throughout the startup period. You must have sufficient clean fuel capacity to engage and operate your PM control device within one hour of adding coal, residual oil, or solid oil-derived fuel to the unit. You must meet the startup period work practice requirements as identified in §63.10020(e).

Once you start firing coal, residual oil, or solid oil-derived fuel, you must vent emissions to the main stack(s). You must comply with the applicable emission limits beginning with the hour after startup ends. You must engage and operate your particulate matter control(s) within 1 hour of first firing of coal, residual oil, or solid oil-derived fuel.

You must start all other applicable control devices as expeditiously as possible, considering safety and manufacturer/supplier recommendations, but, in any case, when necessary to comply with other standards made applicable to the EGU by a permit limit or a rule other than this Subpart that require operation of the control devices.

b. Relative to the syngas not fired in the combustion turbine of an IGCC EGU during startup, you must either: (1) Flare the syngas, or (2) route the syngas to duct burners, which may need to be installed, and route the flue gas from the duct burners to the heat recovery steam generator.

c. If you choose to use just one set of sorbent traps to demonstrate compliance with the applicable Hg emission limit, you must comply with the limit at all times; otherwise, you must comply with the applicable emission limit at all times except for startup and shutdown periods.

d. You must collect monitoring data during startup periods, as specified in §63.10020(a) and (e). You must keep records during startup periods, as provided in §§63.10032 and 63.10021(h). You must provide reports concerning activities and startup periods, as specified in §§63.10011(g), 63.10021(i), and 63.10031.
<table>
<thead>
<tr>
<th>Oil-fired subcategory units, or solid oil-derived fuel-fired EGU during shutdown</th>
<th>Emission rate for each hour of shutdown for those pollutants for which a CMS is used. While firing coal, residual oil, or solid oil-derived fuel during shutdown, you must vent emissions to the main stack(s) and operate all applicable control devices and continue to operate those control devices after the cessation of coal, residual oil, or solid oil-derived fuel being fed into the EGU and for as long as possible thereafter considering operational and safety concerns. In any case, you must operate your controls when necessary to comply with other standards made applicable to the EGU by a permit limit or a rule other than this Subpart and that require operation of the control devices.</th>
</tr>
</thead>
<tbody>
<tr>
<td>If, in addition to the fuel used prior to initiation of shutdown, another fuel must be used to support the shutdown process, that additional fuel must be one or a combination of the clean fuels defined in §63.10042 and must be used to the maximum extent possible, taking into account considerations such as not compromising boiler or control device integrity.</td>
<td>Relative to the syngas not fired in the combustion turbine of an IGCC EGU during shutdown, you must either: (1) Flare the syngas, or (2) route the syngas to duct burners, which may need to be installed, and route the flue gas from the duct burners to the heat recovery steam generator.</td>
</tr>
<tr>
<td>You must comply with all applicable emission limits at all times except during startup periods and shutdown periods at which time you must meet this work practice. You must collect monitoring data during shutdown periods, as specified in §63.10020(a). You must keep records during shutdown periods, as provided in §§63.10032 and 63.10021(h). Any fraction of an hour in which shutdown occurs constitutes a full hour of shutdown. You must provide reports concerning activities and shutdown periods, as specified in §§63.10011(g), 63.10021(i), and 63.10031.</td>
<td>General Requirements: 1) The permittee must be in compliance with the emission limits and operating limits at all times except during periods of startup and shutdown; however, for coal-fired EGUs, the permittee is required to meet the work practice requirements in Table 3 during periods of startup or shutdown. [§63.10000(a)] 2) At all times the permittee must operate and maintain the affected sources, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [§63.10000(b)]</td>
</tr>
</tbody>
</table>

**Initial Compliance and Performance Testing Requirements:**
1) The permittee shall demonstrate initial compliance with performance testing as specified in §§63.10005 and 63.10011 of Subpart UUUUU
2) The permittee shall demonstrate continuous compliance as specified in §63.10021 of Subpart UUUUU.
3) As part of the initial compliance demonstration, the permittee must conduct a performance tune-up of the EGUs according to §63.10021(e). [§63.10005(e)]
4) The permittee shall comply with all required subsequent performance tests and tune-ups as specified in §63.10006 of Subpart UUUUU.
5) The permittee shall follow the methods and other procedures for performance testing as described in §63.10007 of Subpart UUUUU.

**Monitoring:**
1) The permittee shall comply with all monitoring, installation, operation and maintenance requirements as specified in §63.10010 of Subpart UUUUU.
2) The permittee shall monitor and collect data to demonstrate compliance according to the methods required in §63.10020 of Subpart UUUUU.

**Demonstrating Continuous Compliance:**
1) The permittee shall demonstrate continuous compliance with each emissions limit, operating limit, and work practice standard in Tables 2 through 4 to 40 CFR Part 63, Subpart UUUUU that applies, according to the monitoring specified in Tables 6 and 7 to 40 CFR Part 63, Subpart UUUUU and §63.10021(b) through (g). [§63.10021(a)]
2) Except as otherwise provided in §§63.10020(c), if the permittee uses a CEMS to measure SO₂, PM, HCl, or Hg emissions, or uses a sorbent trap monitoring system to measure Hg emissions, the permittee shall demonstrate continuous compliance by using all quality-assured hourly data recorded by the CEMS (or sorbent trap monitoring system) and the other required monitoring systems (e.g., flow rate, CO₂, O₂, or moisture systems) to calculate the arithmetic average emissions rate in units of the standard on a continuous 30-boiler operating day (or, if alternate emissions averaging is used for Hg, 90-boiler operating day) rolling average basis, updated at the end of each new boiler operating day. Use Equation 8 to determine the 30-(or, if applicable, 90-) boiler operating day rolling average.

\[
\text{Boiler Operating Day Average} = \frac{\sum_{i=1}^{n} \text{Her}_i}{n} \quad \text{Equation 8}
\]

Where:
\( \text{Her}_i \) is the hourly emissions rate for hour \( i \) and \( n \) is the number of hourly emissions rate values collected over 30-(or, if applicable, 90-) boiler operating days. [§63.10021(b)]

3) If the permittee uses quarterly performance testing to demonstrate compliance with one or more applicable emissions limits in Table 2 to 40 CFR Part 63, Subpart UUUUU, the permittee [§63.10021(d)]
   a) May skip performance testing in those quarters during which less than 168 boiler operating hours occur, except that a performance test shall be conducted at least once every calendar year. [§63.10021(d)(1)]
b) Shall conduct the performance test as defined in Table 5 to 40 CFR part 63, Subpart UUUUU and calculate the results of the testing in units of the applicable emissions standard; and [§63.10021(d)(2)]

4) Notwithstanding the provisions of §63.10021(d)(1), the permittee must complete performance tests for the EGU with at least 45 calendar days, measured from the test’s end date, separating performance tests conducted every quarter. [§63.1006(f)(i)]

**Recordkeeping:**

1) The permittee shall keep records as required by §63.10032 of Subpart UUUUU.

2) The records must be in a form suitable and readily available for expeditious review, according to § 63.10(b)(1). [§63.10033(a)]

3) As specified in § 63.10(b)(1), the permittee must keep each record for five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [§6310033(b)]

4) The permittee must keep each record on site for at least two (2) years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to § 63.10(b)(1). Records can be kept off-site for the remaining 3 years. [§6310033(c)]

5) Records shall be retained in either hard copy or electronic form.

**Notifications and Reporting:**

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

2) The permittee shall submit applicable notifications as required by §63.10030 of Subpart UUUUU.

3) The permittee shall submit all reports in Table 8 of Subpart UUUUU that are applicable: [§63.10031]

**Table 8 to Subpart UUUUU of Part 63—Reporting Requirements**

<table>
<thead>
<tr>
<th>You must submit a</th>
<th>The report must contain...</th>
<th>You must submit the report...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compliance report</td>
<td>a. Information required in §63.10031(c)(1) through (9); and</td>
<td>Semiannually according to the</td>
</tr>
<tr>
<td></td>
<td>b. If there are no deviations from any emission limitation</td>
<td>requirements in §63.10031(b).</td>
</tr>
<tr>
<td></td>
<td>(emission limit and operating limit) that applies to you and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>there are no deviations from the requirements for work</td>
<td></td>
</tr>
<tr>
<td></td>
<td>practice standards in Table 3 to this subpart that apply to</td>
<td></td>
</tr>
<tr>
<td></td>
<td>you, a statement that there were no deviations from the</td>
<td></td>
</tr>
<tr>
<td></td>
<td>emission limitations and work practice standards during the</td>
<td></td>
</tr>
<tr>
<td></td>
<td>reporting period. If there were no periods during which the</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CMSs, including continuous emissions monitoring system, and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>operating parameter monitoring systems, were out-of-control</td>
<td></td>
</tr>
<tr>
<td></td>
<td>as specified in §63.8(c)(7), a statement that there were no</td>
<td></td>
</tr>
</tbody>
</table>
PERMIT CONDITION 9
10 CSR 10-6.405 Restriction of Particulate Matter Emissions from Fuel Burning Equipment Used for Indirect Heating

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU003</td>
<td>Boiler 3: 3179 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.02 MMCF NG/hr and 181 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47425); Constructed 1956</td>
</tr>
<tr>
<td>EU004</td>
<td>Boiler 4: 3782 MMBtu/hr Pulverized Coal and Natural Gas Boiler; MHDR = 3.6 MMCF NG/hr and 216 tons coal/hr; Manufactured by Foster Wheeler (Model No. ST-47983-A); Constructed 1958</td>
</tr>
</tbody>
</table>

**Emission Limitation:**
The permittee shall not emit particulate matter in excess of 0.12 pounds per MMBtu of heat input.

**Monitoring/Recordkeeping/Reporting:**
The monitoring, record keeping and reporting requirements of Permit Condition 8 ensure compliance emission limit.

PERMIT CONDITION 10
10 CSR 10-6.070 New Source Performance Regulations
40 CFR Part 60 Subpart IIII Standards of Performance for Compression Ignition Internal Combustion Engines

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU005a</td>
<td>Emergency CT2 Black Start Diesel Generator: 4.82 MMBtu/hr Distillate fuel oil fired; Manufactured by Caterpillar (Model C15); Constructed 6/2009</td>
</tr>
</tbody>
</table>

**Emission Limitation:**
1) The permittee must comply with the emission standards for new CI engines in §60.4201 for the 2007 model year and later stationary CI ICE, as applicable. [§60.4204(b)]
2) The permittee must operate and maintain the engine so as to achieve the emissions standards over the life of the engine. [§60.4206]
3) The permittee must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. [§60.4207(b)]

4) The permittee must operate and maintain the engine according to the manufacturer’s emission-related written instructions, may only change those emission-related settings that are permitted by the manufacturer and must meet the applicable requirements of 40 CFR Part 89. [§60.4211(a)(1)-(3)]

5) The permittee must comply with the emission standards by purchasing an engine certified to the emission standards. The engine must be installed and configured according to the manufacturer’s emission–related specifications. [§60.4211(c)]

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

### PERMIT CONDITION 11

10 CSR 10-6.075 Maximum Achievable Control Technology Requirements

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU005b</td>
<td>Diesel Fire Pump; 290 HP; Manufactured 5/14/2001</td>
</tr>
</tbody>
</table>

**Operational Limitations:**

1) The permittee must operate and maintain the generator in a manner consistent with safety and good air pollution control practices for minimizing emissions. [§63.6605(b)]

2) The permittee must comply with the requirements in Table 2c of Subpart ZZZZ which apply to the generator:

<table>
<thead>
<tr>
<th>For each . . .</th>
<th>You must meet the following requirement, except during periods of startup . . .</th>
<th>During periods of startup you must . . .</th>
</tr>
</thead>
</table>
| 1. Emergency stationary CI RICE | a. Change oil and filter every 500 hours of operation or annually, whichever comes first.  
  b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;  
  c. Inspect all hoses and | Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. |
3) The permittee shall install a non-resettable hour meter if one is not already installed.  

[$\text{§63.6625(f)}$]

**Annual Usage Limitations:**

The permittee shall operate the emergency stationary RICE according to the requirements in paragraphs §63.6640(f)(1) through (4). In order for the engine to be considered an emergency stationary RICE under 40 CFR 63 Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for more than 50 hours per year, as described in paragraphs §63.6640(f)(1) through (4), is prohibited. If you do not operate the engine according to the requirements in paragraphs §63.6640(f)(1) through (4), the engine will not be considered an emergency engine under 40 CFR 63 Subpart ZZZZ and must meet all requirements for non-emergency engines.  

[$\text{§63.6640(f)}$]

a) There is no time limit on the use of emergency stationary RICE in emergency situations.  

[$\text{§63.6640(f)(1)}$]

b) The permittee may operate the emergency stationary RICE for any combination of the purposes specified in paragraphs §63.6640(f)(2)(i) through (iii) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs §63.6640(f)(3) and (4) counts as part of the 100 hours per calendar year allowed by this paragraph §63.6640(f)(2).  

[$\text{§63.6640(f)(2)}$]

i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Director for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.  

[$\text{§63.6640(f)(2)(i)}$]

ii) Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.  

[$\text{§63.6640(f)(2)(ii)}$]

iii) Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of five percent or greater below standard voltage or frequency.  

[$\text{§63.6640(f)(2)(iii)}$]

c) Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for
maintenance and testing and emergency demand response provided in paragraph §63.6640(f)(2). The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [§63.6640(f)(3)]

**Recordkeeping/Reporting:**
1) The permittee shall maintain records for this unit as required in §63.6655.
2) The permittee shall submit reports for this unit as required in §63.6650.

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

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**PERMIT CONDITION 12**

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU006A/B</td>
<td>Combustion Turbine 2: 927 MMBtu/hr distillate Fuel Oil and Natural Gas fired; Manufactured by Turbo Power &amp; Marine – a subsidiary of Pratt &amp; Whitney (Model FT4-C1D)</td>
</tr>
</tbody>
</table>

**Emission Limitation:**
1) The permittee may only burn natural gas and/or number two fuel oil in Combustion Turbine 2 (EU006A/B). The sulfur content of the fuel oil shall be 0.5 percent or less by weight. [Special Condition 1]
2) The permittee shall emit less than 40 tons per year of NOx and sulfur dioxide (SO2) from Combustion Turbine 2 on a twelve month rolling total. [Special Condition 2]

**Monitoring:**
1) The permittee shall maintain monthly fuel usage records for natural gas and #2 fuel oil burned by the combustion turbine, including the BTU content of each fuel and the sulfur content of the fuel oil. These records shall be used to calculate the monthly emissions of NOx and SO2 utilizing emission factors obtained by testing or AP-42 for NOx (0.246 lb/MMBtu (gas) and 0.364 lb/MMBtu (oil) and for SOx (0.0006 lb/MMBtu (gas) and 0.362 lb/MMBtu (oil)). These calculated NOx and SO2 emissions shall be added to the previous eleven months of calculated emission records to determine compliance with the emission limitation. [Special Condition 4]
2) All records and calculations shall be completed within ten days of the end of each calendar month.
3) The permittee shall retain records for five years and make them available to the St. Louis County Air Pollution Control Program and Missouri Department of Natural Resources personnel upon request.
**PERMIT CONDITION 13**

10 CSR 10-6.060 Construction Permits Required  
Construction Permit 6620, Issued May 5, 2000 by St. Louis County Department of Health  
10 CSR 10-6.400 Restriction of Emission of Particulate Matter From Industrial Processes

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU009 &amp; EU010</td>
<td>Rail Car Unloading Pit, Coal; Water Spray Dust Suppression</td>
</tr>
<tr>
<td></td>
<td>Convey/Transfer/Stack Coal; Enclosure and Water Spray</td>
</tr>
<tr>
<td></td>
<td>MHDR: 4,000 ton/hr, 90 percent est. efficiency ; Manufacturer : CDS Engineering</td>
</tr>
</tbody>
</table>

**Emission Limitation:**

1) Particulate matter shall not be emitted from EU009 and EU010 in excess of 77.6 lb/hr.  
   This emission rate was calculated using the following equation:  
   a) For process weight rates of 60,000 lb/hr or greater:  
      \[ E = 55.0(P)^{0.11} - 40 \]  
      Where:  
      \[ E = \text{rate of emission in lb/hr} \]  
      \[ P = \text{process weight rate in tons/hr} \]  
2) The concentration of particulate matter in the exhaust gases shall not exceed 0.30 gr/scf.  
3) The permittee shall apply water or a chemical dust suppressant in quantities which will ensure that the coal is adequately wetted during all phases of the handling operations.

**Monitoring/Recordkeeping:**

1) The permittee shall record the time, date and the amount of material applied for each application and shall make records available for inspection to the Department of Natural Resources’ personnel upon request.  
2) All records shall be kept for a period of five years.

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).
PERMIT CONDITION 14

40 CFR 60 Subpart Y Standards of Performance for Coal Preparation and Processing Plants
Construction Permit 6621, Revised April 7, 2009 by St. Louis County Department of Health

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU009A</td>
<td>Coal Conveyors C10 and C43; installed in April 2009; Enclosure and dust suppression MHDR: 4,000 ton/hr, 90 percent est. efficiency; Manufacturer: CDS Engineering</td>
</tr>
</tbody>
</table>

**Emission Limitation:**

1) The permittee shall not cause to be discharged into the atmosphere from the affected coal conveyors any gases which exhibit 10 percent opacity or greater. [40 CFR 60.254(b)(1)]

**Initial Compliance and Performance Testing Requirements:**

1) For affected coal conveyors enclosed in a building, if emissions from the building do not exceed the applicable opacity limitation, then the affected source shall be deemed to be in compliance with such standard. [40 CFR 60.255(c)]

2) The permittee shall conduct an initial performance test on each affected source in accordance with the requirements of 40 CFR 60.8 and 60.255(b)(2).

3) The permittee shall conduct additional performance testing in accordance with 40 CFR 60.255(b)(2)(i) through (iii) except as provided for in 40 CFR 60.255(f). [40 CFR 60.255(b)(2)]

4) As an alternative to conducting the performance testing of 40 CFR 60.255(b)(2)(i) through (iii), the permittee may elect to comply with the requirements of 40 CFR 60.255(f)(1) or (1). [40 CFR 60.255(f)]

**Monitoring/Recordkeeping:**

1) The permittee shall maintain records of all observation results (see Attachment B), 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 were normal for the process.

2) The permittee shall maintain records of any equipment malfunctions. (see Attachment D)

3) The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment C)

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

5) All records shall be kept for a period of five years.

**Reporting:**

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).
PERMIT CONDITION 15
10 CSR 10-6.400 Restriction of Emission of Particulate Matter from Industrial Processes
10 CSR 10-6.060 Construction Permits Required
Construction Permit 6743, Issued January 9, 2003 by St. Louis County Department of Health

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU015</td>
<td>Fly Ash Handling System: Pneumatic Conveying of fly ash from the ESP hoppers to three filter separators and two fly ash storage silos. Loading of fly ash from the storage silos to trucks; MHDR = 22.7 tons/hr; Controlled by Bag filters on each silo and truck loading; Constructed 2001</td>
</tr>
</tbody>
</table>

Operational Requirements:
1) The Fly Ash Handling System shall not be operated unless the control devices on the Filter Separators, Silos and Truck Loading are also in operation. [CP Special Condition 1]
2) These units are provided a conditional exemption from 10 CSR 10-6.400 per §6.400(1)(B)15.
3) The permittee shall maintain the exemption from 10 CSR 10-6.400 rule by complying with the operation, monitoring and maintenance requirements for the associated control device.

Equipment and Operation Parameters:
1) The baghouse system must be in use at all times this unit is in operation to maintain the conditional exemption from this rule.
2) The permittee shall maintain and operate the baghouses and their respective instrumentation according to the manufacturer’s specifications and recommendations.
3) These emission units shall not be operated without fabric filters in place in all baghouses that service these emission units.
4) The pressure drop across the baghouse filters shall be maintained within the design conditions specified by the manufacturer’s performance warranty.
   a) If the pressure drop falls out of this normal operating range, corrective action shall be taken within eight (8) hours to return the pressure drop to normal.
   b) If the corrective action cannot be taken within eight (8) hours, the affected baghouse ventilation system will either be shut down, or will be directed such that the emissions form the affected baghouse are vented back into the building.
   c) A pressure drop reading of less than two (2) inches may be observed for a period following the installation of a new bag.
5) Replacement filters for the baghouse shall be kept on hand at all times and be made of fibers appropriate for the operating conditions that are expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).

Monitoring:
1) The permittee shall check the baghouse pressure drop daily when units are in operation.
2) The permittee shall thoroughly inspect dust collection system/baghouse for leaks and wear semi-annually.
3) If leaks or abnormal conditions are detected, the appropriate measures for remediation shall be implemented within eight (8) hours.

Recordkeeping:
1) The permittee shall retain records of the daily pressure drop readings.
2) The permittee shall maintain records of all inspections of each baghouse.
3) The permittee shall maintain records of all fabric filter replacements and maintenance performed.
4) The permittee shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources’ personnel upon request.

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

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**PERMIT CONDITION 16**
10 CSR 10-6.220 Restriction of Emission of Visible Air Contaminant

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU015</td>
<td>Fly Ash Handling System: Pneumatic Conveying of fly ash from the ESP hoppers to three filter separators and two fly ash storage silos. Loading of fly ash from the storage silos to trucks; MHDR = 22.7 tons/hr; Controlled by Bag filters on each silo and truck loading; Constructed 2001</td>
</tr>
</tbody>
</table>

**Emission Limitation:**
No owner or other person shall cause or permit emissions to be discharged into the atmosphere from any **new** source any visible emissions with an opacity greater than 20%.

*New source:* any equipment, machine, device, article, contrivance or installation installed in the outstate Missouri area after February 24, 1971. 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 60 minutes air contaminants with an opacity up to 60%.

**Monitoring:**
1) The permittee shall make an observation of the presence or absence of visible emissions from this emission unit 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: (Issuance of a renewal operating permit does not restart this schedule.)
   a) Weekly observations shall be conducted for a minimum of eight 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 (2) weeks for a period of eight 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.

**Recordkeeping:**
1) The permittee shall maintain records of all observation results (see Attachment B), noting:
   d) Whether any air emissions (except for water vapor) were visible from the emission units,
   e) All emission units from which visible emissions occurred, and
   f) Whether the visible emissions were normal for the process.
5) The permittee shall maintain records of any equipment malfunctions. (see Attachment D)
6) The permittee shall maintain records of any Method 9 test performed in accordance with this permit condition. (see Attachment C)
7) These records shall be made available immediately for inspection to Department of Natural Resources personnel upon request.
8) All records shall be maintained for five years.

**Reporting:**
1) The permittee shall report to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after a method 9 test indicates a violation of the opacity limitation.
2) The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

**PERMIT CONDITION 17**

10 CSR 10-5.330 Control of Emissions from Solvent Metal Cleaning

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU013</td>
<td>Parts Washer, 36” x 53” x 20”</td>
</tr>
</tbody>
</table>

**Emission Limitation:**
1) The permittee shall comply with the following equipment specifications (Section (3)(A)1 Cold Cleaners):
   a) The cold cleaning solvent vapor pressure shall not exceed 1.0 millimeters of Mercury (mmHg) at twenty degrees Celsius (20°C) (sixty-eight degrees Fahrenheit (68°F)).
   b) Each cold cleaner will have a cover, which will prevent the escape of solvent vapors while in the closed position, or enclosed reservoir, which will limit the escape of solvent vapors whenever parts are not being processed in the cleaner.
   c) Alternate methods for reducing cold cleaning emissions may be used if the permittee shows the emission control is at least equivalent to the control in (a) above and is approved by the Director.
   d) When one (1) or more of the following conditions exist the design of the cover shall be such that it can easily be operated with one (1) hand and without disturbing the solvent vapors in the tank. (For covers larger than ten (10) square feet, this shall be accomplished by either mechanical assistance or by a power system).
      i) The solvent volatility is greater than 0.3 psi at one hundred degrees Fahrenheit (100°F)
ii) The solvent is agitated.
iii) The solvent is heated.

e) A drainage facility allowing parts to drain while the cover is closed is required.
f) If an internal drainage facility as in (f) cannot fit into the cleaning system and the solvent
volatility is less than 0.6 psi at one hundred degrees Fahrenheit (100°F), then the cold
cleaner shall have an external drainage facility which provides for the solvent to drain
back into the solvent bath.
g) Solvent sprays shall be a solid fluid stream and at a pressure which does not cause
splashing above or beyond the freeboard.
h) 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.
i) Any cold cleaner which uses a solvent that has a solvent volatility greater than 0.6 psi at
one hundred degrees Fahrenheit (100°F) or heated above one hundred twenty degrees
Fahrenheit (120°F) must have one (1) of the following control devices:
   i) A freeboard ratio of at least 0.75;
   ii) Water cover (solvent must be insoluble in and heavier than water);
   iii) Another control system that has a mass balance demonstrated emission reduction
efficiency of at least sixty-five percent (65%) and is approved by the Director prior
to use.

2) Operating procedures (Section (3)(B)1 Cold Cleaners):
   a) Covers shall be closed whenever parts are not being handled in the cleaners, or solvent
must drain into an enclosed reservoir.
   b) Cleaned parts shall be drained in the free board area for fifteen (15) seconds, or until
dripping stops, whichever is longer.
   c) Whenever a cold cleaner fails to perform within the operating parameters established by
this rule, the unit shall be shut down and secured until trained service personnel are able
to restore operation within the established parameters.
   d) Solvent leaks shall be repaired immediately, or the degreaser shall be shut down and the
leaks secured until they can be more permanently repaired.
   e) Waste material removed from a cold cleaner shall be disposed of by one of the methods
listed in the rule or equivalent (after the Director’s approval) and in accordance with 10
CSR 25, as applicable.
   f) Waste solvent shall be stored in closed containers only.

3) Operator and Supervisor Training (Section (3)(C)):
   a) Persons who operate a cold cleaner shall be trained in the operational and equipment
requirements specified in this rule.
   b) The supervisor of any person who operates a cold cleaner shall receive equal or greater
operational training than the operator.
   c) Persons who operate a cold cleaner shall receive a procedural review at least once each
twelve (12) months.

Monitoring/Recordkeeping:
1) The permittee shall maintain the following monthly records:
   a) Types and amounts of solvent containing waste material from cleaning or degreasing
operations:
      i) Transferred to a contract reclamation service or disposal facility
      ii) Distilled on the premises
b) Maintenance and repair logs for the cold cleaner and any associated control equipment.

2) For cold cleaners subject to (3)(A)1 (a) or (b) the permittee shall maintain the following records for each purchase of cold cleaning solvent:
   a) The name and address of the solvent supplier;
   b) The date of purchase;
   c) The type of solvent; and
   d) The vapor pressure of the solvent in mmHg at 20°C (68°F)

3) The permittee shall keep a record of the cold cleaner training for each employee.

4) The permittee shall retain records for the previous sixty (60) month period and make them available to the St. Louis County Air Pollution Control Program and Missouri Department of Natural Resources personnel upon request.

**Reporting:**

1) The permittee shall report to the St. Louis County Air Pollution Control Program, and the Missouri Department of Natural Resources Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, no later than thirty (10) days after the discovery a deviation from the solvent vapor pressure or other equipment specifications in paragraph 1 of the Emission Limitations.

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

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU014</td>
<td>1000- Gallon Above Ground Gasoline Storage Tank with Associated Dispensing Equipment; Manufactured 1998</td>
</tr>
</tbody>
</table>

**PERMIT CONDITION 18**

10 CSR 10-5.220 Control of Petroleum Liquid Storage, Loading and Transfer

**Operational Limitation:**

The permittee shall not permit the transfer of gasoline from a delivery vessel into a gasoline storage tank with a capacity greater than five-hundred (500) gallons unless:

a) The storage tank is equipped with a submerged fill pipe extending unrestricted to within 6 inches 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;

b) All storage tank caps and fittings are vapor-tight when gasoline transferred is not taking place; and

c) Each storage tank is vented via a conduit that has at least a 2 inch inside diameter, is at least 12 feet high above grade and is equipped with a pressure/vacuum valve that is CARB certified at least 3 inches water column pressure per 8 inches water column vacuum (3”wcp/8”wcv) unless the system is CARB certified for a different valve and will not function properly with a 3”wcp/8”wcv valve.

**Monitoring/Recordkeeping:**

1) The permittee shall keep records documenting the vessel owners and number of delivery vessels unloaded by each owner.
2) The permittee shall keep on-site copies of the loading ticket, manifest or delivery receipt for each grade of product received.

3) If a delivery receipt is retained rather than a manifest or loading ticket, the delivery ticket shall bear the vendor name, date of delivery, quantity of each grade, point of origin and the manifest or loading ticket number.

4) Retain records for the previous sixty (60) month period and make them available to the St. Louis County Air Pollution Control Program and Missouri Department of Natural Resources’ personnel, upon request.

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

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

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) 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.

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) 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 to the director in writing at least ten days prior to any maintenance, start-up or shutdown activity 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, notice shall be given as soon as practicable prior to the activity.

3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information
submitted by the permittee or any other pertinent information available, the director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under section 643.080 or 643.151, RSMo.

4) Nothing in this rule shall be construed to limit the authority of the director or commission to take appropriate action, under sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.

5) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

10 CSR 10-6.060  Construction Permits Required
The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

10 CSR 10-6.065  Operating Permits
The permittee shall file a complete application for renewal of this operating permit at least six months before the date of permit expiration. In no event shall this time be greater than eighteen months. The permittee shall retain the most current operating permit issued to this installation on-site. The permittee shall immediately make such permit available to any Missouri Department of Natural Resources personnel upon request.

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.

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  Reporting of Emission Data, Emission Fees and Process Information
1) The permittee shall submit a Full Emissions Report either electronically via MoEIS, which requires Form 1.0 signed by an authorized company representative, or on Emission Inventory Questionnaire (EIQ) paper forms on the frequency specified in this rule and in accordance with the requirements outlined in this rule. Alternate methods of reporting the emissions, such as spreadsheet file, can be submitted for approval by the director.

2) 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.
3) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079.

10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential
This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.

10 CSR 10-6.150 Circumvention
The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

10 CSR 10-6.165 Restriction of Emission of Odors
This requirement is not federally enforceable.
No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour. This odor evaluation shall be taken at a location outside of the installation’s property boundary.

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.
**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.

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**10 CSR 10-6.180 Measurement of Emissions of Air Contaminants**
1) The director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The director may specify testing methods to be used in accordance with good professional practice. The director may observe the testing. All tests shall be performed by qualified personnel.
2) The director may conduct tests of emissions of air contaminants from any source. Upon request of the director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
3) The director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

**10 CSR 10-6.280 Compliance Monitoring Usage**
1) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
   a) Monitoring methods outlined in 40 CFR Part 64;
   b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, “Operating Permits”, and incorporated into an operating permit; and
   c) Any other monitoring methods approved by the director.
2) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from
the use of the following methods is presumptively credible evidence of whether a violation has occurred at an installation:

a) Monitoring methods outlined in 40 CFR Part 64;

b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, “Operating Permits”, and incorporated into an operating permit; and

c) Compliance test methods specified in the rule cited as the authority for the emission limitations.

3) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

a) Applicable monitoring or testing methods, cited in:

i) 10 CSR 10-6.030, “Sampling Methods for Air Pollution Sources”;

ii) 10 CSR 10-6.040, “Reference Methods”;

iii) 10 CSR 10-6.070, “New Source Performance Standards”;

iv) 10 CSR 10-6.080, “Emission Standards for Hazardous Air Pollutants”; or

b) Other testing, monitoring, or information gathering methods, if approved by the director, that produce information comparable to that produced by any method listed above.

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

No owner or operator shall operate applicable hand-fired fuel burning equipment unless the owner or operator meets the conditions set forth in 10 CSR 10-5.040. This regulation shall apply to all hand-fired fuel-burning equipment at commercial facilities 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 or to other equipment exempted under 10 CSR 10-5.040. 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

(Rescinded on February 11, 1979, 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, 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% sulfur or 12.0% 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% 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.

40 CFR Part 82 Protection of Stratospheric Ozone (Title VI)

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 40 CFR §82.106.
   b) The placement of the required warning statement must comply with the requirements of 40 CFR §82.108.
   c) The form of the label bearing the required warning statement must comply with the requirements of 40 CFR §82.110.
   d) No person may modify, remove, or interfere with the required warning statement except as described in 40 CFR §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 of 40 CFR Part 82:
   a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices described in 40 CFR §82.156.
   b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment described in 40 CFR §82.158.
   c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR §82.161.
   d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with the record keeping requirements of 40 CFR §82.166. ("MVAC-like" appliance as defined at 40 CFR §82.152).
   e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR §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 40 CFR §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 contained 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, Compliance and 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.
   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. 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 semiannual report shall be reported on the schedule specified in this permit.

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)

If the installation is required to develop and register a risk management plan pursuant to Section 112(R) of the Act, the permittee will verify that it has complied with the requirement to register the plan.

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.

An Acid Rain Permit is being issued to this facility along with this operating permit. The Acid Rain Permit will expire on the same date as the operating permit.

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

In the event of a successful challenge to any part of this permit, all uncontested permit conditions shall continue to be in force. All terms and conditions of this permit remain in effect pending any administrative or judicial challenge to any portion of the permit. If any provision of this permit is invalidated, the permittee shall comply with all other provisions of the permit.
10 CSR 10-6.065(6)(C)1.G General Requirements

1) The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.

2) The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

3) The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

4) This permit does not convey any property rights of any sort, nor grant any exclusive privilege.

5) The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted pursuant to 10 CSR 10-6.065(6)(C)1.

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

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

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

See Permit Condition 1.

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 semiannually (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, 11201 Renner Blvd., Lenexa, KS 66219, as well as the Air Pollution Control Program, Compliance and 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 applicable 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, Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, 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, Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, 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 APCP shall place a copy with the permit in the public file. Written notice shall be
provided to the EPA and the APCP 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 APCP 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 permit, 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 contemporaneous written notice of the change to the Air Pollution Control Program, Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219. This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3 of this rule. 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)34 Responsible Official**

The application utilized in the preparation of this permit was signed by Ajay Arora, Vice President Environmental Services & Generation Resource Planning. The Air Pollution Control Program received a letter June 2, 2016 requesting that the following individuals be recognized as responsible officials: James D. Witges, Director Meramec Energy Center; Jim L. Williams, Senior Director Power Operations; Mark C. Birk, Senior Vice President Corporate Safety, Planning & Operations Oversight; and Ajay K. Arora, Vice President Environmental Services & Generation Resource Planning. If any of these individuals 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 (MDNR) receives notice from the Environmental Protection Agency (EPA) that a petition for disapproval of a permit pursuant to 40 CFR § 70.8(d) has been granted, provided that the reopening may be stayed pending judicial review of that determination,

2) MDNR 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) MDNR or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

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

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

Attachments follow.
## Attachment A
Fugitive Emission Observations

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Visible Emissions</th>
<th>Abnormal Emissions</th>
<th>Corrective Action</th>
<th>Initial</th>
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<tbody>
<tr>
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<td>Beyond Boundary</td>
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</table>
## Attachment B
Visible Emission Observations

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Emission Source</th>
<th>Visible Emissions</th>
<th>Actions</th>
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\(^1\)If there are visible emissions, the permittee shall complete the Actions columns.
### Attachment C

**Method 9 Opacity Observations**

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<thead>
<tr>
<th>Company</th>
<th>Observer</th>
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<tbody>
<tr>
<td>Location</td>
<td>Observer Certification Date</td>
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<tr>
<td>Date</td>
<td>Emission Unit</td>
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<td>Time</td>
<td>Control Device</td>
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<table>
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<tr>
<th>Hour</th>
<th>Minute</th>
<th>Seconds</th>
<th>Steam Plume (check if applicable)</th>
<th>Comments</th>
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<td>0 15 30 45</td>
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**SUMMARY OF AVERAGE OPACITY**

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<tr>
<th>Set Number</th>
<th>Time</th>
<th>Opacity</th>
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<td>Start</td>
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Readings ranged from ________ to ________ % opacity.

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

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<tr>
<th>YES</th>
<th>NO</th>
<th>Signature of Observer</th>
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## Attachment D
### Inspection/Maintenance/Repair/Malfunction Log

Emission Unit # ________________________________

<table>
<thead>
<tr>
<th>Date/Time</th>
<th>Inspection/Maintenance Activities</th>
<th>Malfunction Activities</th>
<th>Malfunction</th>
<th>Impact</th>
<th>Duration</th>
<th>Cause</th>
<th>Action</th>
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ATTACHMENT E

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: Ameren Missouri Meramec Energy Center
ORIS Code: 2104
Unit ID: Boilers 1 through 4

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

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

This Acid Rain permit is being issued in conjunction with this operating permit and is effective for the same period of time as the operating permit. The permittee shall submit an application to renew this Acid Rain permit in conjunction with the operating permit renewal application.

DEC 06 2016
Date

Director or Designee,
Department of Natural Resources
## Acid Rain Permit Application

For more information, see instructions and refer to 40 CFR 72.30 and 72.31

This submission is: [ ] New   [ ] Revised

### Plant Information

<table>
<thead>
<tr>
<th>Plant Name</th>
<th>State</th>
<th>ORIS Code</th>
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<tbody>
<tr>
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### Table of Unit Information

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EPA Form 7610-16 (rev. 12-03)
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.
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.

EPA Form 7610-16 (rev. 12-03)
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 (NOx 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.

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  Mark C. Birk - Designated Representative

Signature  [Signature]

Date  1/27/15
TITLE V: CLEAN AIR INTERSTATE RULE (CAIR) PERMIT

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

Installation Name: Ameren Missouri Meramec Energy Center
ORIS Code: 2104
Unit IDs: Boilers 1 through 4, CT01, CT2A and CT2B

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 Boilers 1 through 4, CT01, CT2A and CT2B at the Ameren Missouri Meramec Energy Center, plant 189-0010.

This CAIR permit is being issued in conjunction with this operating permit and is effective for the same period of time as the operating permit. The permittee shall submit an application to renew this CAIR permit in conjunction with the operating permit renewal application.

DEC 06 2016
Date

Lydia Moore
Director or Designee,
Department of Natural Resources
CAIR Permit Application
(for sources covered under a CAIR SIP)

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

This submission is:  X New  □ Revised

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<th>ORIS/Facility Code</th>
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**Unit ID#** | **NOx Annual** | **SO2** | **NOx Ozone Season**
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1 | X | X | X
2 | X | X | X
3 | X | X | X
4 | X | X | X
CT01 | X | X | X
CT2A | X | X | X
CT2B | X | X | X

**Standard Requirements**

(a) Permit Requirements.

(1) The CAIR designated representative of each CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) required to have a title V operating permit and each CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable) required to have a title V operating permit at the source shall:

(i) Submit to the permitting authority a complete CAIR permit application under §96.122, §96.222, and §96.322 (as applicable) in accordance with the deadlines specified in §96.121, §96.221, and §96.321 (as applicable); and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.

(2) The owners and operators of each CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) required to have a title V operating permit and each CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable) required to have a title V operating permit at the source shall have a CAIR permit issued by the permitting authority under subpart CC, CCC, and CCCC (as applicable) of 40 CFR part 96 for the source and operate the source and the unit in compliance with such CAIR permit.

(3) Except as provided in subpart II, III, and IIII (as applicable) of 40 CFR part 96, the owners and operators of a CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) that is not otherwise required to have a title V operating permit and each CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable) that is not otherwise required to have a title V operating permit are not required to submit a CAIR permit application, and to have a CAIR permit, under subpart CC, CCC, and CCCC (as applicable) of 40 CFR part 96 for such CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) and such CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable).
STEP 3, continued

(b) Monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) and each CAIR NOx unit, CAIR SO2 unit, and CAIR NOx 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 NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) with the CAIR NOx emissions limitation, CAIR SO2 emissions limitation, and CAIR NOx 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 NOx source and each CAIR NOx unit at the source shall hold, in the source's compliance account, CAIR NOx 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 NOx units at the source, as determined in accordance with subpart HH of 40 CFR part 96.

(2) A CAIR NOx 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 (3) and for each control period thereafter.

(3) A CAIR NOx 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 NOx allowance was allocated.

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

(5) A CAIR NOx allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NOx Annual Trading Program. No provision of the CAIR NOx Annual Trading Program, the CAIR permit, or an exemption under §98.105 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 NOx 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 NOx allowance to or from a CAIR NOx source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR NOx unit.

Sulfur dioxide emission requirements.

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

(2) A CAIR SO2 unit shall be subject to the requirements under paragraph (c)(1) of §96.206 for the control period starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under §96.270(b)(1), (2), (3) and for each control period thereafter.

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

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

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

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

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

Nitrogen oxides ozone season emissions requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NOx 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 NOx Ozone Season units at the source, as determined in accordance with subpart HHHH of 40 CFR part 96.

(2) A CAIR NOx 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 NOx 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 NOx Ozone Season allowance was allocated.

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

(5) A CAIR NOx allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NOx Ozone Season Trading Program. No provision of the CAIR NOx 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 NOx 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 NOx Ozone Season allowance to or from a CAIR NOx Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.
STEP 3, continued

(d) Excess emissions requirements.

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

1. The owners and operators of the source and each CAIR NOx unit at the source shall surrender the CAIR NOx allowances required for deduction under §96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

2. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

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

1. The owners and operators of the source and each CAIR SO2 unit at the source shall surrender the CAIR SO2 allowances required for deduction under §96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

2. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

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

1. The owners and operators of the source and each CAIR NOx Ozone Season unit at the source shall surrender the CAIR NOx 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 NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) and each CAIR NOx unit, CAIR SO2 unit, and CAIR NOx 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.

2. 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 NOx unit, CAIR SO2 unit, and CAIR NOx 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.

3. 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.

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

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

6. The CAIR designated representative of a CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) and each CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable) at the source shall submit the reports required under the CAIR NOx Annual Trading Program, CAIR SO2 Trading Program, and CAIR NOx 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 NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) and each NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable) shall meet the requirements of the CAIR NOx Annual Trading Program, CAIR SO2 Trading Program, and CAIR NOx Ozone Season Trading Program (as applicable).

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

3. Any provision of the CAIR NOx Annual Trading Program, CAIR SO2 Trading Program, and CAIR NOx Ozone Season Trading Program (as applicable) that applies to a CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable) shall also apply to the owners and operators of such unit.
(g) Effect on Other Authorities.
No provision of the CAIR NO₂ Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO₂ 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 NO₂ source, CAIR SO₂ source, and CAIR NO₂ Ozone Season source (as applicable) or CAIR NO₂ unit, CAIR SO₂ unit, and CAIR NO₂ 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  Michael L. Menne

Signature  [Signature]

Date  January 8, 2014
STATEMENT OF BASIS

INSTALLATION DESCRIPTION
Ameren Missouri Meramec Energy Center is a power plant that converts energy from coal and other fuels to electrical energy. The installation has coal unloading, conveying, storage and pulverizing equipment to supply the boilers. Boilers 1 and 2 are dual fuel units with the ability to fire either coal or natural gas up to full load. These units are limited to firing natural gas in this permit. Boilers 3 and 4 are fueled primarily with coal but also burn natural gas for ignition, flame stabilization and supplemental load. Equipment for handling and disposing fly ash generated from the combustion of coal is on site. The facility also uses two combustion turbines to generate electricity. Both turbines burn No. 2 fuel oil but one turbine burns it only as a back-up while using natural gas as the primary fuel. There is an emergency generator and a black-start diesel engine on site as well. The installation is major for all criteria pollutants and is on the list of named-installations.

Updated Potential to Emit for the Installation

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<tr>
<th>Pollutant</th>
<th>Potential to Emit (tons/yr)¹</th>
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<tbody>
<tr>
<td>Particulate Matter ≤ Ten Microns (PM₁₀)</td>
<td>18,763</td>
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<td>Particulate Matter ≤ 2.5 Microns (PM₂.₅)</td>
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<td>Sulfur Oxides (SOx)</td>
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<td>Nitrogen Oxides (NOx)</td>
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<td>Volatile Organic Compounds</td>
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<td>Carbon Monoxide (CO)</td>
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<td>Hazardous Air Pollutants (HAP's)</td>
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<td>N-Hexane</td>
<td>51.99</td>
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<tr>
<td>Hydrogen Fluoride</td>
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¹Each emission unit was evaluated at 8,760 hours of uncontrolled annual operation unless otherwise noted. The emergency generator was evaluated at 500 hours per year. When two or more fuels are permitted, the fuel producing the highest PTE on a pollutant specific basis was used to calculate facility PTE. The PTE does not include fugitive emissions from fuel/liquid storage tanks.

Reported Air Pollutant Emissions, tons per year

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<tr>
<td>Particulate Matter ≤ Ten Microns (PM₁₀)</td>
<td>183.94</td>
<td>410.10</td>
<td>208.00</td>
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<td>Particulate Matter ≤ 2.5 Microns (PM₂.₅)</td>
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<td>156.71</td>
<td>79.52</td>
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<td>Sulfur Oxides (SOx)</td>
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<td>11,702.03</td>
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<td>Nitrogen Oxides (NOx)</td>
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<td>3,355.3</td>
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<td>Volatile Organic Compounds</td>
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<td>Carbon Monoxide (CO)</td>
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<td>1,504.0</td>
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<td>Hazardous Air Pollutants (HAP's)</td>
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<td>39.73</td>
<td>36.26</td>
<td>57.17</td>
<td>94.95</td>
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Ameren Missouri Meramec Energy Center  Part 70 Operating Permit  SB - 2
Installation ID: 189-0010  Project No. 2014-01-017

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 January 10, 2014; revised June 17, 2016;
2) 2015 Emissions Inventory Questionnaire, received April 25, 2016; and

Applicable Requirements Included in the Operating Permit but Not in the 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).

40 CFR Parts 70 and 97, *Cross State Air Pollution Rule*
10 CSR 10-6.372, *Cross-State Air Pollution Rule Annual NOx Trading Allowance Allocations*
10 CSR 10-6.374, *Cross-State Air Pollution Rule Ozone Season NOx Trading Allowance Allocations*
10 CSR 10-6.376, *Cross-State Air Pollution Rule Annual SO2 Trading Allowance Allocations*

10 CSR 10-6.261, *Control of Sulfur Dioxide Emissions*
This rule became effective November 30, 2015 and is applicable to the combustion sources at this facility.

Construction Permit History
The following construction permits have been issued by the St. Louis County Department of Health for this installation:

Permit Number 6743, Issued May 24, 2001
This permit authorized the construction of the Fly Ash Handling System, Filters and Baghouses. Special Conditions require the use of control devices on the filter separators, silos and truck unloading.

Permit Number 7261, Issued January 16, 2009
This permit authorized the operation of a Parts Washer.

Permit Number 6620, Issued May 5, 2000.
This permit authorized the construction of the Rail Car Unloading Pit with water spray dust suppression.

Permit Number 6595, Issued October 20, 1999
This permit authorized the construction of a 75 MW Natural Gas and Fuel Oil fired Combustion Turbine. Special Conditions limit the sulfur content of the fuel oil to 0.5% sulfur. NOx and SOx emissions are limited to 40 tons per year on a 12-month rolling average.

Permit Number 4568, Effective July 20, 1979, Modified September 30, 2008
This permit authorized the operation of the #3 coal boiler. Permit conditions limit the boiler to 0.12 lb PM per MMBtu of heat input, SO2 emissions to 2.3 lb per MMBtu of heat input and opacity to 20%.
This permit authorized the operation of the #4 coal boiler. Permit conditions limit the boiler to 0.12 lb PM per MMBtu of heat input, SO2 emissions to 2.3 lb per MMBtu of heat input and opacity to 20%.

Permit Number 4566 and 4567, Effective September 21, 1979, Modified September 30, 2008.
This permit authorized the operation of the #1 and #2 coal boilers. Permit conditions limit the boilers to 0.12 lb PM per MMBtu of heat input, SO2 emissions to 2.3 lb per MMBtu of heat input and opacity to 20%. These boilers have been limited to burning only natural gas in this operating permit. The SO2 limits were taken from the 10 CSR 10-6.260, Restriction of Emission of Sulfur Compounds which now includes an exemption for units that burn exclusively natural gas. Therefore the SO2 emission limits were not included in the operating permit for these units.

New Source Performance Standards (NSPS) Applicability
40 CFR Part 60 Subpart D, Standards of Performance for Fossil-Fuel Fired Steam Generators
This regulation does not apply to Boilers #1 through #4 because they were installed prior to the applicability date of August 17, 1971. Although Construction Permits 4566 and 4567 were reissued to the facility for these units to reflect the installation of Low NOx burners, this change does not meet the definition of modification included in 40 CFR Part 60 Subpart A which states: “Modification means any physical change in, or change in the method of operation of, an existing facility which increases the amount of any air pollutant (to which a standard applies) emitted into the atmosphere by that facility or which results in the emission of any air pollutant (to which a standard applies) into the atmosphere not previously emitted.”

40 CFR Part 60 Subpart Da, Standards of Performance for Electric Utility Steam Generating Units
This regulation does not apply to Boilers #1 through #4 because they were installed prior to the applicability date of September 18, 1978.

40 CFR Part 60 Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
This regulation does not apply to Boilers #1 through #4 because they were installed prior to the applicability date of June 19, 1984.

40 CFR Part 60 Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
This regulation does not apply to Boilers #1 through #4 because they were installed prior to the applicability date of June 9, 1989 they have a maximum heat input capacity greater than 100 MMBtu/hr.

40 CFR Part 60 Subparts K, Ka, Kb, Standards of Performance for Storage Vessels
All storage tanks, except the 1.5 million gallon diesel tank, exceeding 10,000 gallons storage capacity were installed prior to the applicability date of this subpart. The 1.5 million gallon diesel tank would be subject to Subpart K because of its size and date of installation, but diesel is not, by definition, a petroleum liquid.
40 CFR Part 60 Subpart GG, *Standards of Performance for Stationary Gas Turbines*

Combustion Turbine #1 was installed in 1972. Combustion turbine #2 was installed at this location in 1999. However, the turbine was manufactured prior to October 3, 1977, and is therefore exempt from the requirements of this subpart.

40 CFR Part 60 Subpart Y, *Standards of Performance for Coal Preparation Plants*

EU009A Coal Conveyors C10 and C43 are subject to this rule. These conveyors were constructed by authority of St. Louis County Permit #6621. The permit requires use of coal suppression whenever the units are in operation and Subpart Y requires meeting opacity limitations.

40 CFR Part 60 Subpart IIII, *Standards of Performance for Compression Ignition Internal Combustion Engines*

This regulation does not apply to EU005 Emergency Diesel Generator because it was constructed in 2004 which is prior to the applicability date (July 2005) of this subpart. It does apply to the emergency CT2 Black Start Diesel Generator which was constructed in June 2009. It does not apply to the Diesel Fire Pump because it was manufactured in 2001 which is prior to the applicability dates.

40 CFR Part 60 Subpart JJJJ, *Standards of Performance for Spark Ignition Internal Combustion Engines*

This regulation does not apply to the Black Start Diesel Generator or EU005 Emergency Diesel Generator because they are both compression ignition engines.

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


Emission Units EU001 and EU002 (Boilers 1 & 2) are not subject to this regulation as long as they combust only natural gas and remain natural gas fired EGUs as defined under 40 CFR 63 Subpart UUUUU. The MATS rule under 40 CFR 63.9983 lists natural gas fired EGUs like Meramec Units 1 & 2 as “not subject to this subpart”. In the preamble to that final rule, US EPA explained that the December 2000 decision to list EGUs did not include natural gas-fired EGUs in the listing under CAA 112(c). Further saying “this final rule does not regulate a unit that otherwise meets the CAA section 112(a)(8) definition of an EGU but that combusts natural gas exclusively or natural gas constitutes 90.0 percent or more of the average annual heat input during any 3 consecutive calendar years or 85.0 percent or more of the annual heat input in one calendar year.” (77 FR 9309) It is important to note that the CAA Section 112(a)(8) definition of an EGU defines “electric utility steam generating unit as “any fossil fuel fired combustion unit of more than 25 megawatts that serves a generator that produces electricity for sale…” Under this definition, and the definition of fossil fuel fired in the MATS rule, the Meramec Units 1 & 2 will be natural gas-fired EGUs as long as they are limited to natural gas combustion only and therefore will not be subject to regulation under the MATS rule.

Emission Units EU003 and EU004, Boilers 3 and 4 are subject to this regulation. Currently, Boilers 3 and 4 meet the definition of a coal-fired electric utility steam generating unit (EGU) within §63.10042. The boilers were originally constructed in 1956 and 1958, respectively, classifying them as existing coal-fired EGU and affected sources per §63.9982(a)(1). The boilers combust coal with a heat content in excess of 8,300 Btu/lb meeting the subcategory of non-low rank virgin coal in...
§63.9990(a)(1). The permittee shall be in compliance with 40 CFR Part 63, Subpart UUUUU by not later than April 16, 2016. On November 21, 2012, Ameren received approval from MDNR for a one-year extension of the compliance date for the federal Mercury and Air Toxics Standards (MATS) found in 40 CFR Part 63, Subpart UUUUU, therefore the approved compliance date for this facility is April 16, 2016.

Emission Units EU001 through EU004, Boilers 1 through 4 are not subject to this regulation because electric utility steam generating units covered by 40 CFR Part 63 Subpart UUUUU and natural gas fired EGUs as defined in Subpart UUUUU are not subject to Subpart DDDDD according to §63.7491(a).

40 CFR Part 63 Subpart JJJJJJ, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources
No units at this facility are subject to this regulation because it is not an area source of Hazardous Air Pollutant emissions.

40 CFR Part 63 Subpart YYYY, National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines
The stationary combustion turbines are subject to Subpart YYYY, but do not have to meet any requirements in accordance with 63.6090(a)(4):

“Existing stationary combustion turbines in all subcategories do not have to meet the requirements of this subpart and of subpart A of this part. No initial notification is necessary for any existing stationary combustion turbine, even if a new or reconstructed turbine in the same category would require an initial notification.”

EU005 Emergency Let Down Diesel Generator and the Emergency CT2 Black Start Diesel Generator are subject to this Subpart. According to §63.6590(b)(i) and (ii), because these units are new emergency/limited RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, they have no applicable requirements of this subpart and of Subpart A of Part 63, except for the initial notification requirements of §63.6645(f) as long as they meet the definition of an emergency engine in 40 CFR 63.6640. The diesel Fire Pump (290 hp; Manufactured 5/14/2001) is subject to this subpart as it is an existing engine < 500 hp at a major source of HAPs.

40 CFR Part 63 Subpart CCCCCC, Gasoline Dispensing Facilities, does not apply to this facility since Ameren is not an area source of HAPS according to the following definition from 40 CFR Part 63 Subpart A: “Area source means any stationary source of hazardous air pollutants that is not a major source as defined in this part.”
National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability
In the permit application and according to APCP records, there was no indication that any Missouri Air Conservation Law, Asbestos Abatement, 643.225 through 643.250; 10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants, Subpart M, National Standards for Asbestos; and 10 CSR 10-6.250, Asbestos Abatement Projects - Certification, Accreditation, and Business Exemption Requirements apply to this installation. The installation is subject to these regulations if they undertake any projects that deal with or involve any asbestos containing materials. None of the installation's operating projects underway at the time of this review deal with or involve asbestos containing material. Therefore, the above regulations were not cited in the operating permit. If the installation should undertake any construction or demolition projects in the future that deal with or involve any asbestos containing materials, the installation must follow all of the applicable requirements of the above rules related to that specific project.

Compliance Assurance Monitoring (CAM) Applicability
40 CFR Part 64, Compliance Assurance Monitoring (CAM)
The CAM rule applies to each pollutant specific emission unit that:
- Is subject to an emission limitation or standard, and
- Uses a control device to achieve compliance, and
- Has pre-control emissions that exceed or are equivalent to the major source threshold.

Based on the above criteria, Boilers #1 and #2 are not subject to CAM for particulate matter because although they are subject to an emission unit specific requirement (10 CSR 10-6.405), compliance is achieved without controls based on the units being limited to the combustion of natural gas. Boiler #1 and #2 are not subject to CAM for NOx, SO2, CO, or VOC because they are not subject to emission unit specific emission limits which require control of any of these pollutants using an add-on control device.

Boilers #3 and #4 are subject to a particulate matter limitation under 10 CSR 10-6.405, each has the uncontrolled PTE > 100 tpy of PM and utilizes an electrostatic precipitator as a control device to maintain compliance with the emission limit. These units are also subject to a more stringent particulate matter emission limit under 40 CFR Part 63 Subpart UU and use PM CEMS to demonstrate compliance. According to 40 CFR Part 64.2(b)(vi), emission limitations or standards for which the permit specifies a continuous compliance determination method are exempt, therefore CAM does not apply to these units as long as they are required to maintain and operate the PM CEMs.

EU005, EU005A, EU005B, EU006, and EU 006A/B are not subject to CAM for NOx, SO2, CO, or VOC because they do not have an uncontrolled PTE > 100 tpy of these pollutants and they are not subject to emission unit specific emission limits which require control of any of these pollutants using an add-on control device.

CAM does not apply to EU009 or EU010 for particulate matter because although these units are subject to a limitation for particulate matter under 10 CSR 10-6.400, and have an uncontrolled PTE of > 100 tpy of particulate matter, the use of enclosures are not control devices under the definition of that term in 40 CFR 64.1 because these are passive control measures that act to prevent pollutants from forming. The use of dust suppression is not required for compliance with the process weight rate limitation.
CAM does not apply to EU015 for particulate matter because this unit is not subject to a limitation for particulate matter. In addition, the fabric filter is an inherent process control device designed to capture the pneumatically conveyed materials. This types of process controls are not control devices as defined by 40 CFR 64.1 because they are used for material recovery (See US EPA FAQ for CAM rule (camfaq1r1004.pdf)).

**Greenhouse Gas Emissions**
Note that this source is subject to the Greenhouse Gas Reporting Rule. However, the preamble of the GHG Reporting Rule clarifies that Part 98 requirements do not have to be incorporated in Part 70 permits operating permits at this time. In addition, Missouri regulations do not require the installation to report CO₂ emissions in their Missouri Emissions Inventory Questionnaire; therefore, the installation’s CO₂ emissions were not included within this permit. The applicant is required to report the data directly to EPA. The public may obtain CO₂ emissions data for this installation by visiting http://epa.gov/ghgreporting/ghgdata/reportingdatasets.html.

**Other Regulatory Determinations**
10 CSR 10-6.362, Clean Air Interstate Rule Annual NOx Trading Program
10 CSR 10-6.364, Clean Air Interstate Rule Seasonal NOx Trading Program
10 CSR 10-6.266, Clean Air Interstate Rule SO2 Trading Program
The Clean Air Interstate Rule (CAIR) has recently been replaced by the Cross State Air Pollution Rule (CSAPR), however a CAIR Permit is being issued to Ameren Missouri Meramec Energy Center because the CAIR regulations have not been removed from the Missouri State Implementation Plan (SIP) at this time. Once the CAIR regulations are removed from the SIP, the CAIR permit can be removed from the operating permit. Meramec Energy Center is not required to hold CAIR allowances and therefore no violation of CAIR is possible.

10 CSR 10-6.260, Restriction of Emission of Sulfur Compounds
10 CSR 10-6.260 was rescinded from the Missouri Code of State Regulations Rules on November 30, 2015, however it has not been removed from the State Implementation Plan (SIP) as of the issuance of this operating permit. This rule will remain in the operating permit until it is removed from the SIP. This regulation does not apply to Boiler 1 and Boiler 2 (EU001 and EU002) because they burn only natural gas and are exempt per 10 CSR 10-6.260(1)2.

10 CSR 10-6.405, Restriction of Particulate Matter Emissions from Fuel Burning Equipment Used for Indirect Heating
Although this rule applies to Boiler 1 and Boiler 2 (EU001 and EU002) they are not included in Permit Condition 9 within the operating permit because they burn natural gas and are thus deemed to be in compliance with the regulation per 10 CSR 10-6.405(1)(C).

10 CSR 10-6.400, Restriction of Particulate Matter Emissions from Industrial Processes
This regulation applies to EU009 Coal Transfer and Conveying and EU010 Coal Rail Unloading. These units use enclosures and a water/chemical dust suppressant system to control emissions of particulate matter during the unloading, transfer and conveying of coal. The following equation for process weight rates of 60,000 lb/hour or greater was used to determine the lb/hr limit for these units:
E = \frac{55.0}{(P)^{0.11-40}}

Where:
\begin{align*}
E &= \text{rate of emission in lb/hr} \\
P &= 1000 \text{ tons/hr}
\end{align*}

\begin{align*}
E &= \frac{55.0(1000)^{0.11-40}}{} \\
&= 77.6 \text{ lb/hr}
\end{align*}

Uncontrolled potential to emit for these units is 1000 lb/hr x 0.1 lb/ton (PM\textsubscript{10} emission factor) = 100 lb/hr, which is greater than the emission limit. Therefore, these units must use the water/chemical dust suppressant system at all times to insure compliance with the particulate matter limit therefore monitoring and recordkeeping is required for the control system.

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

MO DNR has proposed and is expected to finalize a permanent exemption from the opacity requirements of this rule for all units which use PM CEMs to monitor compliance with the alternative PM limit in the MATS rule as well as units firing natural gas exclusively.

On May 26, 2016, the Missouri Air Conservation Commission granted Meramec Energy Center a variance from the requirements of the 10 CSR 10-6.220 for the units for Meramec Energy Center Units 3 & 4 which utilize PM CEMs for monitoring compliance with the alternative PM limit in the MATS rule. The variance granted by MACC will stay in effect until the changes to 10 CSR 6.220 are finalized.

Units 1 & 2 were not granted a variance but are limited to firing of natural gas in this permit. As a result, Units 1 & 2 will not be subject to the opacity limitations under 10 CSR 10-6.220 once the proposed changes to that rule are finalized.

The proposed revised rule which is expected to be finalized prior to issuance of this operating permit renewal also includes an exemption for fugitive sources, therefore it is not being applied to emission units EU009 and EU010 within the operating permit. Emissions from these units are subject to 10 CSR 10-6.170 and will be observed at the property boundary.

**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 APCP'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 APCP a schedule for achieving compliance for that regulation(s).
Response to Public Comments

The draft Part 70 Operating Permit for Ameren Missouri Meramec Energy Center (189-0010) was placed on public notice as of October 4, 2016 for a 30-day comment period. The public notice was published on the Department of Natural Resources’ Air Pollution Control Program’s web page at: http://www.dnr.mo.gov/env/apcp/PermitPublicNotices.htm. On November 3, the Air Pollution Control Program received comments from Michael Hutcheson and on October 21, one comment was received via email from Stave Halm. The comments are addressed below in the order in which they appear within the letter.

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Comment #1 (From Mike Hutcheson): Compliance with the 0.12 lbs per MMBtu particulate matter limit of 10 CSR 10-6.405 (Condition 9 of the draft permit) is determined based on an annual averaging period (10 CSR 10-6.405(4)(C)). This rule is therefore less restrictive than the particulate matter control requirements of 40 CFR 63 Subpart UUUUU (Condition 8) which has a lower particulate matter limit (0.03 lb/MMBtu) with a shorter averaging period (rolling 30 day average). Consequently, Ameren requests that 10 CSR 10-6.405 (Condition 9) be streamlined and removed from the permit as compliance with 40 CFR 63 Subpart UUUUU assures compliance with 10 CSR 10-6.405.

Response to Comment: MDNR agrees with the request to streamline the permit. The limits from 10 CSR 10-6.405 (Condition 9 of the draft permit) remain in the permit, however all monitoring, recordkeeping and reporting have been removed because the monitoring, recordkeeping and reporting requirements of Permit Condition 8 ensure compliance. These units are no longer subject to Compliance Assurance Monitoring and the CAM plan has also been removed from the permit condition. An explanation of the changes has been added to the statement of basis.

Comment #2 (From Mike Hutcheson): Ameren believes that MDNR has the requisite authority to interpret its own rules in any manner consistent with the language of the rule and the underlying rule development. Specifically, with regard to 10 CSR 10-6.261, Control of Sulfur Dioxide Emissions, the MDNR Air Pollution Control Program should interpret the sulfur dioxide emission limits in 6.261 as they apply to the Meramec Energy Center in a manner consistent with the underlying rule development. As we have discussed with APCP staff, the modeling underlying the development of the facility SO2 emission limits listed in Table 1 of 6.261 was based on emissions data solely from the steam electric generating units at the Meramec Energy Center. The other SO2 emission sources at the energy center were also included in the APCP staff analysis in addition to the steam electric generating unit emissions listed in Table 1 of 6.261. Based on this modeling demonstration underlying the development of the 6.261 Table 1 limits, Ameren believes the Table 1 limit for Meramec Energy Center applies only to the steam electric generating units: EU001 Boiler 1, EU002 Boiler 2, EU003 Boiler 3 and EU004 Boiler 4. The other SO2 emission sources at the facility that include the following emission units: EU005 Emergency Let Down Diesel Generator, EU005a Emergency CT2 Black Start Diesel Generator, EU005b Diesel Fire Pump, EU006 Combustion Turbine 1, EU006A/B Combustion Turbine 2, have SO2 emission limitations that are already addressed by the operating permit. Ameren believes that the MDNR APCP has the authority to interpret that the SO2 emission limitation listed in Table 1, as well as
the monitoring requirement in the footnote to Table 1, applies only to the steam electric generating units. The proposed draft operating permit indicates that the APCP decided that they do not have the authority to incorporate this interpretation in the operating permit. Ameren suggests that the permit be revised to indicate that the SO$_2$ emission limitation and monitoring requirements included in 6.621 Table 1 apply only to the steam electric generating units at the Meramec Energy Center and to supplement the statement of basis to reflect that this determination was made on the basis of a review of the record for the development of 10 CSR 10-6.261.

**Response to Comment:** APCP explored the possibility of interpreting 10 CSR 10-6.261 as Ameren requested however the conclusion reached was that APCP does not have the authority to interpret the rule other than the way it is currently written in the state statutes. After discussing the issue with both the Compliance/Enforcement Section and the Planning Section it was determined that the best option is for Ameren to submit a request for a rule variance that will be presented to the Air Conservation Commission for approval. When the rule variance is approved the rule may be amended to clarify that only the steam electric generating units should be included in the SO$_2$ emission limit from Table 1 of the rule, which was the original intent.

**Comment #2 (From Mike Hutcheson):** You can taste coal in your mouth by the Oakville power plant and see coal dust everywhere

**Response to Comment:** While coal handling activities at a large power plant may result in the presence of coal dust around the site it should not be found off the facility property, nor should you be able to taste it. The operating permit includes all relevant regulations to prevent a situation such as this including 10 CSR 10-6.400, 10 CSR 10-6.220 and 10 CSR 10-6.170 and 40 CFR Part 60 Subpart Y. The Compliance/Enforcement Section has been notified of the complaint.
Mr. Ajay Arora  
Ameren Missouri Meramec Energy Center  
8200 Fine Road  
St. Louis, MO 63129  

Re: Ameren Missouri Meramec Energy Center, 189-0010  
Permit Number: OP2016-040  

Dear Mr. Arora:

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

This permit may include requirements with which you may not be familiar. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at http://dnr.mo.gov/regions/. The online CAV request can be found at http://dnr.mo.gov/cav/compliance.htm.

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 contact the Air Pollution Control Program (APCP) at (573) 751-4817, or you may write to the Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

[Signature]
Michael J. Stansfield, P.E.  
Operating Permit Unit Chief

PJW:jwj

Enclosures

c: PAMS File: 2014-01-017