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: OP2018-025
Expiration Date: MAR 15, 2023
Installation ID: 097-07110
Project Number: 2017-12-045

Installation Name and Address
Carthage Water & Electric Plant
3rd & River Street
Carthage, MO 64836
Jasper County

Installation Description:
Carthage Water & Electric Plant is an electrical generating peaking plant that services the area of Carthage, Missouri. Electricity is generated from a combination of nine dual-fired internal combustion engines. The installation is a major source of Nitrogen Oxides (NOx), Carbon Monoxide (CO), Volatile Organic Compounds (VOCs), Particulate Matter ≤ Ten Microns (PM$_{10}$), and Particulate Matter ≤ 2.5 Microns (PM$_{2.5}$). The installation is an area source of Hazardous Air Pollutants (HAPs).

Prepared by
Kasia Wasescha
Operating Permit Unit

Director or Designee
Department of Natural Resources
 MAR 15, 2018
Effective Date
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MAR 1 5 2018

Mr. Chuck Bryant
Carthage Water & Electric Plant
PO Box 611
Carthage, MO 64836

Re: Carthage Water & Electric Plant, 097-0110
Permit Number: OP2018-025

Dear Mr. Bryant:

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

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

MJS:kwj

Enclosures

c: PAMS File: 2017-12-045
I. Installation Equipment Listing

EMISSION UNITS WITH LIMITATIONS

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

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
<th>Construction Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>E07, EN 06</td>
<td>2 cycle, dual fuel CI Emergency Engine 6 – 25.1 MMBtu/hr dual fuel and 23.4 MMBtu/hr diesel</td>
<td>1946</td>
</tr>
<tr>
<td>E07, EN 07</td>
<td>2 cycle, dual fuel CI Emergency Engine 7 – 29.9 MMBtu/hr dual fuel and 25.7 MMBtu/hr diesel</td>
<td>1949</td>
</tr>
<tr>
<td>E07, EN 08</td>
<td>2 cycle CI Emergency Engine 8 – 30.3 MMBtu/hr diesel</td>
<td>1952</td>
</tr>
<tr>
<td>E07, EN 09</td>
<td>2 cycle, dual fuel CI Emergency Engine 9 – 38.3 MMBtu/hr dual fuel and 44.4 MMBtu/hr diesel</td>
<td>1957</td>
</tr>
<tr>
<td>E07, EN 10</td>
<td>2 cycle, dual fuel CI Emergency Engine 10 – 56.5 MMBtu/hr dual fuel and 58.2 MMBtu/hr diesel</td>
<td>1965</td>
</tr>
<tr>
<td>E07, EN 11</td>
<td>4 cycle, dual fuel CI Engine 11 – 35 MMBtu/hr dual fuel and 40 MMBtu/hr diesel, CPMS, diesel oxidation catalyst</td>
<td>1970</td>
</tr>
<tr>
<td>E07, EN 12</td>
<td>4 cycle, dual fuel CI Engine 12 – 35 MMBtu/hr dual fuel and 40 MMBtu/hr diesel, CPMS, diesel oxidation catalyst</td>
<td>1971</td>
</tr>
<tr>
<td>E07, EN 13</td>
<td>4 cycle, dual fuel CI Engine 13 – 52.9 MMBtu/hr dual fuel and 53.8 MMBtu/hr diesel, CPMS, diesel oxidation catalyst</td>
<td>1974</td>
</tr>
<tr>
<td>E07, EN 14</td>
<td>4 cycle, dual fuel CI Engine 14 – 52.9 MMBtu/hr dual fuel and 53.8 MMBtu/hr diesel, CPMS, diesel oxidation catalyst</td>
<td>1974</td>
</tr>
<tr>
<td>E12, EN 16</td>
<td>Emergency CI Engine 16 – 0.7 MMBtu/hr (99 HP), diesel</td>
<td>2008</td>
</tr>
<tr>
<td>E14</td>
<td>Water Treatment Plant Lime Silo - 0.125 ton/hr</td>
<td></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.

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Description</th>
<th>Construction Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>E01</td>
<td>15,000 gallon Cylinder Oil Tank 5 and 15,000 gallon Lube Oil Tank 6</td>
<td>1964</td>
</tr>
<tr>
<td>E02</td>
<td>1,000,000 gallon Fuel Oil Tank</td>
<td>1973</td>
</tr>
<tr>
<td>E06</td>
<td>Two 489 gallon, two 391 gallon, one 252 gallon, two 309 gallon, and two 516 gallon Fuel Oil Day Tanks</td>
<td>1946 - 1976</td>
</tr>
<tr>
<td>E08</td>
<td>Space Heating - 3.68 MMBtu/hr total, natural gas</td>
<td>1968</td>
</tr>
<tr>
<td>E11</td>
<td>1,000,000 gallon Fuel Oil Tank</td>
<td>2005</td>
</tr>
<tr>
<td>E13, E11CT</td>
<td>Engine #11 Cooling Tower - 18,000 gallon/hr</td>
<td>-</td>
</tr>
<tr>
<td>E13, E12CT</td>
<td>Engine #12 Cooling Tower - 18,000 gallon/hr</td>
<td>-</td>
</tr>
<tr>
<td>E13, E13CT</td>
<td>Engine #13 Cooling Tower - 29,040 gallon/hr</td>
<td>-</td>
</tr>
<tr>
<td>E13, E14CT</td>
<td>Engine #14 Cooling Tower - 29,040 gallon/hr</td>
<td>-</td>
</tr>
<tr>
<td>E13, LFCT</td>
<td>Large Flour Cooling Tower - 240,000 gallon/hr</td>
<td>-</td>
</tr>
<tr>
<td>E13, LMCT</td>
<td>Large Marley Cooling Tower - 336,000 gallon/hr</td>
<td>-</td>
</tr>
</tbody>
</table>
II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. All citations, unless otherwise noted, are to the regulations in effect as of the date that this permit is issued. The plant wide conditions apply to all emission units at this installation. All emission units are listed in Section I under Emission Units with Limitations and Emission Units without Limitations. The following general conditions apply to all units contained in this permit, unless stated otherwise:

**Recordkeeping:**
1. The permittee shall record all required record keeping in an appropriate format.
2. Records may be kept electronically using database or workbook systems, as long as all required information is readily available for compliance determinations.
3. The permittee shall keep a copy of this operating permit and review on site as well as copies of all issued construction permits and reviews on site.
4. All records must be kept for a minimum of 5 years and be made available to Department of Natural Resources’ personnel upon request.

**Performance Testing:**
When performance testing is required by a condition of this permit, one electronic copy of a written report of the performance test results shall be submitted to `stacktesting@dnr.mo.gov` within the timeframe required by the regulation that requires the testing. If no time frame is specified, the report shall be submitted within sixty days. The report shall include legible copies of the raw data sheets, analytical instrument laboratory data, and complete sample calculations from the required U.S. EPA Method for at least one sample run.

**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 (10) 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 reports and the annual compliance certification.
3. All reports and certifications shall be submitted to the Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or `AirComplianceReporting@dnr.mo.gov`. 
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 10-6.070 New Source Performance Regulations
40 CFR Part 60, Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
10 CSR 10-6.075 Maximum Achievable Control Technology Regulations

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12, EN16</td>
<td>Emergency CI Engine 16 – 0.7 MMBtu/hr (99 HP), diesel, 2008</td>
</tr>
</tbody>
</table>

**Standards:**
1. The permittee shall comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants, for the same model year and maximum engine power for E12, EN16. [§60.4205(b)]
2. Emergency stationary CI ICE that conduct performance tests in-use shall meet the NTE standards as indicated in §60.4212. [§60.4205(e)]
3. The permittee shall operate and maintain stationary CI ICE that achieve the emission standards as required in §60.4205 over the entire life of the engine. [§60.4206]
4. The permittee shall certify E12, EN16 to the following emission standards in §89.112: [§60.4202(a)(2)]
   a) 4.7 g/kW-hr NMHC + NOx
   b) 5.0 g/kW-hr CO
   c) 0.40 g/kW-hr PM

**Fuel Requirements:**
1. The permittee shall only use diesel fuel that meets the requirements of §80.510(b) for nonroad diesel fuel. [§60.4207(b)]
   a) All nonroad diesel fuel is subject to the following per-gallon standards: [§80.510(b)]
      i) 15 ppm maximum sulfur content. [§80.510(b)(1)(i)]
      ii) Cetane index or aromatic content as follows: [§80.510(b)(2)]
         1) A minimum cetane index of 40; or [§80.510(b)(2)(i)]
         2) A maximum aromatic content of 35 volume percent. [§80.510(b)(2)(ii)]

**Monitoring:**
The permittee shall install and maintain a non-resettable hour meter prior to startup of the engine. [§60.4209(a)]

**Compliance Requirements:**
1. The permittee shall do all of the following, except as permitted under §60.4211(g): [§60.4211(a)]
   a) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; [§60.4211(a)(1)]
   b) Change only those emission-related settings that are permitted by the manufacturer; and [§60.4211(a)(2)]
   c) Meet the requirements of 40 CFR Parts 89, 94 and/or 1068, as applicable. [§60.4211(a)(3)]
2. The permittee shall certify the engine to the emission standards in §60.4205(b) for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's emission-related specifications, except as permitted in §60.4211(g). [§60.4211(c)]

3. The permittee shall operate the emergency stationary ICE according to the requirements in §60.4211(f)(1) through (3). In order for the engine to be considered an emergency stationary ICE under 40 CFR Part 60, Subpart III, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in §60.4211(f)(1) through (3), is prohibited. If the permittee does not operate the engine according to the requirements in §60.4211(f)(1) through (3), the engine will not be considered an emergency engine under 40 CFR Part 60, Subpart III and shall meet all requirements for non-emergency engines. [§60.4211(f)]
   a) There is no time limit on the use of emergency stationary ICE in emergency situations. [§60.4211(f)(1)]
   b) The permittee may operate the emergency stationary ICE for the purposes specified in §60.4211(f)(2)(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by §60.4211(f)(3) counts as part of the 100 hours per calendar year allowed by this paragraph. [§60.4211(f)(2)]
      i) Emergency stationary ICE 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 Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. [§60.4211(f)(2)(i)]
   c) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in §60.4211(f)(2). Except as provided in §60.4211(f)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [§60.4211(f)(3)]

4. If the permittee does not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee shall demonstrate compliance as follows: [§60.4211(g)]
   a) The permittee shall keep a maintenance plan and records of conducted maintenance to demonstrate compliance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, if the permittee does not install and configure the engine and control device according to the manufacturer's emission-related written instructions, or the permittee changes the emission-related settings in a way that is not permitted by the manufacturer, the permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within one year of such action. [§60.4211(g)(1)]

General Provisions:
The permittee shall comply with the applicable General Provisions found in Table 8 to 40 CFR Part 60, Subpart III for 40 CFR Part 60, Subpart A. [§63.4218]
40 CFR Part 63, Subpart ZZZZ:
The permittee meets the requirements of 40 CFR Part 63, Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart III. No further requirements apply for the engine under 40 CFR Part 63, Subpart ZZZZ. [§63.6590(c)]

PERMIT CONDITION 002
10 CSR 10-6.075 Maximum Achievable Control Technology Regulations

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E07, EN 06</td>
<td>2 cycle, dual fuel CI Emergency Engine 6 – 25.1 MMBtu/hr dual fuel and 23.4 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 07</td>
<td>2 cycle, dual fuel CI Emergency Engine 7 – 29.9 MMBtu/hr dual fuel and 25.7 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 08</td>
<td>2 cycle, CI Emergency CI Engine 8 – 30.3 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 09</td>
<td>2 cycle, dual fuel CI Emergency Engine 9 – 38.3 MMBtu/hr dual fuel and 44.4 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 10</td>
<td>2 cycle, dual fuel CI Emergency Engine 10 – 56.5 MMBtu/hr dual fuel and 58.2 MMBtu/hr diesel</td>
</tr>
</tbody>
</table>

Operational Limitations:
1. The permittee shall operate and maintain the stationary RICE according to the manufacturer’s emission-related written instructions or develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [§63.6625(e)]

2. 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 50 hours per year, as described in paragraphs §63.6640(f)(1) through (4), is prohibited. If the permittee does 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 the purposes specified in paragraph §63.6640(f)(2)(i) 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 owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. [§63.6640(f)(2)(i)]
   c) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are
counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph §63.6640(f)(2). Except as provided in paragraphs §63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [§63.6640(f)(4)]

**General Requirements:**
1. The permittee shall be in compliance with the operating permit limitations and other requirements of MACT ZZZZ that apply at all times. [§63.6605(a)]
2. At all times the permittee shall operate and maintain the affected sources, including any associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by MACT ZZZZ have been achieved. Determination of whether such operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [§63.6605(b)]

**Work Practice Standards:**
1. For each emergency stationary RICE, the permittee shall meet the following requirement, except during periods of startup. [§63.6603(a) & Table 2d of MACT ZZZZ]
   a) Change oil and filter every 500 hours of operation or annually, whichever comes first;
   b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
   c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

**Monitoring:**
The permittee shall install (if not already installed) and maintain a non-resettable meter to track the hours of operation. [§63.6625(f)]

**Recordkeeping:**
1. The permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the stationary RICE and after-treatment control device (if any) were operated and maintained according to the permittee’s own maintenance plan. [§63.6655(e)]
2. The permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [§63.6655(f)]

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1 The permittee has 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.
PERMIT CONDITION 003
10 CSR 10-6.075 Maximum Achievable Control Technology Regulations

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E07, EN 11</td>
<td>4 cycle, dual fuel CI Engine 11 – 35 MMBtu/hr dual fuel and 40 MMBtu/hr diesel, CPMS, diesel oxidation catalyst</td>
</tr>
<tr>
<td>E07, EN 12</td>
<td>4 cycle, dual fuel CI Engine 12 – 35 MMBtu/hr dual fuel and 40 MMBtu/hr diesel, CPMS, diesel oxidation catalyst</td>
</tr>
<tr>
<td>E07, EN 13</td>
<td>4 cycle, dual fuel CI Engine 13 – 52.9 MMBtu/hr dual fuel and 53.8 MMBtu/hr diesel, CPMS, diesel oxidation catalyst</td>
</tr>
<tr>
<td>E07, EN 14</td>
<td>4 cycle, dual fuel CI Engine 14 – 52.9 MMBtu/hr dual fuel and 53.8 MMBtu/hr diesel, CPMS, diesel oxidation catalyst</td>
</tr>
</tbody>
</table>

Emission and Operating Limitations:
1. Compliance with the numerical emission limitations established in 40 CFR Part 63, Subpart ZZZZ is based on the results of testing the average of three one-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to 40 CFR Part 63, Subpart ZZZZ. [§63.6603]
   a) The permittee shall comply with the requirements in Table 2d to 40 CFR Part 63, Subpart ZZZZ and the operating limitations in Table 2b to 40 CFR Part 63, Subpart ZZZZ that apply. [§63.6603(a)]

Table 2d to 40 CFR Part 63, Subpart ZZZZ

<table>
<thead>
<tr>
<th>For each . . .</th>
<th>The permittee shall meet the following requirement, except during periods of startup . . .</th>
<th>During periods of startup the permittee shall . . .</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Emergency, non-black start CI stationary RICE &gt;500 HP (1.27 MMBtu/hr)</td>
<td>a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O₂; or b. Reduce CO emissions by 70 percent or more.</td>
<td>Minimize the engine’s time spent at idle and minimize the engine’s startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.</td>
</tr>
</tbody>
</table>

Table 2b to 40 CFR Part 63, Subpart ZZZZ

<table>
<thead>
<tr>
<th>For each . . .</th>
<th>The permittee shall meet the following operating limitation, except during periods of startup . . .</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing CI stationary RICE &gt;500 HP (1.27 MMBtu/hr) complying with the requirement to limit or reduce the concentration of CO in the stationary RICE exhaust and using an oxidation catalyst.</td>
<td>a. maintain the catalyst so that the pressure drop across the catalyst does not change by more than two inches of water from the pressure drop across the catalyst that was measured during the initial performance test; and b. maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450°F and less than or equal to 1350°F.²</td>
</tr>
</tbody>
</table>

² Sources can petition the Administrator pursuant to the requirements of §63.8(f) for a different temperature range.
**General Compliance Requirements:**

1. The permittee shall be in compliance with the emission limitations, operating limitations, and other requirements in 40 CFR Part 63, Subpart ZZZZ that apply at all times. [§63.6605(a)]

2. At all times the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [§63.6605(b)]

**Testing Requirements:**

1. The permittee shall conduct subsequent performance tests as specified in Table 3 of 40 CFR Part 63, Subpart ZZZZ. [§63.6615]

2. The permittee shall conduct each performance test in Tables 3 and 4 of 40 CFR Part 63, Subpart ZZZZ that applies. [§63.6620(a)]

Table 3 to 40 CFR Part 63, Subpart ZZZZ

<table>
<thead>
<tr>
<th>For each...</th>
<th>Complying with the requirement to...</th>
<th>The permittee shall...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing non-emergency, non-black start CI stationary RICE &gt;500 HP (1.27 MMBtu/hr) that are not limited use stationary RICE.</td>
<td>Limit or reduce CO emissions and not using a CEMS.</td>
<td>Conduct subsequent performance tests every 8,760 hours or three years, whichever comes first.</td>
</tr>
<tr>
<td>For each</td>
<td>Complying with the requirement to...</td>
<td>The permittee shall...</td>
</tr>
<tr>
<td>----------</td>
<td>------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>CI stationary RICE.</td>
<td>a. Reduce CO emissions</td>
<td>i. Measure the O₂ at the inlet and outlet of the control device; and ii. Measure the CO at the inlet and the outlet of the control device</td>
</tr>
<tr>
<td>Stationary RICE.</td>
<td>a. Limit the concentration of CO in the stationary RICE exhaust.</td>
<td>i. Select the sampling port location and the number of traverse points; and ii. Determine the O₂ concentration of the stationary RICE exhaust at the sampling port location; and iii. Measure moisture content of the stationary RICE exhaust at the sampling port location; and iv. Measure CO at the exhaust of the stationary RICE.</td>
</tr>
</tbody>
</table>

3. Each performance test shall be conducted according to the requirements that 40 CFR Part 63, Subpart ZZZZ specifies in Table 4 to 40 CFR Part 63, Subpart ZZZZ. The permittee does not need to start up a non-operational engine solely to conduct the performance test. The permittee may conduct the performance test when the engine is started up again.

³ Incorporated by reference, see §63.14. The permittee may also obtain copies from University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.
⁴ ASTM–D6522–00 (2005) may be used to test both CI and SI stationary RICE.
⁵ The permittee may also use Method 320 of 40 CFR Part 63, Appendix A, or ASTM D6348–03.
4. The permittee shall conduct three separate test runs for each performance test required in §63.6620, as specified in §63.7(e)(3). Each test run must last at least one hour, unless otherwise specified in 40 CFR Part 63, Subpart ZZZZ. [§63.6620(d)]

5. The permittee shall use Equation 1 of §63.6620 to determine compliance with the percent reduction requirement:

\[
\frac{C_i - C_o}{C_i} \times 100 = R \quad \text{(Equation 1)}
\]

Where:
- \(C_i\) = concentration of CO at the control device inlet,
- \(C_o\) = concentration of CO at the control device outlet, and
- \(R\) = percent reduction of CO emissions. [§63.6620(e)(1)]

6. The permittee shall normalize the CO concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent \(O_2\), or an equivalent percent \(CO_2\). If pollutant concentrations are to be corrected to 15 percent \(O_2\) and \(CO_2\) concentration is measured in lieu of \(O_2\) concentration measurement, a \(CO_2\) correction factor is needed. Calculate the \(CO_2\) correction factor as follows: [§63.6620(e)(2)]

a) Calculate the fuel-specific \(F_0\) value for the fuel burned during the test using values obtained from Method 19, §5.2, and the following equation:

\[
F_0 = \frac{0.209F_d}{F_c} \quad \text{(Equation 2)}
\]

Where:
- \(F_0\) = Fuel factor based on the ratio of \(O_2\) volume to the ultimate \(CO_2\) volume produced by the fuel at zero percent excess air.
- \(0.209\) = Fraction of air that is \(O_2\), percent/100.
- \(F_d\) = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, \(dsm^3/J (dscf/10^6\text{ Btu})\).
- \(F_c\) = Ratio of the volume of \(CO_2\) produced to the gross calorific value of the fuel from Method 19, \(dsm^3/J (dscf/10^6\text{ Btu})\) [§63.6620(e)(2)(i)]

b) Calculate the \(CO_2\) correction factor for correcting measurement data to 15 percent \(O_2\), as follows:

\[
X_{CO_2} = \frac{5.9}{F_0} \quad \text{(Equation 3)}
\]

Where:
- \(X_{CO_2}\) = \(CO_2\) correction factor, percent.
- \(5.9\) = 20.9 percent \(O_2\) - 15 percent \(O_2\), the defined \(O_2\) correction value, percent. [§63.6620(e)(2)(ii)]

c) Calculate the CO gas concentration adjusted to 15 percent \(O_2\) using \(CO_2\) as follows:

\[
C_{adj} = C_d \times \frac{X_{CO_2}}{\%CO_2} \quad \text{(Equation 4)}
\]

Where:
- \(C_{adj}\) = Calculated concentration of CO adjusted to 15 percent \(O_2\).
- \(C_d\) = Measured concentration of CO uncorrected.
- \(X_{CO_2}\) = \(CO_2\) correction factor, percent.
- \(\%CO_2\) = Measured \(CO_2\) concentration measured, dry basis, percent. [§63.6620(e)(3)(iii)]

7. The engine percent load during a performance test shall be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination shall be included in the notification of compliance status. The following information shall be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the
model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided. [§63.6620(i)]

**Monitoring, Installation, Collection, Operation, and Maintenance Requirements:**

1. The permittee shall install, operate, and maintain each CPMS according to the following requirements: [§63.6625(b)]
   a) The permittee shall prepare and maintain a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in §63.6625(b)(1)(i) through (v) and in §63.8(d). As specified in §63.8(f)(4), the permittee may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in §63.6625(b)(1) through (5) in the site-specific monitoring plan. [§63.6625(b)(1)]
   i) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations; [§63.6625(b)(1)(i)]
   ii) Sampling interface (e.g., thermocouple) location such that the monitoring system will provide representative measurements; [§63.6625(b)(1)(ii)]
   iii) Equipment performance evaluations, system accuracy audits, or other audit procedures; [§63.6625(b)(1)(iii)]
   iv) Ongoing operation and maintenance procedures in accordance with provisions in §63.8(c)(1)(ii) and (3); and [§63.6625(b)(1)(iv)]
   v) Ongoing reporting and recordkeeping procedures in accordance with provisions in §63.10(c), (e)(1), and (e)(2)(i). [§63.6625(b)(1)(v)]
   b) The permittee shall install, operate, and maintain each CPMS in continuous operation according to the procedures in the site-specific monitoring plan. [§63.6625(b)(2)]
   c) The CPMS shall collect data at least once every 15 minutes (see also §63.6635). [§63.6625(b)(3)]
   d) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8°C (5°F) or one percent of the measurement range, whichever is larger. [§63.6625(b)(4)]
   e) The permittee shall conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in the permittee's site-specific monitoring plan at least annually. [§63.6625(b)(5)]
   f) The permittee shall conduct a performance evaluation of each CPMS in accordance with the site-specific monitoring plan. [§63.6625(b)(6)]

2. Each engine that is not yet equipped with a closed crankcase ventilation system shall comply with either §63.6625(g)(1) or (2). The permittee shall follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. [§63.6625(g)]
   a) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or [§63.6625(g)(1)]
   b) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals. [§63.6625(g)(2)]

3. The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Table 2d to 40 CFR Part 63, Subpart ZZZZ apply. [§63.6625(h)]
Continuous Compliance Requirements:
1. Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the permittee shall monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. [§63.6635(b)]

2. The permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The permittee shall, however, use all the valid data collected during all other periods. [§63.6635(c)]

3. The permittee shall demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 2b and 2d to 40 CFR Part 63, Subpart ZZZZ that apply according to methods specified in Table 6 to 40 CFR Part 63, Subpart ZZZZ. [§63.6640(a)]

4. The permittee shall report each instance in which the permittee did not meet each emission limitation or operating limitation in Tables 2b and 2d to 40 CFR Part 63, Subpart ZZZZ that apply. These instances are deviations from the emission and operating limitations in 40 CFR Part 63, Subpart ZZZZ. These deviations shall be reported according to the requirements in §63.6650. If the permittee changes catalyst, the permittee shall reestablish the values of the operating parameters measured during the initial performance test. When the permittee reestablishes the values of the operating parameters, the permittee shall also conduct a performance test to demonstrate that the permittee is meeting the required emission limitation applicable to the stationary RICE. [§63.6640(b)]

5. The annual compliance demonstration required for the engines shall be conducted according to the following requirements: [§63.6640(c)]
   a) The compliance demonstration must consist of at least one test run. [§63.6640(c)(1)]
   b) Each test run must be of at least 15 minute duration, except that each test conducted using the method in Appendix A to 40 CFR Part 63, Subpart ZZZZ shall consist of at least one measurement cycle and include at least two minutes of test data phase measurement. [§63.6640(c)(2)]
   c) If the permittee is demonstrating compliance with the CO concentration or CO percent reduction requirement, the permittee shall measure CO emissions using one of the CO measurement methods specified in Table 4 of 40 CFR Part 63, Subpart ZZZZ, or using Appendix A to 40 CFR Part 63, Subpart ZZZZ. [§63.6640(c)(3)]
   d) The permittee shall measure \( O_2 \) using one of the \( O_2 \) measurement methods specified in Table 4 of 40 CFR Part 63, Subpart ZZZZ. Measurements to determine \( O_2 \) concentration shall be made at the same time as the measurements for CO or THC concentration. [§63.6640(c)(5)]
   e) If the permittee is demonstrating compliance with the CO percent reduction requirement, the permittee shall measure CO emissions and \( O_2 \) emissions simultaneously at the inlet and outlet of the control device. [§63.6640(c)(6)]
   f) If the results of the annual compliance demonstration show that the emissions exceed the levels specified in Table 6 of 40 CFR Part 63, Subpart ZZZZ, the stationary RICE shall be shut down as soon as safely possible, and appropriate corrective action must be taken (e.g., repairs, catalyst cleaning, catalyst replacement). The stationary RICE shall be retested within seven days of being restarted and the emissions shall meet the levels specified in Table 6 of 40 CFR Part 63, Subpart ZZZZ. If the retest shows that the emissions continue to exceed the specified levels, the stationary RICE shall again be shut down as soon as safely possible, and the stationary RICE may not operate, except for purposes of startup and testing, until the permittee demonstrates through testing that the emissions do not exceed the levels specified in Table 6 of 40 CFR Part 63, Subpart ZZZZ. [§63.6640(c)(7)]

6. The permittee shall also report each instance in which the permittee did not meet the requirements in Table 8 to 40 CFR Part 63, Subpart ZZZZ (see MACT ZZZZ for Table 8) that apply. [§63.6640(e)]
Table 5 to 40 CFR Part 63, Subpart ZZZZ

<table>
<thead>
<tr>
<th>For each...</th>
<th>Complying with the requirement to...</th>
<th>The permittee shall demonstrate continuous compliance by...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing stationary CI RICE &gt;500 HP (1.27 MMBtu/hr) that are not limited use stationary RICE.</td>
<td>a. Reduce CO emissions, or limit the concentration of CO in the stationary RICE exhaust, and using oxidation catalyst.</td>
<td>i. Conducting performance tests every 8,760 hours or three years, whichever comes first, for CO to demonstrate that the required CO percent reduction is achieved or that the emissions remain at or below the CO concentration limit; and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>iii. Reducing these data to four-hour rolling averages; and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>iv. Maintaining the four-hour rolling averages within the operating limitations for the catalyst inlet temperature; and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.</td>
</tr>
</tbody>
</table>

**General Provisions:**
The permittee shall comply with the applicable General Provisions in Table 8 to 40 CFR Part 63, Subpart ZZZZ for 40 CFR Part 63, Subpart A applicability (see MACT ZZZZ for Table 8). [§63.6665]

**Notifications, Reports, and Records:**
1. The permittee shall submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply by the dates specified. [§63.6645(a)]
2. If the permittee is required to conduct a performance test, the permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in §63.7(b)(1). [§63.6645(g)]
3. If the permittee is required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to 40 CFR Part 63, Subpart ZZZZ, the permittee shall submit a Notification of Compliance Status according to §63.9(h)(2)(ii). [§63.6645(h)]
4. The permittee shall submit each report in Table 7 of 40 CFR Part 63, Subpart ZZZZ that applies. [§63.6650(a)]
Table 6 to 40 CFR Part 63, Subpart ZZZZ

<table>
<thead>
<tr>
<th>For each ...</th>
<th>The permittee shall submit a ...</th>
<th>The report shall contain ...</th>
<th>The permittee shall submit the report ...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing non-emergency, non-black start stationary CI RICE &gt;300 HP (0.76 MMBtu/hr) located at an area source of HAP</td>
<td>Compliance report</td>
<td>a. If there are no deviations from any emission limitations or operating limitations that apply, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS(^6), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were not periods during which the CMS was out-of-control during the reporting period; or</td>
<td>i. Semi-annually according to the requirements in §63.6650(b)(1) - (5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b. If a deviation occurred from any emission limitation or operating limitation during the reporting period, the information in §63.6650(d). If there were periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), the information in §63.6650(e); or</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>c. If a malfunction occurred during the reporting period, the information in §63.6650(c)(4).</td>
<td></td>
</tr>
</tbody>
</table>

5. Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), the permittee shall submit each report by the date in Table 7 of 40 CFR Part 63, Subpart ZZZZ and according to the following requirements: [§63.6650(b)]

a) For semi-annual Compliance reports, the first Compliance report shall cover the period beginning on the compliance date that is specified for the affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for the source in §63.6595. [§63.6650(b)(1)]

b) The first compliance report shall be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for the affected source in §63.6595. [§63.6650(b)(2)]

c) Each subsequent Compliance report shall cover the semi-annual reporting period from January 1 through June 30 or the semi-annual reporting period from July 1 through December 31. [§63.6650(b)(3)]

d) Each subsequent Compliance report shall be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semi-annual reporting period. [§63.6650(b)(4)]

e) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR Part 70, and if the permitting authority has established dates for submitting semi-annual reports pursuant to §70.6(a)(3)(iii)(A), the permittee may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in §63.6650(b)(1) through (b)(4). [§63.6650(b)(5)]

6. The compliance report shall contain the following information: [§63.6650(c)]

\(^6\) CMS (continuous monitoring system) includes all CPMS (continuous parameter monitoring system).
a) Company name and address. [§63.6650(c)(1)]

b) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report. [§63.6650(c)(2)]

c) Date of report and beginning and ending dates of the reporting period. [§63.6650(c)(3)]

d) If a malfunction occurred during the reporting period, the compliance report shall include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report shall also include a description of actions taken by the permittee during a malfunction of an affected source to minimize emissions in accordance with §63.6605(b), including actions taken to correct a malfunction. [§63.6650(c)(4)]

e) If there are no deviations from any emission or operating limitations that apply, a statement that there were no deviations from the emission or operating limitations during the reporting period. [§63.6650(c)(5)]

f) If there were no periods during which the continuous monitoring system (CMS), including-CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period. [§63.6650(c)(6)]

7. For each deviation from an emission or operating limitation that occurs for a stationary RICE where the permittee is not using a CMS to comply with the emission or operating limitations in 40 CFR Part 63, Subpart ZZZZ, the Compliance report shall contain the information in §63.6650(c)(1) through (4) and the following information: [§63.6650(d)]

a) The total operating time of the stationary RICE at which the deviation occurred during the reporting period. [§63.6650(d)(1)]

b) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken. [§63.6650(d)(2)]

8. For each deviation from an emission or operating limitation occurring for a stationary RICE where the permittee is using a CMS to comply with the emission and operating limitations in 40 CFR Part 63, Subpart ZZZZ, the permittee shall include the information in §63.6650(c)(1) through (4) and the following information: [§63.6650(e)]

a) The date and time that each malfunction started and stopped. [§63.6650(e)(1)]

b) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks. [§63.6650(e)(2)]

c) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8). [§63.6650(e)(3)]

d) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period. [§63.6650(e)(4)]

e) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period. [§63.6650(e)(5)]

f) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes. [§63.6650(e)(6)]

g) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period. [§63.6650(e)(7)]

h) An identification of each parameter and pollutant (CO) that was monitored at the stationary RICE. [§63.6650(e)(8)]

i) A brief description of the stationary RICE. [§63.6650(e)(9)]

j) A brief description of the CMS. [§63.6650(e)(10)]

k) The date of the latest CMS certification or audit. [§63.6650(e)(11)]
l) A description of any changes in CMS, processes, or controls since the last reporting period. [§63.6650(e)(12)]

9. The permittee shall report all deviations as defined in 40 CFR Part 63, Subpart ZZZZ in the semi-annual monitoring report required by §70.6 (a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of 40 CFR Part 63, Subpart ZZZZ along with, or as part of, the semi-annual monitoring report required by §70.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in 40 CFR Part 63, Subpart ZZZZ, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semi-annual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority. [§63.6650(f)]

10. The permittee shall keep the records described in §63.6655(a)(1) through (5), (b)(1) through (3) and (c). [§63.6655(a)]
   a) A copy of each notification and report that the permittee submitted to comply with 40 CFR Part 63, Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that the permittee submitted, according to the requirement in §63.10(b)(2)(xiv). [§63.6655(a)(1)]
   b) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. [§63.6655(a)(2)]
   c) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii). [§63.6655(a)(3)]
   d) Records of all required maintenance performed on the air pollution control and monitoring equipment. [§63.6655(a)(4)]
   e) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), 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)(5)]

11. For each CPMS, the permittee shall keep the following records: [§63.6655(b)]
   a) Records described in §63.10(b)(2)(vi) through (xi). [§63.6655(b)(1)]
   b) Previous (i.e., superseded) versions of the performance evaluation plan as required in §63.8(d)(3). [§63.6655(b)(2)]
   c) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable. [§63.6655(b)(3)]

12. The permittee shall retain the records required in Table 6 of 40 CFR Part 63, Subpart ZZZZ to show continuous compliance with each emission or operating limitation that applies. [§63.6655(d)]

13. Records shall be in a form suitable and readily available for expeditious review according to §63.10(b)(1). [§63.6660(a)]

14. As specified in §63.10(b)(1), the permittee shall retain each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [§63.6660(b)]

15. The permittee shall retain each record readily accessible in hard copy or electronic form for at least five years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). [§63.6660(c)]
PERMIT CONDITION 004A
10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E07, EN 06</td>
<td>2 cycle, dual fuel CI Engine 6 - 25.1 MMBtu/hr dual fuel and 23.4 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 07</td>
<td>2 cycle, dual fuel CI Engine 7 - 29.9 MMBtu/hr dual fuel and 25.7 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 08</td>
<td>2 cycle CI Engine 8 - 30.3 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 09</td>
<td>2 cycle, dual fuel CI Engine 9 - 38.3 MMBtu/hr dual fuel and 44.4 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 10</td>
<td>2 cycle, dual fuel CI Engine 10 - 56.5 MMBtu/hr dual fuel and 58.2 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 11</td>
<td>4 cycle, dual fuel CI Engine 11 - 35 MMBtu/hr dual fuel and 40 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 12</td>
<td>4 cycle, dual fuel CI Engine 12 - 35 MMBtu/hr dual fuel and 40 MMBtu/hr diesel</td>
</tr>
</tbody>
</table>

**Emission Limitation:**
The permittee shall not cause or permit the emission into the atmosphere gases containing more than 2,000 ppmv of $\text{SO}_2$ or more than 70 mg/m$^3$ of sulfuric acid or sulfur trioxide or any combination of these gases averaged on any consecutive three-hour time period.

**Monitoring/Recordkeeping:**
As required by Permit Condition 005A.

PERMIT CONDITION 004B
10 CSR 10-6.260 Restriction of Emission of Sulfur Compounds

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E07, EN 13</td>
<td>4 cycle, dual fuel CI Engine 13 - 52.9 MMBtu/hr dual fuel and 53.8 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 14</td>
<td>4 cycle, dual fuel CI Engine 14 - 52.9 MMBtu/hr dual fuel and 53.8 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E12, EN16</td>
<td>Emergency Engine 16 - 0.7 MMBtu/hr diesel</td>
</tr>
</tbody>
</table>

**Emission Limitation:**
The permittee shall not cause or permit the emission into the atmosphere gases containing more than 500 ppmv of $\text{SO}_2$ or more than 35 mg/m$^3$ of sulfuric acid or sulfur trioxide or any combination of these gases averaged on any consecutive three-hour time period.

**Monitoring/Recordkeeping:**
As required by Permit Condition 005A.

**Compliance:**
E12, EN16 will always be in compliance with this permit condition while adhering to NSPS IIII and thus the monitoring/recordkeeping requirements of this permit condition are not required for this engine. See Statement of Basis.

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7 This regulation was rescinded from Missouri Code of State Regulations on November 30, 2015 but it still remains in the EPA-approved SIP and thus still remains an applicable regulation. Upon adoption of 10 CSR 10-6.261 into Missouri’s SIP, 10 CSR 10-6.260 will be removed from the SIP and thus this rule will no longer be applicable to the installation. Upon removal of 10 CSR 10-6.260 from the SIP, Permit Conditions 004A and 004B shall no longer be enforceable. No action is required on the part of the permittee to remove these conditions from the operating permit.
PERMIT CONDITION 005A
10 CSR 10-6.261 Control of Sulfur Dioxide Emissions

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E07, EN 06</td>
<td>2 cycle, dual fuel CI Engine 6 - 25.1 MMBtu/hr dual fuel and 23.4 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 07</td>
<td>2 cycle, dual fuel CI Engine 7 - 29.9 MMBtu/hr dual fuel and 25.7 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 08</td>
<td>2 cycle CI Engine 8 - 30.3 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 09</td>
<td>2 cycle, dual fuel CI Engine 9 - 38.3 MMBtu/hr dual fuel and 44.4 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 10</td>
<td>2 cycle, dual fuel CI Engine 10 - 56.5 MMBtu/hr dual fuel and 58.2 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 11</td>
<td>4 cycle, dual fuel CI Engine 11 - 35 MMBtu/hr dual fuel and 40 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 12</td>
<td>4 cycle, dual fuel CI Engine 12 - 35 MMBtu/hr dual fuel and 40 MMBtu/hr diesel</td>
</tr>
</tbody>
</table>

Note: As of issuance of this permit, 10 CSR 10-6.261 is a State Only requirement.

Operational Limitation:
Fuel sulfur content will not contain more than 35,249 parts per million (ppm,) of sulfur 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 maintain a record of data, calculations, results, records and reports from any performance test, continuous emission monitoring, fuel deliveries, and/or fuel sampling tests.
3. 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 preformed on these systems or devices.
4. If the permittee is using fuel delivery records for compliance they 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.

8 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. No action on the part of the permittee is needed to revise the operating permit.
PERMIT CONDITION 005B
10 CSR 10-6.261 Control of Sulfur Dioxide Emissions

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E07, EN 13</td>
<td>4 cycle, dual fuel CI Engine 13 - 52.9 MMBtu/hr dual fuel and 53.8 MMBtu/hr diesel</td>
</tr>
<tr>
<td>E07, EN 14</td>
<td>4 cycle, dual fuel CI Engine 14 - 52.9 MMBtu/hr dual fuel and 53.8 MMBtu/hr diesel</td>
</tr>
</tbody>
</table>

Note: As of issuance of this permit, 10 CSR 10-6.261 is a State Only requirement.

Operational Limitation:
Fuel sulfur content will not contain more than 8,812 parts per million (ppm,) of sulfur 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 maintain a record of data, calculations, results, records and reports from any performance test, continuous emission monitoring, fuel deliveries, and/or fuel sampling tests.
3. 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 preformed on these systems or devices.
4. If the permittee is using fuel delivery records for compliance they 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.
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 10-6.050 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 10-6.080 Emission Standards for Hazardous Air Pollutants and 40 CFR Part 61
Subpart M National Emission Standard for Asbestos
The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.

10 CSR 10-6.110 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 10-6.250 Asbestos Abatement Projects – Certification, Accreditation, and Business Exemption Requirements

This is a State Only permit requirement.
The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos abatement projects to be certified by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the department to monitor training provided to employees.

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
10 CSR 10-6.065(6)(E)3.C Extension of Expired Permits
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, Compliance and Enforcement Section, P. O. Box 176, Jefferson City, MO 65102.
   b) The permittee shall submit a report of all required monitoring by:
      i) October 1st for monitoring which covers the January through June time period, and
      ii) April 1st for monitoring which covers the July through December time period.
   c) Each report shall identify any deviations from emission limitations, monitoring, record keeping, reporting, or any other requirements of the permit, this includes deviations or Part 64 exceedances.
   d) Submit supplemental reports as required or as needed. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
      i) Notice of any deviation resulting from an emergency (or upset) condition as defined in paragraph (6)(C)7.A of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if the permittee wishes to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and the permittee can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must contain a description of the emergency, the steps taken to mitigate emissions, and the corrective actions taken.
      ii) Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
      iii) Any other deviations identified in the permit as requiring more frequent reporting than the permittee's semiannual report shall be reported on the schedule specified in this permit.
   e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a
certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.

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

10 CSR 10-6.065(6)(C)1.D Risk Management Plan Under Section 112(r)
If the installation is required to develop and register a risk management plan pursuant to Section 112(R) of the Act, the permittee will verify that it has complied with the requirement to register the plan.

10 CSR 10-6.065(6)(C)1.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, Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and Part 64 exceedances and excursions must be included in the compliance certifications. The compliance certification shall include the following:
   a) The identification of each term or condition of the permit that is the basis of the certification;
   b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation;
   c) Whether compliance was continuous or intermittent;
   d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period; and
   e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

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

1) Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date that this permit is issued, provided that:
   a) The applicable requirements are included and specifically identified in this permit, or
   b) The permitting authority, in acting on the permit revision or permit application, determines in writing that other requirements, as specifically identified in the permit, are not applicable to the installation, and this permit expressly includes that determination or a concise summary of it.

2) Be aware that there are exceptions to this permit protection. The permit shield does not affect the following:
   a) The provisions of section 303 of the Act or section 643.090, RSMo concerning emergency orders,
   b) Liability for any violation of an applicable requirement which occurred prior to, or was existing at, the time of permit issuance,
   c) The applicable requirements of the acid rain program,
   d) The authority of the Environmental Protection Agency and the Air Pollution Control Program of the Missouri Department of Natural Resources to obtain information, or
e) Any other permit or extra-permit provisions, terms or conditions expressly excluded from the permit shield provisions.

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

1) An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7.A shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:

   a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
   
   b) That the installation was being operated properly,
   
   c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
   
   d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.

2) Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

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

An installation that has been issued a Part 70 operating permit is not required to apply for or obtain a permit revision in order to make any of the changes to the permitted installation described below if the changes are not Title I modifications, the changes do not cause emissions to exceed emissions allowable under the permit, and the changes do not result in the emission of any air contaminant not previously emitted. The permittee shall notify the Air Pollution Control Program, Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, at least seven days in advance of these changes, except as allowed for emergency or upset conditions. Emissions allowable under the permit means a federally enforceable permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit (including a work practice standard) or a federally enforceable emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

1) Section 502(b)(10) changes. Changes that, under section 502(b)(10) of the Act, contravene an express permit term may be made without a permit revision, except for changes that would violate applicable requirements of the Act or contravene federally enforceable monitoring (including test methods), record keeping, reporting or compliance requirements of the permit.

   a) Before making a change under this provision, The permittee shall provide advance written notice to the Air Pollution Control Program, Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219, describing the changes to be made, the date on which the change will occur, and any changes in emission and any permit terms and conditions that are affected. The permittee shall maintain a copy of the notice with the permit, and the APCP shall place a copy with the permit in the public file. Written notice shall be provided to the EPA and the APCP as above at least seven days before the change is to be made. If less than seven days notice is provided because of a need to respond more quickly to these unanticipated conditions, the permittee shall provide notice to the EPA and the APCP as soon as possible after learning of the need to make the change.

   b) The permit shield shall not apply to these changes.
10 CSR 10-6.065(6)(C)9 Off-Permit Changes

1) Except as noted below, the permittee may make any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Insignificant activities listed in the permit, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. Off-permit changes shall be subject to the following requirements and restrictions:
   a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; the permittee may not change a permitted installation without a permit revision if this change is subject to any requirements under Title IV of the Act or is a Title I modification;
   b) The permittee must provide contemporaneous written notice of the change to the Air Pollution Control Program, Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as well as EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219. This notice shall not be required for changes that are insignificant activities under 10 CSR 10-6.065(6)(B)3 of this rule. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change.
   c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes; and
   d) The permit shield shall not apply to these changes.

10 CSR 10-6.020(2)(R)34 Responsible Official

The application utilized in the preparation of this permit was signed by Chuck Bryant, General Manager. 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 shall 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**

None.
STATEMENT OF BASIS

INSTALLATION DESCRIPTION

Carthage Water & Electric Plant is an electrical generating peaking plant that services the area of Carthage, Missouri. Electricity is generated from a combination of nine dual-fired internal combustion engines. The installation is a major source of Nitrogen Oxides (NOx), Carbon Monoxide (CO), Volatile Organic Compounds (VOC), Particulate Matter ≤ Ten Microns (PM10), and Particulate Matter ≤ 2.5 Microns (PM2.5). The installation is an area source of Hazardous Air Pollutants (HAP). It is not on the list of named installations as defined in 10 CSR 10-6.020.

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>PM10</td>
<td>105.67</td>
</tr>
<tr>
<td>PM2.5</td>
<td>104.20</td>
</tr>
<tr>
<td>Sulfur Oxides (SO2)</td>
<td>43.88</td>
</tr>
<tr>
<td>Nitrogen Oxides (NOx)</td>
<td>2,777.71</td>
</tr>
<tr>
<td>Volatile Organic Compounds (VOCs)</td>
<td>91.01</td>
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<tr>
<td>Carbon Monoxide (CO)</td>
<td>737.67</td>
</tr>
<tr>
<td>Hazardous Air Pollutants (HAPs)</td>
<td>1.40</td>
</tr>
<tr>
<td>Benzene (71-43-2)</td>
<td>0.67</td>
</tr>
<tr>
<td>Hexane (110-54-3)</td>
<td>0.03</td>
</tr>
</tbody>
</table>

Reported Air Pollutant Emissions, tons per year

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate Matter ≤ Ten Microns (PM10)</td>
<td>1.34</td>
<td>2.62</td>
<td>1.29</td>
<td>2.11</td>
<td>3.88</td>
</tr>
<tr>
<td>Particulate Matter ≤ 2.5 Microns (PM2.5)</td>
<td>1.00</td>
<td>1.67</td>
<td>0.84</td>
<td>1.37</td>
<td>2.57</td>
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<tr>
<td>Sulfur Oxides (SO2)</td>
<td>1.24</td>
<td>0.55</td>
<td>0.41</td>
<td>0.60</td>
<td>1.19</td>
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<tr>
<td>Nitrogen Oxides (NOx)</td>
<td>27.18</td>
<td>21.57</td>
<td>11.46</td>
<td>22.33</td>
<td>70.23</td>
</tr>
<tr>
<td>Volatile Organic Compounds (VOC)</td>
<td>0.44</td>
<td>0.54</td>
<td>0.36</td>
<td>0.62</td>
<td>3.33</td>
</tr>
<tr>
<td>Carbon Monoxide (CO)</td>
<td>0.18</td>
<td>0.50</td>
<td>0.18</td>
<td>0.39</td>
<td>7.36</td>
</tr>
<tr>
<td>Hazardous Air Pollutants (HAPs)</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

Each emission unit was evaluated at 8,760 hours of uncontrolled annual operation unless otherwise noted.
- The dual-fired engines 6, 7, and 9 – 14 were evaluated based upon their worst-case fuel for each pollutant.
- Emergency Engines 6 – 10, 16 were evaluated at 500 hours of annual operation due to their emergency use only designation.
Permit Reference Documents
These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

1) Part 70 Operating Permit Application, received December 21, 2017;
2) 2016 Emissions Inventory Questionnaire, received April 25, 2017;
3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition; and
4) WebFIRE.

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.

None.

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

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

10 CSR 10-6.360, *Control of NOx Emissions From Large Stationary Internal Combustion Engines*
This rule does not apply. The installation does operate large stationary internal combustion engines; however, the installation is Jasper county which is not one of the applicable counties in 10 CSR 10-6.390(1).

10 CSR 10-6.400, *Restriction of Emission of Particulate Matter From Industrial Process*
This rule does not apply. E08 Space Heating as indirect heating is exempt from this regulation per 10 CSR 10-6.400(1)(B)6. E13 Cooling Towers as fugitive emissions are exempt from this regulation per 10 CSR 10-6.400(1)(B)7. E14 Water Treatment Plant Lime Silo is exempt from this regulation per 10 CSR 10-6.400(1)(B)12 as potential PM emissions are less than 0.5 lb/hr. The engines do not meet the definition of process weight in 10 CSR 10-6.400(2)(A) which excludes liquids and gas used solely as fuels and introduced for the purposes of combustion.

10 CSR 10-6.405, *Restriction of Particulate Matter Emissions From Fuel Burning Equipment Used For Indirect Heating*
This rule does not apply. 10 CSR 10-6.405 exempts installation’s fueled only by natural gas and fuel oil #2 containing less than 1.2 percent sulfur.

Construction Permit History
All of the equipment at the installation is either grandfathered or was installed under a construction permit exemption. The installation has no construction permits from the Air Pollution Control Program.
New Source Performance Standards (NSPS) Applicability


This subpart does not apply. E01 15,000 gallon Cylinder Oil Tank 5 and 15,000 gallon Lube Oil Tank 6 were installed in 1964 prior to the applicable dates of this standard. E02 1,000,000 gallon Fuel Oil Tank is not subject to the standard as fuel oil #2 is excluded from the definition of petroleum liquids in §60.111. E06 two 489 gallon, two 391 gallon, one 252 gallon, two 309 gallon, and two 516 gallon Fuel Oil Day Tanks are not applicable to this standard per §60.110(a) as they each have a capacity of less than 40,000 gallons.


This subpart does not apply. E11 1,000,000 gallon Fuel Oil Tank is not applicable to this standard per §60.110b as the tank exceeds 151 m3 capacity and stores a liquid with a maximum true vapor pressure less than 15.0 kPa [AP-42 Table 7.1-2 lists the true vapor pressure of fuel oil #2 to be 0.016 psi (0.11 kPa) at 90°F].

40 CFR Part 60, Subpart III – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

This subpart applies to E12, EN16 Emergency Engine 16 and has been applied within this permit (see Permit Condition 001). This regulation is not applicable to E07 Engines 6 – 14 as they were installed between 1946 and 1974, prior to the construction date of July 11, 2005, in §60.4200(a)(2).

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

This subpart does not apply. This subpart applies to engines that are spark ignition. None of the engines at the installation are spark ignition.

Maximum Achievable Control Technology (MACT) Applicability


This subpart does not apply. The installation does not meet the applicability requirements of §63.400(a) as the installation is not a major source of HAP.


This subpart is applicable to all of the engines at the installation (see Permit Conditions 003, 004 and 005).

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

None.
Compliance Assurance Monitoring (CAM) Applicability

40 CFR Part 64, Compliance Assurance Monitoring (CAM)
The CAM rule applies to each pollutant specific emission unit that:

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

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

Greenhouse Gas Emissions
Note that this source may be 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. If applicable, the applicant is required to report the data directly to EPA. If applicable, the public may obtain CO2 emissions data for this installation by visiting http://epa.gov/ghgreporting/ghgd Data/reportingdatasets.html.

Other Regulatory Determinations

10 CSR 10-6.220, Restriction of Emission of Visible Air Contaminants
This rule is applicable E14 Water Treatment Plant Lime Silo and E13 Cooling Towers, but has not been applied within this permit. E14 has potential PM emissions of less than 0.5 lb/hr while being properly maintained and operated; therefore, it is assumed to be in compliance. E13 is subject to this regulation; however, the large amounts of water vapor emitted make it difficult to determine if/how much visible contaminant is being emitted. The Air Pollution Control Program is not requiring any monitoring, recordkeeping, or reporting for E13 or E14 at this time, but should visible emissions become an issue, these requirements may be added in the future. All of the internal combustion engines at the installation are exempt from this regulation per 10 CSR 10-6.220(1)(A).

10 CSR 10-6.260, Restriction of Emission of Sulfur Compounds
This rule is applicable to all of the internal combustion engines and has been applied within this permit. E08 Space Heating is exempt from this regulation per 10 CSR 10-6.260(1)(A)2 as they exclusively combust pipeline grade natural gas. This rule was rescinded from the Missouri Code of State Regulations on November 30, 2015 but is still in the EPA-approved SIP and is thus still an applicable federal requirement.

While applicable to engine E12, EN16, this engine is subject to a more stringent sulfur limitation in NSPS III that ensures compliance with 10 CSR 10-6.260. As a result, monitoring/recordkeeping is not required while subject to the sulfur limitations of NSPS III.

10 CSR 10-6.261, Control of Sulfur Dioxide Emissions
This rule applies to all of the internal combustion engines and has been applied within this permit, except for E12, EN16 due to meeting exemption 10 CSR 10-6.261(1)(C)1 for having more stringent sulfur limitations from NSPS III. Natural gas-fueled units (E08) are exempt from this rule per
6.261(1)(A). Once 10 CSR 10-6.261 is incorporated into the SIP it will become a federal requirement.

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 operating permit draft was put up on public notice on January 26, 2018 for a period of 30 days. During the public notice period no public comments were received.