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: OP2018-053
Expiration Date: JUN 20 2023
Installation ID: 097-0062
Project Number: 2015-01-035

Installation Name and Address
Empire Energy Center
2537 Fir Road
Joplin, MO 64862
Jasper County

Parent Company's Name and Address
Empire District Electric Company
P.O. Box 127
Joplin MO, 64802

Installation Description:
The Energy Center consists of two simple-cycle combustion turbines with an electrical output capacity of 90 MW each and two Twin Pac combustion turbine units consisting of two turbines coupled to a single electrical generator with an electrical output capacity of 55 MW per Twin Pac. All units may be fired with either natural gas or distillate fuel oil (#1, #2, jet A). Other stationary sources of emissions include an emergency fire pump and fuel oil storage tanks. The facility is major for PM10, PM2.5, CO, NOx, SOx and VOC. Units are subject to 40 CFR Part 60 Subpart GG and 40 CFR Part 63 Subpart ZZZZ.

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

Director or Designee
Department of Natural Resources

JUN 20 2018
Effective Date
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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION
The Energy Center consists of two simple-cycle combustion turbines with an electrical output capacity of 90 MW each and two Twin Pac combustion turbine units consisting of two turbines coupled to a single electrical generator with an electrical output capacity of 55 MW per Twin Pac. All units may be fired with either natural gas or distillate fuel oil (#1, #2, jet A). Other stationary sources of emissions include an emergency fire pump and fuel oil storage tanks. The facility is major for PM$_{10}$, PM$_{2.5}$, CO, NO$_x$, SO$_x$ and VOC. Units are subject to 40 CFR Part 60 Subpart GG and 40 CFR Part 63 Subpart ZZZZ. This facility is a named source therefore fugitive emissions are included in the potential-to-emit.

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate Matter</td>
<td>9.76</td>
<td>4.18</td>
<td>3.55</td>
<td>4.6</td>
<td>1.42</td>
</tr>
<tr>
<td>≤ Ten Microns (PM$_{10}$)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Particulate Matter</td>
<td>9.76</td>
<td>4.18</td>
<td>3.55</td>
<td>4.59</td>
<td>1.42</td>
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<tr>
<td>≤ 2.5 Microns (PM$_{2.5}$)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Sulfur Oxides (SO$_x$)</td>
<td>0.01</td>
<td>0.35</td>
<td>0.30</td>
<td>1.5</td>
<td>---</td>
</tr>
<tr>
<td>Nitrogen Oxides (NO$_x$)</td>
<td>141.16</td>
<td>55.69</td>
<td>59.17</td>
<td>68.65</td>
<td>26.30</td>
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<tr>
<td>Volatile Organic Compounds(VOC)</td>
<td>4.27</td>
<td>2.50</td>
<td>2.74</td>
<td>7.13</td>
<td>0.45</td>
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<tr>
<td>Carbon Monoxide (CO)</td>
<td>24.18</td>
<td>9.72</td>
<td>8.32</td>
<td>9.84</td>
<td>2.61</td>
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<tr>
<td>Hazardous Air Pollutants (HAPs)</td>
<td>1.45</td>
<td>0.60</td>
<td>0.58</td>
<td>0.67</td>
<td>0.33</td>
</tr>
</tbody>
</table>

EMISSION UNITS WITH SPECIFIC 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>EP4</td>
<td>Turbine 1</td>
</tr>
<tr>
<td>EP5</td>
<td>Turbine 2</td>
</tr>
<tr>
<td>EP6</td>
<td>Turbine 3A</td>
</tr>
<tr>
<td>EP7</td>
<td>Turbine 3B</td>
</tr>
<tr>
<td>EP8</td>
<td>Turbine 4A</td>
</tr>
<tr>
<td>EP9</td>
<td>Turbine 4B</td>
</tr>
<tr>
<td>EP10</td>
<td>Emergency Fire Pump</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>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP1</td>
<td>Truck Fuel Oil Unloading</td>
</tr>
<tr>
<td>EP2</td>
<td>5,250,000 gallon distillate fuel storage tank, installed 1978</td>
</tr>
<tr>
<td>EP3</td>
<td>420,000 gallon distillate fuel day tank 1, installed 1978</td>
</tr>
<tr>
<td>EP11</td>
<td>180,000 gallon distillate fuel day tank 2, installed 2002</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 or Emission Units without Limitations.

There are no plant-wide emission limitations that apply to this facility.
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 001
10 CSR 10-6.060 Construction Permits Required
Construction Permit 0181-EPA, Issued January 7, 1981 by EPA

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP5</td>
<td>Turbine 2: Simple cycle distillate fuel oil and natural gas electric generating turbine; installed 1981; manufacturer/model no: Westinghouse 501D</td>
</tr>
</tbody>
</table>

Note
This permit condition only applies to Turbine 2, installed in 1981, when fuel oil is being used.

**Emission Limitations:**
1) The permittee shall not cause to be discharged into the atmosphere from Turbine 2:
   a) Nitrogen Oxides (NOx) in excess of 230 parts per million (ppmv) instantaneous not to be exceeded corrected to 15% oxygen on a dry basis, excluding periods of startup, shutdown, or malfunction.
   b) Carbon Monoxide (CO) at an emission rate greater than 56 pounds per hour. [Special Condition No. 3]

**Operation Limitation:**
1) The permittee shall not burn any fuel which contains sulfur in excess of 0.8 percent by weight in Turbine 2. [Special Condition No. 4]

**Monitoring/Recordkeeping:**
1) The permittee shall monitor the sulfur content of the distillate fuel oil being fired in accordance with 40 CFR 60.334(b). Reports are to be submitted in accordance with 40 CFR 60.7(c). Excess sulfur is defined in 40 CFR 60.334 as any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent by weight. [Special Condition No. 6]
2) The permittee shall monitor the total sulfur content of the fuel oil being fired in Turbine 2 (EP5). The sulfur content of the fuel must be determined using total sulfur methods described in §60.335(b)(10) as listed below. [§60.334(h)(1)]
   a) Analyze the samples for the total sulfur content of the distillate fuel oil using ASTM D129–00, D2622–98, D4294–02, D1266–98, D5453–00 or D1552–01 (all of which are incorporated by reference, see §60.17). [§60.335(b)(10)]
3) The frequency of determining the sulfur content of the distillate fuel oil shall use one of the total sulfur sampling options and the associated sampling frequency described in sections 2.2.3, 2.2.4.1, 2.2.4.2, and 2.2.4.3 of appendix D to part 75 of chapter 40 (i.e., flow proportional sampling, daily
Empire Energy Center
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Project No. 2015-01-035

sampling, sampling from the unit's storage tank after each addition of fuel to the tank, or sampling each delivery prior to combining it with fuel oil already in the intended storage tank).  
[§60.334(i)(1)]

**Reporting:**
1) The permittee shall report any exceedance of any of the terms imposed by this permit, or any malfunction which could cause an exceedance of any of the terms imposed by this permit, no later than ten days after the exceedance or event causing the exceedance (unless otherwise specified in the specific condition).
2) The permittee shall report any deviations from the monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification.
3) All reports and certifications shall be submitted to the Air Pollution Control Program’s Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.

**PERMIT CONDITION 002**
10 CSR 10-6.060 Construction Permits Required
Construction Permit 0395-015, Issued February 28, 1995

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP5</td>
<td>Turbine 2: Simple cycle distillate fuel oil and natural gas electric generating turbine; installed 1981; manufacturer/model no: Westinghouse 501D</td>
</tr>
<tr>
<td>EP4</td>
<td>Turbine 1: Simple cycle distillate fuel oil and natural gas electric generating turbine; installed 1978; manufacturer/model no: Westinghouse 501D</td>
</tr>
</tbody>
</table>

**Emission Limitation:**
1) Best Available Control Technology for the emissions of nitrogen oxides from the operation of each of these turbines at all load conditions is set at 42 parts per million (ppm) by volume, one hour rolling average, corrected to fifteen (15) percent oxygen (O2) on a dry basis when burning natural gas, except during periods of startup, shutdown, or malfunction. This shall be achieved using water injection. [Special Condition No. 1]
2) The permittee is exempt from Emission Limitation No. 1 when the ice fog is deemed a traffic hazard by the owner or operator of the turbine. “Ice Fog” is defined as an atmospheric suspension of highly reflective ice crystals. [Special Condition No. 10]

**Operation Limitation:**
1) The hours of operation from each turbine shall not total more than 5,000 hours of natural gas operation per 12-month period. This operating restriction is established on a rolling monthly basis, with the end of each month establishing a new yearly period. [Special Condition No. 2]
2) No fuels other than natural gas or distillate fuel oils shall be combusted in the turbines at any time. [Special Condition No. 3]
3) The permittee shall apply to the Air Pollution Control Program's Enforcement Section for an exemption from using water injection as stated in Emission Limitation 1, during periods of drought. [Special Condition No. 11]

**Monitoring/Recordkeeping:**

1) Records shall be kept on site which details the number of hours each turbine is operated, on a per-month basis. This information shall be made immediately available for inspection to the Department of Natural Resources' personnel upon verbal request. In order to facilitate compliance with this condition, suitable instruments shall be installed, and maintained in operable condition, that will record the total number of hours each turbine is in operation. [Special Condition No. 2] Attachment A or equivalent form of the company's own design can be used to track the hours per month and 12-month rolling total of hours each turbine was operated.

2) The permittee shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbines. This system shall be accurate to within a ±5 percent, and shall be approved by the Air Pollution Control Program Director. These records shall be kept on-site for a period of at least five years, and shall be made available to Department personnel during any site inspection. Excess emissions shall be reported to the department on a quarterly basis. [Special Condition No. 4]

3) At least every 12 months, the permittee shall obtain from the natural gas vendor the typical sulfur content weight percent and keep this information on site. [Special Condition No. 5]

**Reporting:**

1) The notification and recordkeeping requirements of 40 CFR 60.7(c) shall be adhered to as they pertain to 40 CFR 60.334(j). Briefly, this requires that quarterly reports to be submitted to the Director, within 30 days after the end of each quarter, detailing any exceedances of applicable emission limits. [Special Condition No. 6]

2) The permittee shall maintain for five years any compliance test reports of quality assurance checks for the monitoring system. [Special Condition No 15]

3) The permittee shall report promptly any deviations from permit requirements, including those attributable to upsets, and the report shall include the cause of such deviations and any corrective actions or preventative measures taken. Corrective actions may include a requirement for additional stack testing, or more frequent monitoring, or could trigger implementation of a corrective action plan. [Special Condition No 16].

4) Shutdown. The permittee shall notify the director at least 24 hours in advance of the shutdown of any control equipment and, if the shutdown would cause an increase in emission of air contaminants over permitted limits, of a shutdown of any process equipment. At the time of notification, the permittee shall also notify the director of the cause of the shutdown and the estimated duration. The permittee shall notify the director when the shutdown is over. [Special Condition No. 17]

5) Breakdown. The permittee shall notify the director as soon as practicable of a breakdown of more than one hour duration of any control equipment and, if the breakdown causes an increase in the emission of air contaminants, of a breakdown of any process equipment. At the time of notification or as soon thereafter as possible, the permittee shall also notify the director of the cause of the breakdown and the estimated duration. The permittee shall notify the director when the breakdown is over. [Special Condition No. 18]
6) Operation changes. In any shutdown or breakdown the permittee shall as soon as practicable take all practical steps to modify operations to reduce the emission of air contaminants. The director may require feasible and practical modifications in the operation to reduce emissions of air contaminants. [Special Condition No. 19]

7) The permittee shall report any exceedance of any of the terms imposed by this permit, or any malfunction which could cause an exceedance of any of the terms imposed by this permit, no later than ten days after the exceedance or event causing the exceedance (unless otherwise specified in the specific condition).

8) The permittee shall report any deviations from the monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification.

9) All reports and certifications shall be submitted to the Air Pollution Control Program's Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.

<table>
<thead>
<tr>
<th>PERMIT CONDITION 003</th>
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<tbody>
<tr>
<td>10 CSR 10-6.261 Control of Sulfur Dioxide Emissions¹</td>
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</table>

**Turbine 1**

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP4</td>
<td>Turbine 1: Simple cycle distillate fuel oil and natural gas electric generating turbine; installed 1978; manufacturer/model no: Westinghouse 501D</td>
</tr>
</tbody>
</table>

**Emission Limitation:**

1) Emissions from any new source operation shall not contain more than 8,812 parts per million (ppm\textsubscript{w}) of sulfur content for distillate fuel.

**Monitoring/Recordkeeping:**

1) The permittee shall determine compliance using fuel delivery records, fuel sampling and analysis, performance tests, continuous emission monitoring, or other compliance methods approved by the staff director and the U.S. Environmental Protection agency and incorporated into the state implementation plan.

2) The permittee must report any excess emissions other than startup, shutdown and malfunction excess emissions to the staff 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;

¹ This regulation has not yet been adopted into Missouri's SIP; therefore, this regulation is a state only requirement. Upon adoption into Missouri's SIP, this regulation will be both a state and federal requirement.
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.

3) 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 emissions.
4) The permittee must maintain a record of data, calculations, results, records and reports from any performance test, continuous emission monitoring, fuel deliveries, and/or fuel sampling tests.
5) The permittee must maintain a record of any applicable monitoring data, performance evaluations, calibration checks, monitoring system and device performance tests, and any adjustments and maintenance performed on these systems or devices.
6) The permittee of sources using fuel delivery records for compliance must also maintain the fuel supplier certification information to certify all fuel deliveries. Bills of lading and/or other fuel deliver documentation containing the following information for all fuel purchases or deliveries are deemed acceptable to comply with the requirements of this rule:
   a) The name, address, and contact information of the fuel supplier;
   b) The type of fuel;
   c) The sulfur content or maximum sulfur content expressed in percent sulfur by weight or in ppm sulfur; and
   d) The heating value of the fuel.
7) The permittee of sources using fuel sampling and analysis for compliance must also follow the requirements in 10 CSR 10-6.261(5)(D).
8) The permittee of sources using performance testing for compliance must also follow the requirements in 10 CSR 10-6.261(5)(A)
9) All required reports and records 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.
10) The permittee must furnish the director all data necessary to determine compliance status.

Reporting:
1) The permittee shall report any exceedance of any of the terms imposed by this permit, or any malfunction which could cause an exceedance of any of the terms imposed by this permit, no later than ten days after the exceedance or event causing the exceedance (unless otherwise specified in the specific condition).
2) The permittee shall report any deviations from the monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification.
3) All reports and certifications shall be submitted to the Air Pollution Control Program’s Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.
PERMIT CONDITION 004
10 CSR 10-6.060 Construction Permits Required
Construction Permit No. 112002-009, Issued July 25, 2002 and amended February 17, 2004

Turbines 3A, 3B, 4A and 4B and Emergency Fire Pump

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP6</td>
<td>Turbine 3A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP7</td>
<td>Turbine 3B: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP8</td>
<td>Turbine 4A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP9</td>
<td>Turbine 4B: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP10</td>
<td>360 horsepower emergency fire pump; installed 2003; manufacturer/model no.: Patterson/JU6HUF50</td>
</tr>
</tbody>
</table>

Operation Limitation:
1) Except during periods of start up and shutdown the permittee is limited to 3,300 hours for each of the four Pratt and Whitney turbines in any consecutive 12 month period. This is based on natural gas being the main fuel combusted. Empire District may combust distillate fuel oil for up to 500 of the 3,300 hours of operation. [Special Condition No. 1.A.1]
2) If the permittee wishes to use another type of fuel, increase the number of hours in which distillate fuel oil can be combusted, or increase the hours of operation limitation, the BACT analysis and ambient air quality will need to be reevaluated. [Special Condition No. 1.A.2 and 3]
3) Except during periods of startup and shutdown the permittee shall limit the total hours of operation for the four Pratt and Whitney turbines to less than 5,000 concurrent hours in any consecutive 12-month period. [Special Condition No. 1.B] If multiple units were to be run for one (1) hour, this would be considered one (1) concurrent hour. If a single unit were to be run for one (1) hour, this too would be considered one (1) concurrent hour.
4) The permittee shall only operational test the emergency fire water pump between the hours of 1:00 p.m. and 5:00 p.m. and shall limit the total hours of operation to less than 300 hours in any consecutive 12-month period. [Special Condition No. 1.C]
5) Except during periods of start-up and shutdown, the permittee shall limit Nitrogen Oxide (NOx) emissions from each of the Pratt & Whitney turbines (emission points EP6, EP7, EP8, and EP9) when burning natural gas to 25 parts per million by volume (ppm, v) corrected to 15 percent (%o) oxygen on a dry basis for a three (3) hour rolling average. [Permit 112002-009, Special Condition 2.A]
6) Except during periods of start-up and shutdown, the permittee shall limit NOx emissions from each of the Pratt & Whitney turbines (emission points EP6, EP7, EP8, and EP9) when burning distillate fuel oil to 42 ppm, v corrected to 15% oxygen on a dry basis for a three (3) hour rolling average. [Permit 112002-009, Special Condition 2.B]

Monitoring/Record Keeping:
1) The permittee shall keep monthly and the sum of the most recent 12-month records that are adequate to determine compliance with operation limitation 1 (individual turbine hours of operation).
Attachment A, *Individual Turbine Operational Schedule*, or an equivalent form of the company’s own design, is suitable for this purpose. The most recent 60 months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources’ personnel upon request. [Permit 112002-009, Special Condition 5.A and 5.B]

2) The permittee shall keep monthly, and the sum of the most recent 12-months records that are adequate to determine compliance with operation limitation 3. (total installation concurrent hours of operation). Attachment C, *Operational Schedule of the Four Pratt & Whitney Turbines*, or an equivalent form of the company’s own design, is suitable for this purpose. The most recent 60 months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources’ personnel upon request. [Permit 112002-009, Condition 5.C]

3) The permittee shall keep monthly and the sum of the most recent 12-months records that are adequate to determine compliance with operation limitation 4 (emergency fire water pump hours of operation). Attachment D, *Emergency Fire Water Pump Operational Schedule*, or an equivalent form of the company’s own design, is suitable for this purpose. The most recent 60 months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources’ personnel upon request. [Permit 112002-009, Special Condition 5.G]

**Reporting:**

1) The permittee shall report to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten (10) days after the end of each month if the 12-month cumulative total records (Attachment A) show that the source exceeded operation limitation number one of 3,300 hours of operation per turbine. [Permit 112002-009, Special Condition 6.A]

2) The permittee shall report to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten (10) days after the end of each month if the 12-month cumulative total records (Attachment A) show that the source exceeded the operation limitation of 500 hours of operation per turbine for fuel oil. [Permit 112002-009, Special Condition 6.B]

3) The permittee shall report to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten (10) days after the end of each month if the 12-month cumulative total records (Attachment C) show that the source exceeded the operation limitation of 5,000 concurrent hours of operation. [Permit 112002-009, Special Condition 6.C]

4) The permittee shall report to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten (10) days after the end of each month if the 12-month cumulative total records (Attachment D) show that the source exceeded the emission limitation of 300 hours of operation for the emergency fire water pump. [Permit 112002-009, Special Condition 6.G]

a) The permittee shall submit reports of excess emissions and monitor downtime, using 60.7(c) as a reference standard. All excess emissions shall be defined and reported in accordance with the applicable emissions limit as stated above [Emission Limitations, 5 and 6]. If cause for excess is known, an exemption may be made such as those listed in 10 CSR 10-6.050 *Start-Up, Shutdown, and Malfunction Conditions.* For the purpose of reports required under 60.7 (c), periods of excess emissions and monitor downtime that shall be reported are defined as follows:

i) An hour of excess emissions shall be any unit operating hour in which the three (3) hour rolling average NOx concentration exceeds the applicable emission limit as stated above.
[Emission Limitations, 5 and 6]. A three (3) hour rolling average NOx concentration is the arithmetic average of the NOx concentration measured by the CEMS for a given hour (corrected to 15 percent O2) and the two (2) average NOx concentration hours immediately preceding that unit operating hour. The hours used to determine the rolling average will be unit operating hours, excluding start-up and shutdown, and are not required to be consecutive.

ii) A period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour, for either NOx concentration or diluent (or both). Note: monitor downtime mandated by Part 75 measures is excluded for consideration.

iii) Each report shall include the ambient conditions (temperature, pressure, and humidity) at the time of the excess emission period and (if the owner or operator has claimed an emission allowance for fuel bound nitrogen) the nitrogen content of the fuel during the period of excess emissions. You do not have to report ambient conditions if you opt to use the worst case ISO correction factor as specified in §60.334(b)(3)(ii), or if you are not using the ISO correction equation under the provisions of §60.335(b)(1).

b) Ice fog. Each period during which an exemption provided in §60.332(f) is in effect shall be reported in writing to the Administrator quarterly. For each period the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated shall be reported. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. [§60.334(j)(3)]

c) All reports required under §60.7(c) shall be postmarked by the 30th day following the end of each 6-month period. [§60.334(j)(5)]

5) The permittee shall report to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten (10) after the end of the month, in which performance testing has been performed and indicates non-compliance with Emission Limitation Numbers 5 and 6. [Permit 112002-009, Condition 6.L]

6) The permittee shall report any exceedance of any of the terms imposed by this permit, or any malfunction which could cause an exceedance of any of the terms imposed by this permit, no later than ten days after the exceedance or event causing the exceedance (unless otherwise specified in the specific condition).

7) The permittee shall report any deviations from the monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification.

8) All reports and certifications shall be submitted to the Air Pollution Control Program’s Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.
Turbines 3A, 3B, 4A and 4B

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
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<tr>
<td>EP6</td>
<td>Turbine 3A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP7</td>
<td>Turbine 3B: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
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<td>EP8</td>
<td>Turbine 4A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP9</td>
<td>Turbine 4B: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
</tbody>
</table>

Note: The NOx emission limit of 40 CFR Part 60 Subpart GG §60.332(a)(1) is less stringent than the NOx emission limit of Construction Permit 112002-009. Therefore, the §60.332(a)(1) emission limit is not listed as a permit condition to these units. Compliance with the BACT limits of Construction Permit 112002-009 will assure compliance with the limits of §60.332(a)(1).

Standards for Nitrogen Oxides (NOx)

Emission Limitations:
The permittee shall not discharge into the atmosphere in any day (12:00 a.m. to 12:00 a.m.), more than 3,708 pounds of NOx from the four (4) Pratt & Whitney turbines (emission units EP6, EP7, EP8, and EP9) combined. [Permit 112002-009A, Special Condition 2.C]

Monitoring:
1) The permittee shall install, calibrate, maintain, and operate CEMS, and record the output of the systems, for measuring NOx emissions discharged into the atmosphere. These systems shall be placed in an appropriate location on each combustion turbine's flue gas exhaust such that accurate readings are possible. [Permit 112002-009, Special Condition 4.A]
2) The permittee shall install, calibrate, maintain, and operate a CEMS, and record the output of the systems, for measuring the oxygen (O2) content of the flue gases at each location where NOx emissions are monitored. The O2 content of the flue gases may be determined by use of either an O2 CEMS or a CO2 CEMS. If the permittee elects to use a CO2 CEMS, the conversion process in EPA Method 20 must be used to correct the NOx concentrations to 15% O2. [Permit 112002-009, Special Condition 4.B]
3) The CEMS required by Monitoring Condition Number 1 shall be installed and operated according to the guidelines in 40 CFR Part 75 for the NOx and diluent CEMS requirements. [Permit 112002-009, Condition 4.C; §60.334(b)]
4) The CEMS required by Monitoring Condition Number 2 shall be installed and operated according to the guidelines in 40 CFR §60.13, Monitoring requirements; in 40 CFR Part 60 Appendix B, Performance Specification 3 - Specifications and test procedures of O2 and CO2 Continuous Emission Monitoring Systems in Stationary Sources; and in 40 CFR Appendix F, Quality Assurance Procedures. [Permit 112002-009, Special Condition 4.D; §60.334(b)]
   a) Each CEMS must be installed and certified according to PS 2 and 3 (for diluent) of 40 CFR Part 60, Appendix B, except the 7-day calibration drift is based on unit operating days, not calendar days. Appendix F, Procedure 1 is not required. The relative accuracy test audit (RATA) of the NOx and diluent monitors may be performed individually or on a combined basis, i.e., the relative accuracy tests of the CEMS may be performed either: [§60.334(b)(1)]
i) On a ppm basis (for NO\textsubscript{x}) and a percent O\textsubscript{2} basis for oxygen; or [§60.334(b)(1)(i)]

ii) On a ppm at 15 percent O\textsubscript{2} basis; or [§60.334(b)(1)(ii)]

iii) On a ppm basis (for NO\textsubscript{x}) and a percent CO\textsubscript{2} basis (for a CO\textsubscript{2} monitor that uses the procedures in Method 20 to correct the NO\textsubscript{x} data to 15 percent O\textsubscript{2}). [§60.334(b)(1)(iii)]

b) As specified in §60.13(e)(2), during each full unit operating hour, each monitor must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour, to validate the hour. For partial unit operating hours, at least one valid data point must be obtained for each quadrant of the hour in which the unit operates. For unit operating hours in which required quality assurance and maintenance activities are performed on the CEMS, a minimum of two valid data points (one in each of two quadrants) are required to validate the hour. [§60.334(b)(2)]

c) For purposes of identifying excess emissions, CEMS data must be reduced to hourly averages as specified in §60.13(h). [§60.334(b)(3)]

i) For each unit operating hour in which a valid hourly average, as described in §60.334(b)(2), is obtained for both NO\textsubscript{x} and diluent, the data acquisition and handling system must calculate and record the hourly NO\textsubscript{x} emissions in the units of the applicable NO\textsubscript{x} emission standard, i.e., percent NO\textsubscript{x} by volume, dry basis, corrected to 15 percent O\textsubscript{2} and International Organization for Standardization (ISO) standard conditions (if required as given in §60.335(b)(1)). For any hour in which the hourly average O\textsubscript{2} concentration exceeds 19.0 percent O\textsubscript{2}, a diluent cap value of 19.0 percent O\textsubscript{2} may be used in the emission calculations. [§60.334(b)(3)(i)]

ii) A worst case ISO correction factor may be calculated and applied using historical ambient data. For the purpose of this calculation, substitute the maximum humidity of ambient air (H\textsubscript{o}), minimum ambient temperature (T\textsubscript{a}), and minimum combustor inlet absolute pressure (P\textsubscript{o}) into the ISO correction equation. [§60.334(b)(3)(ii)]

iii) If the permittee has installed a NO\textsubscript{x} CEMS to meet the requirements of part 75 of chapter 40, and is continuing to meet the ongoing requirements of part 75 of chapter 40, the CEMS may be used to meet the requirements of this section, except that the missing data substitution methodology provided for at 40 CFR Part 75, subpart D, is not required for purposes of identifying excess emissions. Instead, periods of missing CEMS data are to be reported as monitor downtime in the excess emissions and monitoring performance report required in §60.7(c).

5) Stationary gas turbines using water or steam injection for control of NO\textsubscript{x} emissions are exempt from the NO\textsubscript{x} emission limitation when ice fog is deemed a traffic hazard by the owner or operator of the gas turbine. [§60.332(f)]

6) In conducting the performance tests required in §60.8, the permittee shall use as reference methods and procedures the test methods in 40 CFR Part 60 Appendix A or other methods and procedures as specified in §60.335, except as provided for in §60.8(b). Acceptable alternative methods and procedures are given in §60.335(c). [§60.335(a)]

7) The permittee shall determine compliance with the applicable nitrogen oxides emission limitation as follows: [§60.335(b)]

a) For each run, the mean nitrogen oxides emission concentration (NO\textsubscript{x,o}) corrected to 15 percent O\textsubscript{2} shall be corrected to ISO standard conditions using the following equation:

\[
NO_x = \left( NO_{x,o} \right) \left( \frac{P_o}{P_i} \right)^{0.5} e^{19\left[H_o - 0.0063\right]} \left( \frac{288 K}{T_a} \right)^{1.53}
\]

[§60.335(b)(1)]
Where:
\[ \text{NO}_x = \text{emission rate of NO}_x \text{ at fifteen percent (15%) O}_2 \text{ and ISO standard ambient conditions, volume percent} \]
\[ \text{NO}_x = \text{observed NO}_x \text{ concentration, ppm by volume.} \]
\[ P_r = \text{reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg.} \]
\[ P_o = \text{observed combustor inlet absolute pressure at test, mm Hg.} \]
\[ H_o = \text{observed humidity of ambient air, g H}_2\text{O/g air.} \]
\[ e = \text{transcendental constant, 2.718.} \]
\[ T_a = \text{ambient temperature, K.} \]

8) The permittee may use the following as alternatives to the reference methods and procedures specified in §60.335: [§60.335(c)]
\[ \text{a) Instead of using the equation in §60.335(b)(1), manufacturers may develop ambient condition correction factors to adjust the nitrogen oxides emission level measured by the performance test as provided in §60.8 to ISO standard day conditions. [§60.335(c)(1)]} \]

**Record Keeping:**
The permittee shall use data obtained from the CEMS to demonstrate compliance with Emission Limitation Condition 1 (daily NO\(_x\) emission limitation). These records are required only if distillate fuel oil is combusted during any part of a day (12:00 a.m. to 12:00 a.m.). The most recent 60 months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources’ personnel upon request. [Permit 112002-009, Special Condition 5.J]

**Reporting:**
1) The permittee shall report to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten (10) days after the day in which the daily NO\(_x\) emissions records show that the source exceeded the daily NO\(_x\) emission limitation of 3,708 pounds of NO\(_x\) per day [Permit 112002-009, Condition 6.H]
2) The permittee shall report to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten (10) days after any exceedance of any of the terms imposed by this condition, or any malfunction which causes an exceedance of this condition.
3) The permittee shall report any deviations from the monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification.
4) All reports and certifications shall be submitted to the Air Pollution Control Program’s Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.

**PERMIT CONDITION 006**
10 CSR 10-6.060 Construction Permits Required
Construction Permit No. 112002-009, Issued July 25, 2002 and amended February 17, 2004
10 CSR 10-6.070 New Source Performance Regulations
40 CFR Part 60 Subpart GG Standards of Performance for Stationary Gas Turbines – SO\(_2\)
<table>
<thead>
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<th>Emission Unit</th>
<th>Description</th>
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<tr>
<td>EP6</td>
<td>Turbine 3A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
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</tr>
<tr>
<td>EP8</td>
<td>Turbine 4A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
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<td>EP9</td>
<td>Turbine 4B: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
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<td>EP10</td>
<td>360 horsepower emergency fire pump; installed 2003; manufacturer/model no.: Patterson/JU6HU50</td>
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</tbody>
</table>

Note: The permittee has elected to use only pipeline grade natural gas in the turbines which meets the definition of "natural gas" in §60.331(u). Therefore, the permittee is exempt from monitoring the total sulfur content of the gaseous fuel.

**Standards for Sulfur Dioxide (SO₂)**

**Emission Limitations:**

1) The permittee shall comply with one or the other of the following conditions: [§60.333]
   a) The permittee shall not cause to be discharged into the atmosphere from any stationary gas turbine (EP6 through EP9) any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen and on a dry basis. [§60.333(a)]
   b) The permittee shall not burn in any stationary gas turbine (EP6 through EP9) any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw). [§60.333(b)]

2) The permittee shall not discharge into the atmosphere from all four (4) Pratt & Whitney turbines (emission units EP6, EP7, EP8, and EP9) and the emergency fire pump (emission point EP-10) combined, Sulfur Oxides (SOx) in excess of 40.0 tons in any consecutive 12-month period. [Permit 112002-009A, Special Condition 2.G]

3) The permittee shall not discharge into the atmosphere in any day (12:00 a.m. to 12:00 a.m.), more than 1,016 pounds of SO₂ from the four (4) Pratt & Whitney turbines (emission units EP6, EP7, EP8, and EP9) combined. [Permit 112002-009A, Special Condition 2.H]

**Monitoring:**

1) The permittee shall monitor the total sulfur content of the fuel oil being fired in the turbine. The sulfur content of the fuel must be determined using total sulfur methods described in §60.335(b)(10). [§60.334(h)(1)]
   a) To determine the sulfur content of the fuel oil, a minimum of three fuel samples shall be collected. Analyze the samples for the total sulfur content of the fuel using ASTM D129-00, D2622-98, D4294-02, D1266-98, D5453-00 or D1552-01 (all of which are incorporated by reference, see §60.17). [§60.335(b)(10)(i)]
   b) The fuel analyses required above may be performed by the permittee, a service contractor retained by the permittee, the fuel vendor, or any other qualified agency. [§60.335(b)(11)]

2) The permittee has elected to demonstrate that the gaseous fuel combusted in the turbines (EP6 through EP9), meets the definition of natural gas in §60.331(u). The permittee shall use one of the following sources of information to make the required demonstration: [§60.334(h)(3)]
a) The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or [§60.334(h)(3)(i)]

b) Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in Section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of chapter 40 is required. [§60.334(h)(3)(ii)]

3) The frequency of determining the sulfur content of the fuel oil shall be as follows: [§60.334(i)]
   a) For fuel oil, use one of the total sulfur sampling options and the associated sampling frequency described in Sections 2.2.3, 2.2.4.1, 2.2.4.2, and 2.2.4.3 of appendix D to part 75 of chapter 40 (i.e., flow proportional sampling, daily sampling, sampling from the unit's storage tank after each addition of fuel to the tank, or sampling each delivery prior to combining it with fuel oil already in the intended storage tank). [§60.334(i)(1)]

Record Keeping:
1) The permittee shall keep monthly records that are adequate to determine the SO\textsubscript{X} emissions from the four (4) Pratt & Whitney turbine (emission points EP6, EP7, EP8, and EP9) and the emergency fire water pump (emissions point EP10) combined. These records shall also indicate the total quantity of SO\textsubscript{X} emissions from the four (4) Pratt & Whitney turbine (emission points EP6, EP7, EP8, and EP9) and the emergency fire water pump (emissions point EP10) combined over the previous 12-month period. Attachment E, \emph{SO\textsubscript{X} Compliance Worksheet}, or an equivalent form of the company's own design, is suitable for this purpose. The most recent 60 months of records shall be maintained on-site and shall be made available to Missouri Department of Natural Resources' personnel upon request. [Permit 112002-009, Special Condition 5.D]

2) At least once every year, after commencement of operation, the permittee shall obtain from the fuel vendors or conduct their own fuel analysis to evaluate the typical sulfur content weight percent for natural gas. The fuel consumption records and statement shall be kept on-site for five (5) years and shall be made available to the Missouri Department of Natural Resources' personnel upon request. [Permit 112002-009, Special Condition 5.H]

3) The permittee shall obtain, for each fuel oil delivery, from the fuel vendors or conduct their own fuel analysis to evaluate the typical sulfur content weight percent for distillate fuel oil. The fuel consumption records and statement shall be kept on-site for five (5) years and shall be made immediately available to the Missouri Department of Natural Resources' personnel upon request. [Permit 112002-009, Special Condition 5.I]

4) The permittee shall keep daily records that are adequate to determine compliance with Emission Limitation Number 3 (daily SO\textsubscript{2} emission limitation). These records are required when any fuel with a sulfur content greater than 0.04% by weight is combusted in any part the 24-hour period in any turbine. Attachment F, \emph{Daily SO\textsubscript{2} Compliance Worksheet}, or an equivalent form of the company's own design, is suitable for this purpose. The most recent 60 months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources' personnel upon request. [Permit 112002-009, Condition 5.L]

Reporting:
1) The permittee shall report to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten (10) days after the end of each month if the 12-month cumulative total (Attachment E) records show
that the source exceeded the emission limitation of 40.0 tons of \( \text{SO}_x \). [Permit 112002-009, Special Condition 6.D]

2) The permittee shall report to the Air Pollution Control Program’s Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten (10) days after the day in which the daily \( \text{SO}_2 \) emissions records (Attachment F) show that the source exceeded the emission limitation of 1,016 pounds of \( \text{SO}_2 \) per day. [Permit 112002-009, Special Condition 6.J]

3) Pursuant to 40 CFR §60.13(i), the permittee may make use of 40 CFR Part 75, Appendix D as an alternative to the fuel monitoring and sulfur fuel sampling and analysis requirements of subpart GG of the NSPS. If the permittee elects to use this alternative, the permittee is subject to the following requirements: [Permit 112002-009, Special Condition 6.K]
   a) The permittee shall submit an excess emissions report to the Air Pollution Control Program’s Enforcement Section consistent with the format and schedule described in 40 CFR §60.7(d); and [Permit 112002-009, Special Condition 6.K.1]
   b) For the purpose of excess emission reporting, the permittee shall report each day during which the sulfur content of the fuel exceeds the 0.8% by weight limitation. [Permit 112002-009, Special Condition 6.K.2] All fuel is to be monitored. The sulfur content of natural gas is to be supplied by supplier.

4) The permittee shall submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under §60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined as follows: [§60.334(j)]
   a) If the permittee is required to monitor the sulfur content of the fuel, excess emissions and monitor downtime that shall be reported are defined as follows: [§60.334(j)(2)]
      i) For samples of gaseous fuel and for oil samples obtained using daily sampling, flow proportional sampling, or sampling from the unit’s storage tank, an excess emission occurs each unit operating hour included in the period beginning on the date and hour of any sample for which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 weight percent and ending on the date and hour that a subsequent sample is taken that demonstrates compliance with the sulfur limit. [§60.334(j)(2)(i)]
      ii) If the option to sample each delivery of fuel oil has been selected, the permittee shall immediately switch to one of the other oil sampling options (i.e., daily sampling, flow proportional sampling, or sampling from the unit’s storage tank) if the sulfur content of a delivery exceeds 0.8 weight percent. The permittee shall continue to use one of the other sampling options until all of the oil from the delivery has been combusted, and shall evaluate excess emissions according to §60.334(j)(2)(i). When all of the fuel from the delivery has been burned, the permittee may resume using the as-delivered sampling option. [§60.334(j)(2)(ii)]
      iii) A period of monitor downtime begins when a required sample is not taken by its due date. A period of monitor downtime also begins on the date and hour of a required sample, if invalid results are obtained. The period of monitor downtime shall include only unit operating hours, and ends on the date and hour of the next valid sample. [§60.334(j)(2)(iii)]
   b) All reports required under §60.7(c) shall be postmarked by the 30th day following the end of each 6-month period. [§60.334(j)(5)]

5) The permittee shall report any exceedance of any of the terms imposed by this permit, or any malfunction which could cause an exceedance of any of the terms imposed by this permit, no later
than ten days after the exceedance or event causing the exceedance (unless otherwise specified in the specific condition).

6) The permittee shall report any deviations from the monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification.

7) All reports and certifications shall be submitted to the Air Pollution Control Program’s Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.

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**PERMIT CONDITION 007**

10 CSR 10-6.060 Construction Permits Required

Construction Permit No. 112002-009, Issued July 25, 2002 and amended February 17, 2004

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<table>
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<td>Emission Unit</td>
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<tr>
<td>EP6</td>
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<td>EP7</td>
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<td>EP9</td>
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**Standards for Particulate Matter Less Than 10 Microns (PM<sub>10</sub>)**

**Emission Limitations:**

1) Except during periods of start-up and shutdown, the permittee shall limit emissions of Particulate Matter less than ten microns in aerodynamic diameter (PM<sub>10</sub>) from each of the Pratt & Whitney turbines (EP6, EP7, EP8, and EP9) when burning natural gas to less than three (3.0) pounds per hour. [Permit 112002-009A, Special Condition 2.D]

2) Except during periods of start-up and shutdown, the permittee shall limit emissions of PM<sub>10</sub> from each of the Pratt & Whitney turbines (EP6, EP7, EP8, and EP9) when burning distillate fuel oil to less than twelve (12.0) pounds per hour. [Permit 112002-009A, Special Condition 2.E]

3) The permittee shall not discharge into the atmosphere in any day (12:00 a.m. to 12:00 a.m.), more than 532 pounds of PM<sub>10</sub> from the four (4) Pratt & Whitney turbines (emission points EP6, EP7, EP8, and EP9) combined. [Permit 112002-009A, Special Condition 2.F]

**Record Keeping:**

The permittee shall keep daily records that are adequate to determine compliance with emission limitation number 3 (daily PM<sub>10</sub> emission limitation). These records are required only if distillate fuel oil is combusted in any part the 24-hour period in any turbine. Attachment G, *Daily PM<sub>10</sub> Compliance Worksheet*, or an equivalent form of the company’s own design, is suitable for this purpose. The most recent 60 months of records shall be maintained on-site and shall be made immediately available to
Missouri Department of Natural Resources’ personnel upon request. [Permit 112002-009, Special Condition 5.K]

**Reporting:**

1) The permittee shall report any exceedance of any of the terms imposed by this permit, or any malfunction which could cause an exceedance of any of the terms imposed by this permit, no later than ten days after the exceedance or event causing the exceedance (unless otherwise specified in the specific condition).

2) The permittee shall report any deviations from the monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification.

3) All reports and certifications shall be submitted to the Air Pollution Control Program’s Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.

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**PERMIT CONDITION 008**

10 CSR 10-6.060 Construction Permits Required

Construction Permit No. 112002-009, Issued July 25, 2002 and amended February 17, 2004

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP6</td>
<td>Turbine 3A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP7</td>
<td>Turbine 3B: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP8</td>
<td>Turbine 4A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP9</td>
<td>Turbine 4B: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP10</td>
<td>360 horsepower emergency fire pump; installed 2003; manufacturer/model no.: Patterson/JU6HUF50</td>
</tr>
</tbody>
</table>

**Standards for Volatile Organic Compounds (VOC)**

**Emission Limitation:**

The permittee shall not discharge into the atmosphere from all four (4) Pratt & Whitney turbines (EP6, EP7, EP8, and EP9) and the emergency fire pump (EP10) combined, Volatile Organic Compounds (VOC) in excess of 40.0 tons in any consecutive 12-month period. [Permit 112002-009A, Special Condition 2.I]

**Monitoring/Record Keeping:**

The permittee shall keep monthly records that are adequate to determine the VOC emissions from the four (4) Pratt & Whitney turbine (EP6, EP7, EP8, and EP9) and the emergency fire water pump (EP10) combined. These records shall also indicate the total quantity of VOC emissions from the four (4) Pratt & Whitney turbine (EP6, EP7, EP8, and EP9) and the emergency fire water pump (EP10) combined.
over the previous 12-month period. The records will utilize an emission factor developed during VOC compliance testing. Attachment H, *VOC Compliance Worksheet*, or an equivalent form of the company’s own design, is suitable for this purpose. The most recent 60 months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources’ personnel upon request. [Permit 112002-009, Special Condition 5.E]

**Reporting:**

1) The permittee shall report any exceedance of any of the terms imposed by this permit, or any malfunction which could cause an exceedance of any of the terms imposed by this permit, no later than ten days after the exceedance or event causing the exceedance (unless otherwise specified in the specific condition).

2) The permittee shall report any deviations from the monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification.

3) All reports and certifications shall be submitted to the Air Pollution Control Program’s Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.

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**PERMIT CONDITION 009**

10 CSR 10-6.060 Construction Permits Required

Construction Permit No. 112002-009, Issued July 25, 2002 and amended February 17, 2004

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP6</td>
<td>Turbine 3A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP7</td>
<td>Turbine 3B: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP8</td>
<td>Turbine 4A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP9</td>
<td>Turbine 4B: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
</tbody>
</table>

**Standards for Carbon Monoxide (CO)**

**Emission Limitation:**

The permittee shall not discharge into the atmosphere from all four (4) Pratt & Whitney turbines (EP6, EP7, EP8, and EP9) and the emergency fire pump (EP10) combined, Carbon Monoxide (CO) in excess of 100.0 tons in any consecutive 12-month period.[Permit 112002-009A, Special Condition 2.J]
**Monitoring/Record Keeping:**
The permittee shall keep monthly records that are adequate to determine the CO emissions from the four (4) Pratt & Whitney turbines (EP6, EP7, EP8, and EP9) and the emergency fire water pump (EP10) combined. These records shall also indicate the total quantity of CO emissions from the four (4) Pratt & Whitney turbines (EP6, EP7, EP8, and EP9) and the emergency fire water pump (EP10) combined over the previous 12-month period. The records will utilize an emission factor developed during CO compliance testing. Attachment I, *CO Compliance Worksheet*, or an equivalent form of the company's own design, is suitable for this purpose. The most recent 60 months of records shall be maintained on-site and shall be made immediately available to Missouri Department of Natural Resources' personnel upon request [Permit 112002-009, Special Condition 5.F]

**Reporting:**
1) The permittee shall report to the Air Pollution Control Program's Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten (10) days after the end of each month if the 12-month cumulative total records (Attachment I) show that the source exceeded the emission limitation of 100.0 tons of CO. [Permit 112002-009, Special Condition 6.F]
2) The permittee shall report any deviations from the monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification.
3) All reports and certifications shall be submitted to the Air Pollution Control Program's Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.

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**PERMIT CONDITION 010**

10 CSR 10-6.270 Acid Rain Source Permits Required

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP6</td>
<td>Turbine 3A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP7</td>
<td>Turbine 3B: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP8</td>
<td>Turbine 4A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP9</td>
<td>Turbine 4B: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
</tbody>
</table>

**Emission Limitation:**
The permittee shall obtain an Acid Rain Source Permit for EP6, EP7, EP8 and EP9 pursuant to Title IV of the Clean Air Act.

A Phase II permit is being issued to the permittee in conjunction with this Title V permit and will remain effective for the life of the operating permit (See Attachment J).
**Monitoring/Recordkeeping:**
The permittee shall retain the most current acid rain permit issued to this installation on-site and shall make such permit available to any Department of Natural Resources’ personnel upon request.

**Reporting:**
1) The permittee shall report any deviations from the monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification.
2) All reports and certifications shall be submitted to the Air Pollution Control Program’s Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.

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**PERMIT CONDITION 011**
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>EP10</td>
<td>360 horsepower emergency fire pump; installed 2003; manufacturer/model no.: Patterson/JU6HUF50</td>
</tr>
</tbody>
</table>

**Emission Limitation:**
1) Emissions from any new source operation shall not contain more than 8,812 parts per million (ppmv) of sulfur dioxide for distillate fuel.

**Monitoring/Recordkeeping:**
1) The permittee shall determine compliance using fuel delivery records, fuel sampling and analysis, performance tests, continuous emission monitoring, or other compliance methods approved by the staff director and the U.S. Environmental Protection agency and incorporated into the state implementation plan.
2) The permittee must report any excess emissions other than startup, shutdown and malfunction excess emissions to the staff 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;

---

2 This regulation has not yet been adopted into Missouri’s SIP; therefore, this regulation is a state only requirement. Upon adoption into Missouri’s SIP, this regulation will be both a state and federal requirement.
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.

3) 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 emissions.

4) The permittee must maintain a record of data, calculations, results, records and reports from any performance test, continuous emission monitoring, fuel deliveries, and/or fuel sampling tests.

5) The permittee must maintain a record of any applicable monitoring data, performance evaluations, calibration checks, monitoring system and device performance tests, and any adjustments and maintenance performed on these systems or devices.

6) The permittee of sources using fuel delivery records for compliance must also maintain the fuel supplier certification information to certify all fuel deliveries. Bills of lading and/or other fuel delivery documentation containing the following information for all fuel purchases or deliveries are deemed acceptable to comply with the requirements of this rule:

   a) The name, address, and contact information of the fuel supplier;

   b) The type of fuel;

   c) The sulfur content or maximum sulfur content expressed in percent sulfur by weight or in ppm sulfur; and

   d) The heating value of the fuel.

7) The permittee of sources using fuel sampling and analysis for compliance must also follow the requirements in 10 CSR 10-6.261(5)(D).

8) The permittee of sources using performance testing for compliance must also follow the requirements in 10 CSR 10-6.261(5)(A).

9) All required reports and records 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.

10) The permittee must furnish the director all data necessary to determine compliance status.

**Reporting:**

1) The permittee shall report any exceedance of any of the terms imposed by this permit, or any malfunction which could cause an exceedance of any of the terms imposed by this permit, no later than ten days after the exceedance or event causing the exceedance (unless otherwise specified in the specific condition).

2) The permittee shall report any deviations from the monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification.

3) All reports and certifications shall be submitted to the Air Pollution Control Program’s Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.
PERMIT CONDITION 012
10 CSR 10-6.075 Maximum Achievable Control Technology Regulations

**Emergency Fire Pump**

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP10</td>
<td>360 horsepower emergency fire pump; installed 2003; manufacturer/model no.: Patterson/JU6HUF50</td>
</tr>
</tbody>
</table>

**Emission / Operational Limitations:**
1) The permittee must comply with the requirements in Table 2d of 40 CFR part 63 Subpart ZZZZ: [§63.6603(a)]

*Table 2d to Subpart ZZZZ of Part 63—Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions*

<table>
<thead>
<tr>
<th>For each . . .</th>
<th>You must meet the following requirement, except during periods of startup . . .</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency stationary CI RICE 2</td>
<td>Change oil and filter every 500 hours of operation or annually, whichever comes first; 1</td>
</tr>
<tr>
<td></td>
<td>Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;</td>
</tr>
<tr>
<td></td>
<td>and</td>
</tr>
<tr>
<td></td>
<td>Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.</td>
</tr>
</tbody>
</table>

1 Sources have the option to utilize an oil analysis program as described in §63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2d of this subpart.
2 If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

**Annual Usage Limitations:**
1) 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. [§63.6640(f)]

a) There is no time limit on the use of emergency stationary RICE in emergency situations. [§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 (iiiug) 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). [§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. [§63.6640(f)(2)(i)]

Record Keeping:
1) The permittee must keep the following records for this engine: [§63.6655(a)]

a) Records of the occurrence and duration of each malfunction of process equipment or any air pollution control and monitoring equipment and actions taken during periods of malfunction to minimize emissions including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [§63.6655(a)(2) and §63.6655(a)(5)]

b) Records of all required maintenance performed on the air pollution control and monitoring equipment. [§63.6655(a)(4)]

c) Records that the engine was operated and maintained according to the manufacturer's emission-related operation and maintenance instructions or that a maintenance plan has been developed to provide for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [§63.6655(e)]

d) Records of the hours of operation for the engine as measured by the non-resettable hour meter. The installation shall also maintain a record keeping form indicating out of the total hours measured by the meter: [§63.6655(f)]

i) How many hours were spent in emergency use and a brief description of the emergency situation.

ii) How many hours were spent in non-emergency operation.

c) These records must be made available for inspection upon request by Missouri DNR personnel. [§63.6660(a)]

f) All records shall be maintained for five (5) years. [§63.6660(b)]

g) Records shall be kept readily accessible in hard copy or electronic form. [§63.6660(c)]
Reporting:
1) The permittee shall report any exceedance of any of the terms imposed by this permit, or any malfunction which could cause an exceedance of any of the terms imposed by this permit, no later than ten days after the exceedance or event causing the exceedance (unless otherwise specified in the specific condition).
2) The permittee shall report any deviations from the monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification.
3) All reports and certifications shall be submitted to EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219 and to the Air Pollution Control Program’s Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.

PERMIT CONDITION 013
40 CFR Part 70 and 97
Cross State Air Pollution Rule

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Turbine Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP5</td>
<td>Turbine 2: Simple cycle distillate fuel oil and natural gas electric generating turbine; installed 1981; manufacturer/model no: Westinghouse 501D</td>
</tr>
<tr>
<td>EP4</td>
<td>Turbine 1: Simple cycle distillate fuel oil and natural gas electric generating turbine; installed 1978; manufacturer/model no: Westinghouse 501D</td>
</tr>
<tr>
<td>EP6</td>
<td>Turbine 3A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP7</td>
<td>Turbine 3B: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP8</td>
<td>Turbine 4A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
</tr>
<tr>
<td>EP9</td>
<td>Turbine 4B: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</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 (CEMS) requirements pursuant to 40 CFR part 75, appendix D</th>
<th>Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR part 75, appendix D</th>
<th>Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR part 75,</th>
<th>Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR part 75,</th>
<th>EPA-approved alternative monitoring system requirements pursuant to 40 CFR part 75, subpart E</th>
</tr>
</thead>
</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 requirement is available on the EPA’s website at http://www.epa.gov/airmarkets/emissions/petitions.html.

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 (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 for 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, subpart AAAAA.

(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 NO\textsubscript{X} emissions during a control period in a given year from the TR NO\textsubscript{X} Ozone Season units at a TR NO\textsubscript{X} Ozone Season source are in excess of the TR NO\textsubscript{X} Ozone Season emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The permittee of the source and each TR NO\textsubscript{X} Ozone Season unit at the source shall hold the TR NO\textsubscript{X} Ozone Season allowances required for deduction under 40 CFR 97.524(d); and

(B). The permittee of the source and each TR NO\textsubscript{X} 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 BBBBB and the Clean Air Act.

(2) TR NO\textsubscript{X} Ozone Season assurance provisions.

(i). If total NO\textsubscript{X} emissions during a control period in a given year from all TR NO\textsubscript{X} Ozone Season units at TR NO\textsubscript{X} 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 NO\textsubscript{X} 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 NO\textsubscript{X} 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 NO\textsubscript{X} 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 NO\textsubscript{X} emissions exceeds the respective common designated representative’s assurance level; and

(B). The amount by which total NO\textsubscript{X} emissions from all TR NO\textsubscript{X} Ozone Season units at TR NO\textsubscript{X} Ozone Season sources in the state for such control period exceed the state assurance level.

(ii). The permittee shall hold the TR NO\textsubscript{X} 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 NO\textsubscript{X} emissions from all TR NO\textsubscript{X} Ozone Season units at TR NO\textsubscript{X} Ozone Season sources in the state during a control period in a given year exceed the state assurance level if such total NO\textsubscript{X} emissions exceed the sum, for such control period, of the State NO\textsubscript{X} 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 NO\textsubscript{X} emissions from all TR NO\textsubscript{X} Ozone Season units at TR NO\textsubscript{X} 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 NO\textsubscript{X} emissions from the TR NO\textsubscript{X} Ozone Season units at TR NO\textsubscript{X} 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 deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.
   (i). A TR NOX Ozone Season allowance held for compliance with the requirements under paragraph (c)(1) 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.

(c) 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 SO₂ Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO₂ 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) SO₂ emissions requirements.

(1) TR SO₂ 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 SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, TR SO₂ 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 SO₂ emissions for such control period from all TR SO₂ Group 1 units at the source.

(ii). If total SO₂ emissions during a control period in a given year from the TR SO₂ Group 1 units at a TR SO₂ Group 1 source are in excess of the TR SO₂ Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:

(A). The permittee of the source and each TR SO₂ Group 1 unit at the source shall hold the TR SO₂ Group 1 allowances required for deduction under 40 CFR 97.624(d); and

(B). The permittee of the source and each TR SO₂ 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 SO₂ Group 1 assurance provisions.

(i). If total SO₂ emissions during a control period in a given year from all TR SO₂ Group 1 units at TR SO₂ 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 SO₂ 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 SO₂ 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\textsubscript{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\textsubscript{2} emissions exceeds the respective common designated representative’s assurance level; and

(B). The amount by which total SO\textsubscript{2} emissions from all TR SO\textsubscript{2} Group 1 units at TR SO\textsubscript{2} Group 1 sources in the state for such control period exceed the state assurance level.

(ii). The permittee shall hold the TR SO\textsubscript{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\textsubscript{2} emissions from all TR SO\textsubscript{2} Group 1 units at TR SO\textsubscript{2} Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO\textsubscript{2} emissions exceed the sum, for such control period, of the state SO\textsubscript{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\textsubscript{2} emissions from all TR SO\textsubscript{2} Group 1 units at TR SO\textsubscript{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\textsubscript{2} emissions from the TR SO\textsubscript{2} Group 1 units at TR SO\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{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\textsubscript{2} Group 1 allowance that was allocated for such control period or a control period in a prior year.

(ii). A TR SO\textsubscript{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\textsubscript{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 SO\textsubscript{2} Group 1 Trading Program that applies to a TR SO\textsubscript{2} Group 1 source or the designated representative of a TR SO\textsubscript{2} Group 1 source shall also apply to the owners and operators of such source and of the TR SO\textsubscript{2} Group 1 units at the source.
(2) Any provision of the TR SO\textsubscript{2} Group 1 Trading Program that applies to a TR SO\textsubscript{2} Group 1 unit or the designated representative of a TR SO\textsubscript{2} Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.
No provision of the TR SO\textsubscript{2} 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 SO\textsubscript{2} Group 1 source or TR SO\textsubscript{2} 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.

TR SO\textsubscript{2} Group 2 Trading Program requirements (40 CFR 97.706)

(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 97.713 through 97.718.

(b) Emissions monitoring, reporting, and recordkeeping requirements.
(1) The permittee, and the designated representative, of each TR SO\textsubscript{2} Group 2 source and each TR SO\textsubscript{2} Group 2 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.730 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.731 (initial monitoring system certification and recertification procedures), 97.732 (monitoring system out-of-control periods), 97.733 (notifications concerning monitoring), 97.734 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.735 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
(2) The emissions data determined in accordance with 40 CFR 97.730 through 97.735 shall be used to calculate allocations of TR SO\textsubscript{2} Group 2 allowances under 40 CFR 97.711(a)(2) and (b) and 97.712 and to determine compliance with the TR SO\textsubscript{2} Group 2 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 97.730 through 97.735 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO\textsubscript{2} emissions requirements.
(1) TR SO\textsubscript{2} Group 2 emissions limitation.
   (i). As of the allowance transfer deadline for a control period in a given year, the permittee of each TR SO\textsubscript{2} Group 2 source and each TR SO\textsubscript{2} Group 2 unit at the source shall hold, in the source's compliance account, TR SO\textsubscript{2} Group 2 allowances available for deduction for such control period under 40 CFR 97.724(a) in an amount not less than the tons of total SO\textsubscript{2} emissions for such control period from all TR SO\textsubscript{2} Group 2 units at the source.
   (ii). If total SO\textsubscript{2} emissions during a control period in a given year from the TR SO\textsubscript{2} Group 2 units at a TR SO\textsubscript{2} Group 2 source are in excess of the TR SO\textsubscript{2} Group 2 emissions limitation set forth in paragraph (c)(1)(i) above, then:
(A). The permittee of the source and each TR SO₂ Group 2 unit at the source shall hold the TR SO₂ Group 2 allowances required for deduction under 40 CFR 97.724(d); and

(B). The permittee of the source and each TR SO₂ Group 2 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 DDDDD and the Clean Air Act.

(2) TR SO₂ Group 2 assurance provisions.

(i). If total SO₂ emissions during a control period in a given year from all TR SO₂ Group 2 units at TR SO₂ Group 2 sources in the 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 SO₂ 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 SO₂ Group 2 allowances available for deduction for such control period under 40 CFR 97.725(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 97.725(b), of multiplying—

(A). The quotient of the amount by which the common designated representative’s share of such SO₂ 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 SO₂ emissions exceeds the respective common designated representative’s assurance level; and

(B). The amount by which total SO₂ emissions from all TR SO₂ Group 2 units at TR SO₂ Group 2 sources in the state for such control period exceed the state assurance level.

(ii). The permittee shall hold the TR SO₂ Group 2 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 SO₂ emissions from all TR SO₂ Group 2 units at TR SO₂ Group 2 sources in the state during a control period in a given year exceed the state assurance level if such total SO₂ emissions exceed the sum, for such control period, of the state SO₂ Group 2 trading budget under 40 CFR 97.710(a) and the state’s variability limit under 40 CFR 97.710(b).

(iv). It shall not be a violation of 40 CFR part 97, subpart DDDDD or of the Clean Air Act if total SO₂ emissions from all TR SO₂ Group 2 units at TR SO₂ Group 2 sources in the state during a control period exceed the state assurance level or if a common designated representative’s share of total SO₂ emissions from the TR SO₂ Group 2 units at TR SO₂ Group 2 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 SO₂ Group 2 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 SO₂ Group 2 allowance that the permittee 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 DDDDD and the Clean Air Act.

(3) Compliance periods.
   (i). A TR SO₂ Group 2 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 97.730(b) and for each control period thereafter.
   (ii). A TR SO₂ Group 2 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 97.730(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.
   (i). A TR SO₂ Group 2 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 SO₂ Group 2 allowance that was allocated for such control period or a control period in a prior year.
   (ii). A TR SO₂ Group 2 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 SO₂ Group 2 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 2 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 DDDDD.

(6) Limited authorization. A TR SO₂ Group 2 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 2 Trading Program; and
   (ii). Notwithstanding any other provision of 40 CFR part 97, subpart DDDDD, 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 2 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 2 allowances in accordance with 40 CFR part 97, subpart DDDDD.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.730 through 97.735, 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 97.706(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 SO₂ Group 2 source and each TR SO₂ Group 2 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 97.716 for the designated representative for the source and each TR SO₂ Group 2 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 97.716 changing the designated representative.

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

(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 2 Trading Program.

(2) The designated representative of a TR SO₂ Group 2 source and each TR SO₂ Group 2 unit at the source shall make all submissions required under the TR SO₂ Group 2 Trading Program, except as provided in 40 CFR 97.718. 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 parts 70 and 71.

(f) Liability.

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

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

(g) Effect on other authorities.

No provision of the TR SO₂ Group 2 Trading Program or exemption under 40 CFR 97.705 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR SO₂ Group 2 source or TR SO₂ Group 2 unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

<table>
<thead>
<tr>
<th>Turbines 1, 2, 3A, 3B, 4A and 4B</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP5 Turbine 2: Simple cycle distillate fuel oil and natural gas electric generating turbine; installed 1981; manufacturer/model no: Westinghouse 501D</td>
<td></td>
</tr>
<tr>
<td>EP4 Turbine 1: S Simple cycle distillate fuel oil and natural gas electric generating turbine; installed 1978; manufacturer/model no: Westinghouse 501D</td>
<td></td>
</tr>
<tr>
<td>EP6 Turbine 3A: 27.5 megawatt dual fuel turbine; installed 2003; manufacturer/model no.: Pratt &amp; Whitney FT8</td>
<td></td>
</tr>
</tbody>
</table>
Emission Limitation:

A CAIR Permit is being issued to the permittee in conjunction with this Title V permit. (See Attachment K)

Monitoring/Recordkeeping:
The permittee shall retain the most current CAIR permit issued to this installation on-site and shall 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)(I).C.(III).

PERMIT CONDITION 015
10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP5</td>
<td>Turbine 2: Simple cycle distillate fuel oil and natural gas electric generating turbine; installed 1981; manufacturer/model no: Westinghouse 501D</td>
</tr>
<tr>
<td>EP4</td>
<td>Turbine 1: Simple cycle distillate fuel oil and natural gas electric generating turbine; installed 1978; manufacturer/model no: Westinghouse 501D</td>
</tr>
<tr>
<td>EP10</td>
<td>360 horsepower emergency fire pump; installed 2003; manufacturer/model no.: Patterson/JU6HUF50</td>
</tr>
</tbody>
</table>

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

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This regulation was rescinded by the State of Missouri on November 30, 2015. The regulation remains in this operating permit as it is contained in Missouri's SIP and remains an applicable federal requirement. This is a federal only requirement. This permit condition will no longer be applicable when EPA takes final action to incorporate 10 CSR 10-6.261 in Missouri's SIP in place of 10 CSR 10-6.260. No action is required on the part of the permittee to remove this permit condition from this operating permit upon the removal of 10 CSR 10-6.260 from the Missouri SIP.
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/Record Keeping/Reporting:**
Turbines 1 and 2 (EU4 and EU5) and Emergency Fire Pump (EP10) will always be in compliance with this regulation. Calculations demonstrating compliance are in the Statement of Basis. The permittee shall keep copies of these calculations with this permit. No monitoring or reporting is required for this permit condition.

**Reporting:**
1. The permittee shall report any exceedance of any of the terms imposed by this permit, or any malfunction which could cause an exceedance of any of the terms imposed by this permit, no later than ten days after the exceedance or event causing the exceedance (unless otherwise specified in the specific condition).
2. The permittee shall report any deviations from the monitoring, recordkeeping, and reporting requirements of this permit condition in the semi-annual monitoring report and annual compliance certification.
3. All reports and certifications shall be submitted to the Air Pollution Control Program’s Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.
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.

### 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 a State Only permit requirement.

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.

**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.

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. If a timely and complete application for a permit renewal is submitted, but the Air Pollution Control Program fails to take final action to issue or deny the renewal permit before the end of the term of this permit, this permit shall not expire until the renewal permit is issued or denied.

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, 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, and no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.

e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.

f) The permittee may request confidential treatment of information submitted in any report of deviation.

10 CSR 10-6.065(6)(C)1.D Risk Management Plan Under Section 112(r)
The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

1) June 21, 1999;

2) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or

3) The date on which a regulated substance is first present above a threshold quantity in a process.

10 CSR 10-6.065(6)(C)1.E Title IV Allowances
This permit prohibits emissions which exceed any allowances the installation holds under Title IV of the Clean Air Act.

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

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

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

The Acid Rain Permit is being issued in conjunction with this operating permit. It is included as part of the operating permit as Attachment I.

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

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

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

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

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

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

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

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

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

None.

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

1) Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.

2) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation’s right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
   a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
   b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
   c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
   d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
3) All progress reports required under an applicable schedule of compliance shall be submitted 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, 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, 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, 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 application, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. Off-permit changes shall be subject to the following requirements and restrictions:

a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is subject to any requirements under Title IV of the Act or is a Title I modification;

b) The permittee must provide contemporaneous written notice of the change to the Air Pollution Control Program, 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 John Woods, Responsible Official Title. If this person 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 (MoDNR) 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) MoDNR 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) MoDNR 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

Individual Turbine Operational Schedule

Empire District Energy Center

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

This sheet is for Turbine Emission Point EP_____.

**Copy this sheet as needed.**

<table>
<thead>
<tr>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hours of Operation for this Month</td>
<td>(Note 1)</td>
</tr>
<tr>
<td>12-Month Total Operational Hours From Previous Month's Worksheet</td>
<td>(Note 2)</td>
</tr>
<tr>
<td>Monthly Total Operational Hours From Previous Year's Worksheet</td>
<td>(Note 3)</td>
</tr>
<tr>
<td>Current 12-Month Total Operational Hours</td>
<td>(Note 4)</td>
</tr>
</tbody>
</table>

Note 1: Total number of hours that this turbine was burning natural gas or fuel oil for this month use separate sheet for each fuel type.

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

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

Note 4: Amount reported in Note 2 minus amount reported in Note 3 plus amount reported in Note 1.
ATTACHMENT C

Operational Schedule of the Four (4) Pratt & Whitney Turbines

Empire District Energy Center

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

Copy this sheet as needed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Month/year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Electricity Hours for this Month</td>
<td>(Note 2)</td>
</tr>
<tr>
<td>12-Month Total Electricity Hours From Previous Month's Worksheet</td>
<td>(Note 3)</td>
</tr>
<tr>
<td>Monthly Total Electricity Hours From Previous Year's Worksheet</td>
<td>(Note 4)</td>
</tr>
<tr>
<td>Current 12-Month Total Electricity Hours</td>
<td>(Note 5)</td>
</tr>
</tbody>
</table>


Note 2: Total number of hours that this installation had any of the four (4) or combination of the four (4) turbines (Emission Points EP6, EP7, EP8, EP9) connected to the utility grid by closure of the generator breaker using any fuel.

Note 3: Running 12-month total of electricity hours from previous month's worksheet.

Note 4: Electricity hours reported for this month in the last calendar year.

Note 5: Amount reported in Note 2 minus amount reported in Note 3 plus amount reported in Note 1. Less than 5,000 concurrent hours indicates compliance.
ATTACHMENT D

Emergency Fire Water Pump Operation Schedule

Empire District Energy Center

This sheet covers the month of ______ in the year ________.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time (Note 1)</th>
<th>Hours of Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Hour of Operation for the Month (Note 2)

12-Month Hours of Operation from Previous Months Worksheet (Note 3)

Monthly Hours of Operation from Previous Year’s Worksheet (Note 4)

Current 12-Month Hours of Operation (Note 5)

Note 1: Empire can only operate the Emergency Fire Water Pump between the hours of 1:00 p.m. and 5:00 p.m.
Note 2: Sum of the hours of operation for the month.
Note 3: Running 12-month hours of operation from the previous month worksheet.
Note 4: Hours of operation reported for this month in the last calendar year.
Note 5: Amount reported in Note 3 minus the amount reported for Note 4 plus amount reported for Note 2. Not to exceed 300 hours.
# ATTACHMENT E

**SO₂ Compliance Worksheet**

Empire District Energy Center

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

**Copy this sheet as needed.**

<table>
<thead>
<tr>
<th>Column A</th>
<th>Column B</th>
<th>Column C</th>
<th>Column D</th>
<th>Column E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Type</td>
<td>Amount Burned (gallons) (Note 1)</td>
<td>Density (pounds/gallon)</td>
<td>Sulfur Content (Weight Percent) (Note 2)</td>
<td>SO₂ Emissions (tons) (Note 3)</td>
</tr>
<tr>
<td>Nat Gas</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel Oil</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total SO₂ Emissions for Current Month (tons) (Note 4)

12-Month SO₂ Emissions Total From Previous Month’s Worksheet (tons) (Note 5)

Monthly SO₂ Emissions Total From Previous Year’s Worksheet (tons) (Note 6)

Current 12-Month Total SO₂ Emissions (tons) (Note 7)

**Note 1:** Total amount of natural gas, fuel oil number 1, or fuel oil number 2 burned in the four (4) Pratt & Whitney turbines and emergency fire water pump during this month.

**Note 2:** The percent sulfur content of each type of fuel.

**Note 3:** The SO₂ emissions assuming that all of the sulfur in the fuel is emitted as SO₂. The following equation should be used in calculating the SO₂ emissions. Column E = (Column B)•(Column C)•(Column D/100)•(2) ÷ (2000)

**Note 4:** Sum of the column.

**Note 5:** Running 12-month total of SO₂ emissions from previous month’s worksheet.

**Note 6:** SO₂ Emissions reported for this month in the last calendar year.

**Note 7:** Amount reported in Note 5 plus amount reported in Note 4 minus amount reported in Note 6. Less than 40.0 tons indicate compliance.
ATTACHMENT F

Daily SO₂ Compliance Worksheet
Empire District Energy Center

This sheet covers the day of ___________ in the year ________________.

<table>
<thead>
<tr>
<th>Fuel Type</th>
<th>Column A</th>
<th>Column B</th>
<th>Column C</th>
<th>Column D</th>
<th>Column E</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Amount Burned (gallons) (Note 1)</td>
<td>Density (pounds/gallon)</td>
<td>Sulfur Content (Weight Percent) (Note 2)</td>
<td>SO₂ Emissions (lbs) (Note 3)</td>
<td></td>
</tr>
<tr>
<td>Nat Gas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel Oil</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total SO₂ Emissions for Current Month (tons)</td>
<td></td>
<td></td>
<td></td>
<td>(Note 4)</td>
<td></td>
</tr>
</tbody>
</table>

Note: This record keeping page is only required to be kept for the days in which any fuel oil is burned in any of the four (4) Pratt & Whitney turbines.

Note 1: Total amount of natural gas or distillate fuel oil burned in the four (4) Pratt & Whitney turbines and emergency fire water pump during this month.

Note 2: The percent sulfur content of each type of fuel.

Note 3: The SO₂ emissions assuming that all of the sulfur in the fuel is emitted as SO₂. The following equation should be used in calculating the SO₂ emissions. Column E = (Column B)(Column C)(Column D/100)(2)

Note 4: Sum of the column, not to exceed 1,016 pounds of SO₂ emissions in any day (12:00 a.m. to 12:00 p.m.).
## ATTACHMENT G

**Daily PM$_{10}$ Compliance Worksheet**

**Empire District Energy Center**

This sheet covers the day of __________ in the year __________.

**Copy this sheet as needed.**

<table>
<thead>
<tr>
<th>Column A</th>
<th>Column B</th>
<th>Column C</th>
<th>Column D</th>
<th>Column E</th>
<th>Column F</th>
<th>Column G</th>
<th>Column H</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fuel Source</strong></td>
<td><strong>Amount of Natural Gas Burned (MMCF)</strong> (Note 1)</td>
<td><strong>PM$_{10}$ Emission Factor (lb/MMCF)</strong> (Note 2)</td>
<td><strong>Amount of Fuel Oil Burned (1000 gallons)</strong> (Note 3)</td>
<td><strong>PM$_{10}$ Emission Factor (lb/1000 gal)</strong> (Note 4)</td>
<td><strong>Hours of Operation</strong></td>
<td><strong>Emission Factor (lb/hr)</strong> (Note 5)</td>
<td><strong>PM$_{10}$ Emissions (tons)</strong></td>
</tr>
<tr>
<td>Turbines (Nat Gas)</td>
<td>6.732</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Note 6)</td>
</tr>
<tr>
<td>Turbines (Fuel Oil)</td>
<td></td>
<td>1.57</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Note 7)</td>
</tr>
</tbody>
</table>

Total PM$_{10}$ Emissions for Current day (tons) (Note 8)

Note: This record keeping page is only required to be kept for the days in which any fuel oil is burned in any of the four (4) Pratt & Whitney turbines.

Note 1: Total amount of natural gas burned in the four (4) Pratt & Whitney turbines during this month.

Note 2: PM$_{10}$ emission factor(s) for natural gas combustion determined from stack tests.

Note 3: Total amount of distillate fuel oil burned in the four (4) Pratt & Whitney turbines during this month.

Note 4: PM$_{10}$ emission factor(s) fuel oil combustion determined from stack test.

Note 5: Emissions factor for the emergency fire water pump is based upon the emission rate supplied by the manufacturer.

Note 6: Column H = (Column B) • (Column C) • (2000 lb/ton)

Note 7: Column H = (Column D) • (Column E) • (2000 lb/ton)

Note 8: Sum of the column, not to exceed 532 pounds of PM$_{10}$ in any day (12:00 a.m. to 12:00 p.m.).
## ATTACHMENT H

### VOC Compliance Worksheet

Empire District Energy Center

This sheet covers the month of __________ in the year ________________.

Copy this sheet as needed.

<table>
<thead>
<tr>
<th>Fuel Source</th>
<th>Column A</th>
<th>Column B</th>
<th>Column C</th>
<th>Column D</th>
<th>Column E</th>
<th>Column F</th>
<th>Column G</th>
<th>Column H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbines (Nat Gas)</td>
<td></td>
<td>2.142</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Note 6)</td>
</tr>
<tr>
<td>Turbines (Fuel Oil)</td>
<td></td>
<td></td>
<td></td>
<td>0.057</td>
<td></td>
<td></td>
<td></td>
<td>(Note 7)</td>
</tr>
<tr>
<td>Emergency Pump</td>
<td></td>
<td></td>
<td></td>
<td>49.3</td>
<td></td>
<td></td>
<td></td>
<td>(Note 8)</td>
</tr>
</tbody>
</table>

**Total VOC Emissions for Current Month (tons)**

**12-Month VOC Emissions Total From Previous Month’s Worksheet (tons)** (Note 10)

**Monthly VOC Emissions Total From Previous Year’s Worksheet (tons)** (Note 11)

**Current 12-Month Total VOC Emissions (tons)** (Note 12)

**Note 1:** Total amount of natural gas burned in the four (4) Pratt & Whitney turbines during this month.

**Note 2:** VOC emission factor(s) for natural gas combustion will be determined from stack tests required by Special Condition 3.B.

**Note 3:** Total amount of distillate fuel oil burned in the four (4) Pratt & Whitney turbines during this month.

**Note 4:** VOC emission factor(s) for fuel oil combustion will be determined from stack test required by Special Condition 3.B.

**Note 5:** Emissions factor for the emergency fire water pump is based upon the emission rate supplied by the manufacturer.

**Note 6:** Column H = (Column B) • (Column C) + (2000 lb/ton)

**Note 7:** Column H = (Column D) • (Column E) + (2000 lb/ton)

**Note 8:** Column H = (Column F) • (Column G) + (2000 lb/ton)

**Note 9:** Sum of the column.

**Note 10:** Running 12-month total of VOC emissions from previous month’s worksheet.

**Note 11:** VOC Emissions reported for this month in the last calendar year.

**Note 12:** Amount reported in Note 10 plus amount reported in Note 9 minus amount reported in Note 11. Less than 40.0 tons indicate compliance.
ATTACHMENT I

CO Compliance Worksheet

Empire District Energy Center

This sheet covers the month of ________ in the year _________.

Copy this sheet as needed.

<table>
<thead>
<tr>
<th>Fuel Source</th>
<th>Column A</th>
<th>Column B</th>
<th>Column C</th>
<th>Column D</th>
<th>Column E</th>
<th>Column F</th>
<th>Column G</th>
<th>Column H</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Amount of Natural Gas Burned (MMCF) (Note 1)</td>
<td>CO Emission Factor (lb/MMCF) (Note 2)</td>
<td>Amount of Fuel Oil Burned (1000 gallons) (Note 3)</td>
<td>CO Emission Factor (lb/1000 gal) (Note 4)</td>
<td>Hours of Operation</td>
<td>Emission Factor (lb/hr) (Note 5)</td>
<td>CO Emissions (tons)</td>
<td></td>
</tr>
<tr>
<td>Turbines (Nat Gas)</td>
<td>11.22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Note 6)</td>
</tr>
<tr>
<td>Turbines (Fuel Oil)</td>
<td></td>
<td>10.564</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Note 7)</td>
</tr>
<tr>
<td>Emergency Pump</td>
<td></td>
<td>130</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Note 8)</td>
</tr>
<tr>
<td>Total CO Emissions for Current Month (tons)</td>
<td>(Note 9)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12-Month CO Emissions Total From Previous Month's Worksheet (tons)</td>
<td>(Note 10)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monthly CO Emissions Total From Previous Year's Worksheet (tons)</td>
<td>(Note 11)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Current 12-Month Total CO Emissions (tons)</td>
<td>(Note 12)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Note 1: Total amount of natural gas burned in the four (4) Pratt & Whitney turbines during this month.
Note 2: CO emission factor(s) for natural gas combustion determined from stack tests.
Note 3: Total amount of distillate fuel oil burned in the four (4) Pratt & Whitney turbines during this month.
Note 4: CO emission factor(s) fuel oil combustion determined from stack test.
Note 5: Emissions factor for the emergency fire water pump is based upon the emission rate supplied by the manufacturer.
Note 6: Column H = (Column B) • (Column C) + (2000 lb/ton)
Note 7: Column H = (Column D) • (Column E) + (2000 lb/ton)
Note 8: Column H = (Column F) • (Column G) + (2000 lb/ton)
Note 9: Sum of the column.
Note 10: Running 12-month total of CO emissions from previous month's worksheet.
Note 11: CO Emissions reported for this month in the last calendar year.
Note 12: Amount reported in Note 10 plus amount reported in Note 9 minus amount reported in Note 11. Less than 100.0 tons indicate compliance.
ATTACHMENT J
Acid Rain Permit

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:** Empire District – Stateline Power Plant
**ORIS Code:** 7296
**Unit ID:** Turbines 3A, 3B, 4A, 4B

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.

Pursuant to 40 CFR Part 76, the Missouri Department of Natural Resources Air Pollution Control Program approves the Phase II NOₓ Compliance Plan submitted for this unit. In addition to complying with these NOₓ limits, this unit shall comply with all other applicable requirements of 40 CFR Part 76, including the requirement to reapply for a NOₓ compliance plan and requirements covering excess emissions.

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.

**JUN 20 2018**

Date

[Signature]

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

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☐ new ☑ revised for Acid Rain permit renewal

### STEP 1
Identify the facility name, State, and plant (ORIS) code.

**Facility (Source) Name**: Empire District Energy Center  
**State**: MD  
**Plant Code**: 6223

### STEP 2
Enter the unit ID# for every affected unit at the affected source in column "a."

<table>
<thead>
<tr>
<th>Unit ID#</th>
<th>Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3A</td>
<td>Yes</td>
</tr>
<tr>
<td>3B</td>
<td>Yes</td>
</tr>
<tr>
<td>4A</td>
<td>Yes</td>
</tr>
<tr>
<td>4B</td>
<td>Yes</td>
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</tbody>
</table>

EPA Form 7610-16 (Revised 12-2009)
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 source or unit, as appropriate, 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 source’s compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; 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 monitoring certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
Sulfur Dioxide Requirements, Cont'd.

STEP 3, Cont'd.

(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 source 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 source 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;
Recordkeeping and Reporting Requirements, Cont'd.

STEP 3, Cont'd.

(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.

(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.

(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...
Effect on Other Authorities, Cont’d.

to applicable National Ambient Air Quality Standards or State Implementation Plans;

STEP 3, Cont’d.

(2) Limiting the number of allowances a source can hold; provided, that the number of allowances held by the source 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 regulating 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  Tim Wilson

Signature  

Date 1-14-15
ATTACHMENT K
CAIR Permit

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 The 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. The Energy Center is not required to hold CAIR allowances and therefore no violation of CAIR is possible.
TITILE 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: Empire District - Energy Center, ORIS Code: 6223
Project Number: 2007-036-074
Unit IDs: 1, 2, 3A, 3B, 4A, and 4B

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 the Turbine Unis 3A, 3B, 4A and 4B at Empire District – Energy Center, plant 097-0062.

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.

JUN 20 2018
Date

[Signature]
Director or Designee,
Department of Natural Resources
STEP 1
Identify the source by plant name, State, and ORIS or facility code.

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

<table>
<thead>
<tr>
<th>Unit ID#</th>
<th>NOx Annual</th>
<th>SO2</th>
<th>NOx Ozone Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>2</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>3A</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>3B</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>4A</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>4B</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

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

Standard Requirements
(a) Permit Requirements.
(1) The CAIR designated representative of each CAIR 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 in compliance with such CAIR permit.
(3) Except as provided in subpart II, III, and III (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 at the source shall comply with the monitoring, reporting, and recordkeeping requirements of subparts HH, HHH, and HHHHH (as applicable) of 40 CFR part 96. The emissions measurements recorded and reported in accordance with subparts HH, HHH, and HHHHH (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 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, 2008 or the deadline for meeting the unit's monitor certification requirements under §96.170(b)(1), (2), or (5) and for each control period thereafter.

(3) A CAIR 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 application, the CAIR permit, or an exemption under §96.105 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR 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 emissions 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 §96.204(a) and (b) not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO2 units at the source, as determined in accordance with subpart HHH of 40 CFR part 96.

(2) A CAIR SO2 unit shall be subject to the requirements under paragraph (c)(1) of §96.205 for the control period starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under §96.170(b)(1), (2), or (5) and for each control period thereafter.

(3) A CAIR SO2 allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.205, for a control period in a calendar year before the year for which the CAIR NOx 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 one ton of 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 EE, FF, GG, or III 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.
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.

(i) The certificate of representation under §96.113, §96.213, and §96.313 (as applicable) for the CAIR designated representative for the source and each CAIR 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.

(ii) 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 3-year period for recordkeeping, the 3-year period shall apply.

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

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR 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).

2) 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 source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) shall also apply to the owners and operators of such unit.
STEP 3, continued

(g) Effect on Other Authorities.

No provision of the CAIR NOx Annual Trading Program, CAIR SO2 Trading Program, and CAIR NOx Ozone Season Trading Program (as applicable), a CAIR permit application, a CAIR permit, or an exemption under §96.125, §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 NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) or CAIR NOx unit, CAIR SO2 unit, and CAIR NOx 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: Harold R. Cogin, II
Signature: [Signature]
Date: 6-9-07
STATEMENT OF BASIS

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

1) Part 70 Operating Permit Application, received January 20, 2015;
2) 2014 Emissions Inventory Questionnaire, received April 22, 2015; and
4) WEBFIRE;
6) Construction Permit No. 0395-015, Issued February 28, 1995
7) Construction Permit No. 112002-009, Issued July 25, 2002
8) Construction Permit No. 112002-009 Amendment Letter Dated February 17, 2004
9) Acid Rain Permit
10) Clean Air Interstate Rule Permit

Applicable Requirements Included in the Operating Permit but Not in the Application or Previous Operating Permits
In the operating permit application, the installation indicated they were not subject to the following regulation(s). However, in the review of the application, the agency has determined that the installation is subject to the following regulation(s) for the reasons stated.

10 CSR 10-6.261 Control of Sulfur Dioxide Emissions
This regulation became effective November 30, 2015.

Other Air Regulations Determined Not to Apply to the Operating Permit
The Air Pollution Control Program (APCP) has determined the following requirements to not be applicable to this installation at this time for the reasons stated.

10 CSR 10-6.100, *Alternate Emission Limits*
This rule is not applicable because the installation is in an ozone attainment area.

Operational Notes
The permittee has elected not to claim an allowance for fuel bound nitrogen at this time. Therefore, the permittee is exempt from fuel nitrogen testing and monitoring requirements of subpart GG. Sections of subpart GG referring to fuel nitrogen testing and monitoring have not been included in this permit condition.

The Energy Center Power Plant facility uses water injection only as a control device.

Construction Permit Revisions
The following revisions were made to construction permits for this installation:
1) **Construction Permit 0181-EPA** authorized the installation of Turbine 2 (EP5).
   a) Special Conditions 1, 2, and 5 pertain to initial and start up testing and have not been included because they have already been completed.
   b) Condition 6 states "The owner or operator of the turbine subject to the provisions of this permit shall monitor the sulfur content of the fuel being fired in the turbine in accordance with 40 CFR 60.334(b)." 40 CFR 60.334(b) was amended since the issuance of this construction permit. In the amended subpart GG, §§60.334(h) and (i) concern monitoring the sulfur content of fuel and are included in Permit Condition 001.

2) **Construction Permit 0395-015** authorized the modification of the Turbines 1 and 2 (EP4 and EP5) to allow the use of natural gas as a secondary fuel. Turbine 2 was previously permitted by Permit 0181-EPA to allow the use of fuel oil only. Turbine 1 was not previously permitted because it was a grandfathered source (constructed prior to permitting regulations).
   a) In the Review Summary of this construction permit it states that 40 CFR Part 60 Subpart GG will apply to these turbines. However, since the permittee entered into a contractual obligation to purchase Turbines 1 and 2 prior to the applicability date (September 10, 1979) of subpart GG and the modification allowed by permit 0395-015 (use of natural gas) did not cause an increase in NOx emissions, subpart GG should not have been applied to this source. Therefore, subpart GG is not applied to Turbines 1 and 2 (EP4 and EP5) in this operating permit.
   b) On June 1, 1995, a No Permit Required letter was issued to the installation by the Air Pollution Control Program allowing the use of distillate fuel oil No. 1 interchangeably with distillate fuel oil No. 2. Condition 3 has been rewritten in this operating permit to state “No fuels other than natural gas or Nos. 1 or 2 fuel oils shall be combusted in the turbines at any time.”
   c) Condition 4 states that records shall be kept on-site for a period of at least two years. Because the current operating permit rule, 10 CSR 10-6.065, requires records to be kept for at least five years, the condition was amended to five years.
   d) Condition 6 states “The notification and recordkeeping requirements of 40 CFR 60.7(c) shall be adhered to as they pertain to 40 CFR 60.334(c). Briefly, this requires that quarterly reports be submitted to the Director, within 30 days after the end of each quarter, detailing any exceedances of applicable emission limits.” 40 CFR 60.334(c) was amended since the issuance of this construction permit. In the amended subpart GG, §60.334(j) concerns the notification and recordkeeping requirements of §60.7(c) and is included in Permit Condition 002.
   e) Condition 7 is not included in this permit because it concerns the Initial Testing which was completed by the permittee in 2000.
   f) This permit listed 10 CSR 10-3.080, *Restriction of Emission of Visible Air Contaminants*, as an applicable rule. However, this regulation was rescinded on May 30, 2000.

3) **Construction Permit 112002-009** authorized the construction of four simple-cycle combustion turbines, Turbines 3A, 3B, 4A, and 4B (EP6 through EP9), and an emergency fire pump (EP10).
   a) This permit was amended on February 17, 2004, to change the PM10 emission limits established by Condition 2.E based upon results of testing. The amended PM10 emission limit of 12 lb/hr when burning fuel oil is included in Permit Condition 007.
   b) Condition 3 is not included in this permit because it concerns the Compliance Testing which was completed by the permittee in 2003.
   c) This permit listed 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*, as an applicable rule. However, per §(1)(A) internal combustion engines operated outside the Kansas City or St. Louis metropolitan areas are exempt from this regulation.
New Source Performance Standards (NSPS) Applicability

1) 40 CFR Part 60 Subpart K, Standards of Performance For Storage Vessels For Petroleum Liquids For Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior To May 19, 1978 and 40 CFR Part 60 Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984 are not applicable to the 5,250,000-gallon storage tank (EP2) or the 420,000-gallon storage tank (EP3) which were constructed in 1978, because the storage tanks store distillate fuels which are not included in the definition of “petroleum liquids”.

2) 40 CFR Part 60 Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 is not applicable to the 180,000-gallon distillate storage tank (EP11) because storage tanks with a capacity greater than or equal to 40,000 gallons (151 m³) which store a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa) are exempt.

3) 40 CFR Part 60, Subpart GG, Standards of Performance for Stationary Gas Turbines
   a) This regulation is not applicable to Turbine 1 (EP4) because the permittee entered into a contractual obligation to purchase Turbine 1 prior to the applicability date (September 10, 1979) of Subpart GG.
   b) This regulation is not applicable to Turbine 2 (EP5) because the permittee entered into a contractual obligation to purchase Turbine 2 prior to the applicability date (September 10, 1979) of Subpart GG. However, because Construction Permit 0181-EPA states that “Although the proposed turbine is not to be subject to the NSPS for gas turbines promulgated September 10, 1979(44 FR 52792), the EPA is requiring that the turbine be installed and operated in accordance with the aforementioned NSPS provisions as a PSD requirement” the installation and operational requirements of subpart GG are included in Permit Condition 001.
   c) This regulation is applicable to Turbines 3A, 3B, 4A, and 4B (EP6 through EP9). However, as shown in the calculations below, the most restrictive NOX emission limits required by subpart GG (75 ppmv) is less stringent than the NOX emission limits established by Construction Permit 112002-009 (25 ppmv when burning gas, 42 ppmv when burning oil).

Allowable Emission Rate per 40 CFR 60.332(a)(1)

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

Where:
STD = allowable NOX emissions (% by volume at 15 percent oxygen and on a dry basis)
Y = manufacturer’s rated heat rate at manufacturer’s rated load (kilojoules per watt hour) or, actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility.

Given that the value of Y shall not exceed 14.4 kilojoules per watt-hour and the installation assumes no fuel bound nitrogen allowance, i.e. F = 0

STD = (0.0075)(14.4/Y) + F
= (0.0075)(14.4/14.4) + 0
= 0.0075 % or 75 ppmv NOX at 15 % oxygen

This limit (75 ppmv) is less stringent than the NOX emission limits established by Construction Permit 112002-009 (25 ppmv when burning gas, 42 ppmv when burning oil) as set forth in Permit Condition 002.
4) 40 CFR Part 60 Subpart KKKK, Standards of Performance for Stationary Combustion Turbine, are not applicable to the combustion turbines (EP4 through EP9) because construction, modification or reconstruction has not commenced after February 18, 2005.

Maximum Achievable Control Technology (MACT) Applicability
This Subpart applies to EP10 – Emergency Fire Pump.

40 CFR Part 63 Subpart YYYY, National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines
This Subpart does not apply to the turbines at this facility because it is not a major source of HAP emissions.

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.

The Combustion Turbines (EP4 through EP9) have the uncontrolled potential to emit NO\(_X\) above the major source threshold levels (as defined by Part 70), and use control devices (as defined by 40 CFR §64.1) to comply with applicable emission. However, the emission units are not required to submit a CAM plan because per §64.2(b)(1)(vi) emission limitations or standards for which a part 70 or 71 permit specifies a continuous compliance determination method, as defined in §64.1 are exempt. Turbines 1 and 2 (EP4 and EP5) each have a continuous monitoring system (CMS) installed to monitor the fuel consumption and ratio of water to fuel being fired in the turbines. Turbines 3A, 3B, 4A, and 4B (EP6 through EP9) each have a NO\(_X\) continuous emission monitor (CEM) installed to monitor NO\(_X\) emissions.
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.

Updated Potential to Emit for the Installation

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Potential to Emit (tons/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>551</td>
</tr>
<tr>
<td>HAP</td>
<td>13.3/5.1 (formaldehyde)</td>
</tr>
<tr>
<td>NOₓ</td>
<td>8,951</td>
</tr>
<tr>
<td>PM₁₀</td>
<td>133</td>
</tr>
<tr>
<td>PM₂.₅</td>
<td>131</td>
</tr>
<tr>
<td>SOₓ</td>
<td>8,629</td>
</tr>
<tr>
<td>VOC</td>
<td>2,447</td>
</tr>
</tbody>
</table>

Assumptions:
- Sulfur content of fuel is limited to 0.8% from CP 0181-EPA for Turbine 1 so this was used with all units.
- When two fuels are possible (natural gas or fuel oil) the worst case PTE is used for each pollutant.
- Turbines 1 and 2 are limited to operating 5,000 hrs/year when burning natural gas (CP 0395-015).
- EP6 through EP9 Turbines are assumed to operate burning natural gas 2,800 hrs/year and fuel oil 500 hrs/year.
- EP6 through EP9 Turbines PM10 is limited to 3 lb/hr when burning natural gas (CP 112002-009).

Other Regulatory Determinations
10 CSR 10-6.260, Restriction of Emission of Sulfur Compounds
The following units have been evaluated for applicability to this rule and determined not applicable:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
<th>Subject to 10CSR 10-6.260</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP6</td>
<td>Turbine 3A</td>
<td>No</td>
<td>Exempt per (1)(A)1. Subject to sulfur limit under 6.070 (Subpart GG)</td>
</tr>
<tr>
<td>EP7</td>
<td>Turbine 3B</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>EP8</td>
<td>Turbine 4A</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>EP9</td>
<td>Turbine 4B</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

These calculations shall be used demonstrate that Turbines 1 and 2 (EU4 and EU5) and Emergency Fire Pump (EU10) are always in compliance with 10 CSR 10-6.260, Restriction of Emission of Sulfur Compounds

Turbines 1 and 2 (EU4 and EU5)
General Equation

\[ ppm_{SO_2} = \frac{SO_2 \text{ Emission Factor (lb/MMBtu)}}{F \text{ factor (wscf/MMBtu)} \times \text{ Conversion Factor (lb/scf)}} \]

1) The SO₂ emission factor distillate oil-fired turbines = 1.015 lb/MMBtu, where S = 0.8 (EPA AP-42 Table 3.1-2a)
2) The F factor is the ratio of gas volume of products of combustion to the heat content of the fuel. For fuel oil the F factor is 10,320 wscf/MMBtu (Part 60 Appendix A Method 19 Table 19-2).

3) Conversion factor for lb/scf to ppmv is 1.660E-7 lb/scf per ppm (Part 60 Appendix A Method 19 Table 19-1).

Compliance Demonstration

\[
ppmv \text{SO}_2 = \left( \frac{0.808 \text{ lb}}{\text{MMBtu}} \right) \left( \frac{\text{MMBtu}}{10,320 \text{ ft}^3} \right) \left( \frac{ppmv}{1.660E^{-7} \text{ lb/scf}} \right) = 471 \text{ppmv} < 500 \text{ppmv}
\]

Fire Pump (EP10) Diesel-fired

General Equation

\[
ppmv \text{SO}_2 = \text{SO}_2 \text{ Emission Factor (lb/ MMBtu)} \div \text{F factor (wscf/ MMBtu)} \div \text{Conversion Factor (lb/scf)}
\]

1) The SO2 emission factor diesel engines < 600 HP = 0.29 lb/ MMBtu (EPA AP-42 Table 3.3-1).

2) The F factor is the ratio of gas volume of products of combustion to the heat content of the fuel. For fuel oil the F factor is 10,320 wscf/MMBtu (Part 60 Appendix A Method 19 Table 19-2).

3) Conversion factor for lb/scf to ppmv is 1.660E-7 lb/scf per ppm (Part 60 Appendix A Method 19 Table 19-1).

Compliance Demonstration

\[
ppmv \text{SO}_2 = \left( \frac{0.29 \text{ lb}}{\text{MMBtu}} \right) \left( \frac{\text{MMBtu}}{10,320 \text{ ft}^3} \right) \left( \frac{ppmv}{1.660E^{-7} \text{ lb/scf}} \right) = 169 \text{ppmv} << 500 \text{ppmv}
\]

10 CSR 10-6.261, Control of Sulfur Dioxide Emissions

The following units have been evaluated for applicability to this rule and determined not applicable:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
<th>Subject to 10 CSR 10-6.261?</th>
<th>Reason not subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP5</td>
<td>Turbine 2</td>
<td>No</td>
<td>Exempt per (1)(C)2. Federally enforceable permit (CP0181-EPA) with more restrictive fuel sulfur limit</td>
</tr>
</tbody>
</table>

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 Empire Energy Center (097-0062) was placed on public notice as of April 27, 2018 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.

No comments were received during the public notice period.
JUN 20 2018

Mr. John Woods
Empire Energy Center
2537 Fir Road
Joplin, MO 64862

Re: Part 70 Operating Permit Renewal
Installation ID: 097-0062. Permit Number: OP2018-053

Dear Mr. Woods:

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

MJS:jwj

Enclosures

PAMS File: 2015-01-035