

MISSOURI
 DEPARTMENT OF
 NATURAL RESOURCES
 Air Pollution Control Program

PERMIT TO OPERATE INTERMEDIATE STATE

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.

Intermediate Operating Permit Number: OP2018-088
Expiration Date: OCT 04 2023
Installation ID: 115-0021
Project Number: 2018-06-036

Installation Name and Address

Marceline Municipal Utility
 126 E. Chicago Street
 Marceline, MO 64658
 Linn County

Installation Description:

Marceline Municipal Utility is under contract with a local electricity distribution facility to ease capacity load on the grid during emergencies. The installation consists of four electrical power generating internal combustion engines and one No. 2 (diesel) fuel oil storage tank. The installation was formerly a basic state installation due to a history of their engines being limited use engines or emergency-use. Because of their updated contract, their engines are no longer limited-use or emergency-use. As a result, the installation has upgraded to an intermediate installation and accepted a voluntary limitation on nitrogen oxides (NO_x).

Kendall B. Hale for

 Director or Designee
 Department of Natural
 Resources

OCT 04 2018

 Effective Date

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I. Installation Equipment Listing

EMISSION UNITS WITH LIMITATIONS

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

Emission Source	Description
EP4	Engine #2: compression ignition, installed 1992 (manufactured 1968), fueled by diesel, 36.5 MMBtu/hr Installed with diesel oxidation catalyst to reduce CO, and a CPMS which records inlet temperature and pressure drop across catalyst
EP5	Engine #1: compression ignition, installed 1989 (manufactured 1955), fueled by diesel, 11.86 MMBtu/hr Installed with diesel oxidation catalyst to reduce CO, and a CPMS which records inlet temperature and pressure drop across catalyst
EP6	Engine #5: compression ignition, constructed 3/8/04, fueled by diesel, 18.84 MMBtu/hr Installed with diesel oxidation catalyst to reduce CO, and a CPMS which records inlet temperature and pressure drop across catalyst
	Engine #6: compression ignition, constructed 3/8/04, fueled by diesel, 18.84 MMBtu/hr Installed with diesel oxidation catalyst to reduce CO, and a CPMS which records inlet temperature and pressure drop across catalyst

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.

Emission Source	Description
EP1	Diesel Fuel Tank, 10,000 gal

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.

PERMIT CONDITION PW001

10 CSR 10-6.020(2)(I)23. and 10 CSR 10-6.065(5)(C)2. Voluntary Limitation(s)

Emission Limitation:

The permittee shall emit less than 100 tons of nitrogen dioxide (NO_x) in any consecutive 12-month period from the entire installation.

Monitoring/Recordkeeping:

- 1) The permittee shall use Attachment A or an equivalent to track monthly and 12-month rolling total NO_x emissions from the entire installation.
- 2) The permittee shall maintain all records for a minimum of five years.
- 3) All records shall be made immediately available for inspection to Department of Natural Resources' personnel upon request.

Reporting:

- 1) The permittee shall report to the Air Pollution Control Program's Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten days after an exceedance of the emission limitation.
- 2) The permittee shall report any deviations from the requirements of this permit condition in the annual compliance certification required by Section V of this permit.

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 10-6.260, Restriction of Emission of Sulfur Compounds ¹	
Emission Source	Description
EP4	Engine #2: compression ignition, installed 1992 (manufactured 1968), fueled by diesel, 36.5 MMBtu/hr Installed with diesel oxidation catalyst to reduce CO, and a CPMS which records inlet temperature and pressure drop across catalyst
EP5	Engine #1: compression ignition, installed 1989 (manufactured 1955), fueled by diesel, 11.86 MMBtu/hr Installed with diesel oxidation catalyst to reduce CO, and a CPMS which records inlet temperature and pressure drop across catalyst
EP6	Engine #5: compression ignition, constructed 3/8/04, fueled by diesel, 18.84 MMBtu/hr Installed with diesel oxidation catalyst to reduce CO, and a CPMS which records inlet temperature and pressure drop across catalyst
	Engine #6: compression ignition, constructed 3/8/04, fueled by diesel, 18.84 MMBtu/hr Installed with diesel oxidation catalyst to reduce CO, and a CPMS which records inlet temperature and pressure drop across catalyst

Emission Limitation:

- 1) The permittee shall not cause or permit the emission into the atmosphere gases containing more than 2,000 ppmv of SO₂ or more than 70 mg/m³ of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three-hour time period for EP4. [10 CSR 10-6.260(3)(A)1.]
- 2) The permittee shall not cause or permit the emission into the atmosphere gases containing more than 500 ppmv of SO₂ or more than 35 mg/m³ of sulfuric acid or sulfur trioxide or any combination of those gases averaged on any consecutive three-hour time period for EP5 and EP6. [10 CSR 10-6.260(3)(A)2.]

Monitoring/Recordkeeping:

- 1) The permittee shall maintain fuel purchase receipts indicating the sulfur content of the diesel.
- 2) The permittee shall maintain all records for a minimum of five years.
- 3) All records shall be made immediately available for inspection to Department of Natural Resources' personnel upon request.

¹ 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 6.260 will be removed from the SIP and thus this rule will no longer be applicable to the installation. No action on the part of the permittee is needed to revise the operating permit. Upon removal of 10 CSR 10-6.260 from the SIP, Permit Condition 001 shall no longer be enforceable.

Reporting:

- 1) The permittee shall report to the Air Pollution Control Program’s Compliance and Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov, no later than ten days after an exceedance of the emission limitation.
- 2) The permittee shall report any deviations from the requirements of this permit condition in the annual compliance certification required by Section V of this permit.

PERMIT CONDITION 002	
10 CSR 10-6.075, Maximum Achievable Control Technology Regulations 40 CFR Part 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	
Emission Source	Description
EP4	Engine #2: compression ignition, installed 1992 (manufactured 1968), fueled by diesel, 36.5 MMBtu/hr Installed with diesel oxidation catalyst to reduce CO, and a CPMS which records inlet temperature and pressure drop across catalyst
EP5	Engine #1: compression ignition, installed 1989 (manufactured 1955), fueled by diesel, 11.86 MMBtu/hr Installed with diesel oxidation catalyst to reduce CO, and a CPMS which records inlet temperature and pressure drop across catalyst
EP6	Engine #5: compression ignition, constructed 3/8/04, fueled by diesel, 18.84 MMBtu/hr Installed with diesel oxidation catalyst to reduce CO, and a CPMS which records inlet temperature and pressure drop across catalyst
	Engine #6: compression ignition, constructed 3/8/04, fueled by diesel, 18.84 MMBtu/hr Installed with diesel oxidation catalyst to reduce CO, and a CPMS which records inlet temperature and pressure drop across catalyst

Non-Emergency Engine Requirements

The permittee shall meet the applicable notification requirements in §63.6645 and in 40 CFR Part 63, Subpart A. [§63.6595(c)]

Emission Limitations:

- 1) 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 – Requirements for Existing Stationary RICE located at area sources of HAP Emissions

For each...	The permittee shall meet the following requirement, except during periods of startup...	During periods of startup the permittee shall...
3. Non-emergency, non-black start CI stationary RICE >500 HP	a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O ₂ ; or	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.
	b. Reduce CO emissions by 70 percent or more.	

Table 2b to 40 CFR Part 63, Subpart ZZZZ – Operating Limitations for Existing CI Stationary RICE >500 HP

For each...	The permittee shall meet the following operating limitation, except during periods of startup...
2. Existing CI stationary RICE >500 HP complying with the requirement to limit or reduce the concentration of CO in the stationary RICE exhaust and using an oxidation catalyst.	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 ² ; 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. ³

Fuel Requirements:

- 1) Existing non-emergency, non-black start CI stationary RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that use diesel fuel shall only use diesel fuel that meets the requirements in §80.510(b) for nonroad diesel fuel: [§63.6604(a)]
 - a) A maximum sulfur content of 15 ppm; [§80.510(b)(i)]
 - b) A minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. [§80.510(b)(2)(i) and (ii)]

General 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 40 CFR Part 63, Subpart ZZZZ 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)]

² During the initial performance test, Engines #2 (EP4), #5 (EP6), and #6 (EP6) had an average pressure differential of 2.0 in w.c. and Engine #1 (EP5) had an average pressure differential of 1.4 in w.c.

³ The permittee can petition the Administrator pursuant to the requirements of §63.8(f) for a different temperature range.

Table 4 to 40 CFR Part 63, Subpart ZZZZ – Requirements for Performance Tests

For each...	Complying with the requirement to...	The permittee shall...	Using...	According to the following requirements...
1. CI stationary RICE.	a. reduce CO emissions.	i. Measure the O ₂ at the inlet and outlet of the control device; and	(1) Method 3 or 3A or 3B of 40 CFR Part 60, Appendix A, or ASTM Method D6522–00 (Reapproved 2005). ^{4,5}	(a) Measurements to determine O ₂ shall be made at the same time as the measurements for CO concentration.
		ii. Measure the CO at the inlet and the outlet of the control device.	(1) ASTM D6522–00 (Reapproved 2005) ^{4,5,6} or Method 10 of 40 CFR Part 60, Appendix A.	(a) The CO concentration shall be at 15 percent O ₂ , dry basis.
3. Stationary RICE.	a. limit the concentration of CO in the stationary RICE exhaust.	i. Select the sampling port location and the number of traverse points; and	(1) Method 1 or 1A of 40 CFR Part 60, Appendix A §63.7(d)(1)(i).	(a) if using a control device, the sampling site shall be located at the outlet of the control device.
		ii. Determine the O ₂ concentration of the stationary RICE exhaust at the sampling port location; and	(1) Method 3 or 3A or 3B of 40 CFR Part 60, Appendix A, or ASTM Method D6522–00 (Reapproved 2005). ⁴	(a) measurements to determine O ₂ concentration shall be made at the same time and location as the measurements for CO concentration.
		iii. Measure moisture content of the stationary RICE exhaust at the sampling port location; and	(1) Method 4 of 40 CFR Part 60, Appendix A, or Test Method 320 of 40 CFR Part 63, Appendix A, or ASTM D 6348–03. ⁴	(a) measurements to determine moisture content shall be made at the same time and location as the measurements for CO concentration.
		v. measure CO at the exhaust of the stationary RICE.	(1) Method 10 of 40 CFR Part 60, Appendix A, ASTM Method D6522–00 (2005), ^{4,5} Method 320 of 40 CFR Part 63, Appendix A, or ASTM D6348–03. ⁴	(a) CO concentration shall be at 15 percent O ₂ , dry basis. Results of this test consist of the average of the three one-hour or longer runs.

⁴ Incorporated by reference, see §63.14. The permittee may also obtain copies from University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

⁵ ASTM–D6522–00 (2005) may be used to test both CI and SI stationary RICE.

⁶ The permittee may also use Method 320 of 40 CFR Part 63, Appendix A, or ASTM D6348–03.

Table 5 to Subpart ZZZZ of Part 63—Initial Compliance With Emission Limitations, Operating Limitations, and Other Requirements

For each...	Complying with the requirement to...	The permittee has demonstrated initial compliance if...
1. Existing non-emergency stationary CI RICE >500 HP located at an area source of HAP	a. Reduce CO emissions and using oxidation catalyst, and using a CPMS	i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and ii. The permittee has installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and iii. The permittee has recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
2. Existing non-emergency stationary CI RICE >500 HP located at an area source of HAP	a. Limit the concentration of CO, using oxidation catalyst, and using a CPMS	i. The average CO concentration determined from the initial performance test is less than or equal to the CO emission limitation; and
		ii. The permittee has installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and
		iii. The permittee has recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.

Testing:

- 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 all performance tests in accordance with §63.6620 Performance Test Methods and Procedures.
- 3) The permittee shall install, operate, and maintain each CPMS according to the requirements in §63.6625(b)(1) through (6). [§63.6625(b)]
 - a) The permittee shall prepare 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 shall 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 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)]
- 4) Existing non-emergency, non-black start CI engine greater than or equal to 300 HP that are not 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)]
- 5) 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)]

Table 3 to 40 CFR Part 63, Subpart ZZZZ – Subsequent Performance Tests

For each...	Complying with the requirement to...	The permittee shall...
4. Existing non-emergency, non-black start CI stationary RICE >500 HP that are not limited use stationary RICE.	Limit or reduce CO emissions and not using a CEMS.	Conduct subsequent performance tests every 8,760 hours or three years, whichever comes first.

Continuous Compliance Requirements:

- 1) The permittee shall monitor and collect data according to §63.6635. [§63.6635(a)]
- 2) 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)]
- 3) 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)]
- 4) 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 ZZZ that apply according to methods specified in Table 6 to 40 CFR Part 63, Subpart ZZZZ. [§63.6640(a)]
- 5) 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)]
- 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 that apply. [§63.6640(e)]

General Provisions:

The permittee shall refer to Table 8 to 40 CFR Part 63, Subpart ZZZZ for 40 CFR Part 63, Subpart A applicability. [§63.6665]

Table 6 to 40 CFR Part 63, Subpart ZZZZ – Continuous Compliance with Emission Limitations and Other Requirements

For each...	Complying with the requirement to...	The permittee shall demonstrate continuous compliance by...
10. Existing stationary CI RICE >500 HP that are not limited use stationary RICE.	a. Reduce CO emissions, or limit the concentration of CO in the stationary RICE exhaust, and using oxidation catalyst.	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 ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and iii. Reducing these data to four-hour rolling averages; and iv. Maintaining the four-hour rolling averages within the operating limitations for the catalyst inlet temperature; and 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.

Notifications:

- 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) 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) The permittee shall submit a Notification of Compliance Status according to §63.9(h)(2)(ii). [§63.6645(h)]
 - a) For each initial compliance demonstration required in Table 5 to 40 CFR Part 63, Subpart ZZZZ that does not include a performance test, the permittee shall submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration. [§63.6645(h)(1)]
 - b) For each initial compliance demonstration required in Table 5 to 40 CFR Part 63, Subpart ZZZZ that includes a performance test conducted according to the requirements in Table 3 to 40 CFR Part 63, Subpart ZZZZ, the permittee submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to §63.10(d)(2). [§63.6645(h)(2)]

Recordkeeping/Reporting:

- 1) The permittee shall submit each report in Table 7 of 40 CFR Part 63, Subpart ZZZZ that applies. [§63.6650(a)]
- 2) 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) 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) Each subsequent Compliance report shall cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. [§63.6650(b)(3)]
- c) 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 semiannual reports pursuant to §70.6(a)(3)(iii)(A), the permittee shall submit the first and subsequent Compliance reports with their semi-annual monitoring report required by Section V of this permit. [§63.6650(b)(5)]
- 3) The Compliance report shall contain the following information: [§63.6650(c)]
 - 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 the 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)]
- 4) 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 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)]
- 5) Each affected source that has obtained a Title V operating permit pursuant to 40 CFR Part 70 shall report all deviations as defined in 40 CFR Part 63, Subpart ZZZZ in the semiannual 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 semiannual 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 semiannual 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)]
- 6) The permittee shall keep the records described in §63.6655(a)(1) through (a)(5), (b)(1) through (b)(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)]
- 7) 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 CPMS as required in §63.8(f)(6)(i), if applicable. [§63.6655(b)(3)]
- 8) The permittee shall keep 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)]
- 9) Records shall be in a form suitable and readily available for expeditious review according to §63.10(b)(1). [§63.6660(a)]
- 10) As specified in §63.10(b)(1), the permittee shall keep each record for five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [§63.6660(b)]
- 11) The permittee shall keep 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)]
- 12) All records shall be maintained for five years and shall be made immediately available for inspection to Department of Natural Resources' personnel upon request.

13) The permittee shall submit applicable reports as specified in §63.6650 to the Missouri Air Compliance Coordinator at EPA Region VII, 11201 Renner Blvd., Lenexa, KS 66219 and shall send copies to the Missouri Air Pollution Control Program’s Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102 or AirComplianceReporting@dnr.mo.gov.

Table 7 to 40 CFR Part 63, Subpart ZZZZ – Requirements for Reports

For each...	The permittee shall submit a...	The report shall contain...	The permittee shall submit the report...
1. Existing non-emergency, non-black start stationary CI RICE >300 HP located at an area source of HAP	Compliance report	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, including 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	i. Semiannually according to the requirements in §63.6650(b)(1) – (5) for engines that are not limited use stationary RICE subject to numerical emission limitations; and
		b. If the permittee had a deviation 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 CPMS, was out-of-control, as specified in §63.8(c)(7), the information in §63.6650(e); or	i. Semiannually according to the requirements in §63.6650(b).
		c. If a malfunction occurred during the reporting period, the information in §63.6650(c)(4).	i. Semiannually according to the requirements in §63.6650(b).

IV. Core Permit Requirements

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

10 CSR 10-6.045 Open Burning Requirements

- 1) General Provisions. The open burning of tires, petroleum-based products, asbestos containing materials, and trade waste is prohibited, except as allowed below. Nothing in this rule may be construed as to allow open burning which causes or constitutes a public health hazard, nuisance, a hazard to vehicular or air traffic, nor which violates any other rule or statute.
- 2) Certain types of materials may be open burned provided an open burning permit is obtained from the director. The permit will specify the conditions and provisions of all open burning. The permit may be revoked if the owner or operator fails to comply with the conditions or any provisions of the permit.

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

- 1) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the director within two business days, in writing, the following information:
 - a) Name and location of installation;
 - b) Name and telephone number of person responsible for the installation;
 - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
 - d) Identity of the equipment causing the excess emissions;
 - e) Time and duration of the period of excess emissions;
 - f) Cause of the excess emissions;
 - g) Air pollutants involved;
 - h) Estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;
 - i) Measures taken to mitigate the extent and duration of the excess emissions; and
 - j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- 2) The permittee shall submit the paragraph 1 information to the director in writing at least ten days prior to any maintenance, start-up or shutdown activity which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, notice shall be given as soon as practicable prior to the activity.
- 3) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph 1 list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under section 643.080 or 643.151, RSMo.

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

10 CSR 10-6.060 Construction Permits Required

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

10 CSR 10-6.065 Operating Permits

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

10 CSR 10-6.080 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 submit a full EIQ for the 2017 and 2020 reporting years. In the interim years the installation may submit a Reduced Reporting Form; however, if the installation's emissions increase or decrease by more than five tons when compared to their last submitted full EIQ, the installation shall submit a full EIQ rather than a Reduced Reporting Form.
- 4) In addition to the EIQ submittal schedule outlined above, any permit issued under 10 CSR 10-6.060 section (5) or (6) triggers a requirement that a full EIQ be submitted in the first full calendar year after the permitted equipment initially operates.

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.

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”;
 - 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, §(5)(C)1, §(6)(C)1.B, §(5)(E)2.C Permit Duration

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed. If a timely and complete application for a permit renewal is submitted, but the Air Pollution Control Program fails to take final action to issue or deny the renewal permit before the end of the term of this permit, this permit shall not expire until the renewal permit is issued or denied.

10 CSR 10-6.065, §(5)(C)1 and §(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) April 1st for monitoring which covers the January through December time period.
 - ii) Exception. Monitoring requirements which require reporting more frequently than annually shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
 - c) Each report shall identify any deviations from emission limitations, monitoring, record keeping, reporting, or any other requirements of the permit.
 - 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 §(5)(C)1 and §(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(5)(C)1.A 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 under this rule.
- 6) Failure to comply with the limitations and conditions that qualify the installation for an Intermediate permit make the installation subject to the provisions of 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit.

10 CSR 10-6.065(5)(C)1.C Reasonably Anticipated Operating Scenarios

None.

10 CSR 10-6.065, §(5)(B)4; §(5)(C)1, §(6)(C)3.B; and §(6)(C)3.D; and §(5)(C)3 and §(6)(C)3.E.(I) – (III) and (V) – (VI) 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, §(5)(C)1 and §(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(5)(C)5 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. 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 a Title I modification; Please Note: Changes at the installation which affect the emission limitation(s) classifying the installation as an intermediate source (add additional equipment to the record keeping requirements, increase the emissions above major source level) do not qualify for off-permit changes.
 - 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 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; and
 - 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.

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

The application utilized in the preparation of this permit was signed by Bobby Dean Gauthier, Electric Superintendent. 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, §(5)(E)4 and §(6)(E)6.A(III)(a)-(c) Reopening-Permit for Cause

This permit shall be reopened for cause if:

- 1) The Missouri Department of Natural Resources (MoDNR) or the Environmental Protection Agency (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,
- 2) 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,
- 3) MoDNR or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

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

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

VI. Attachments

Attachments follow.

STATEMENT OF BASIS

Voluntary Limitations

In order to qualify for this Intermediate State Operating Permit, the permittee has accepted voluntary, federally enforceable emission limitations. Per 10 CSR 10-6.065(5)(C)1.A.(VI), if these limitations are exceeded, the installation immediately becomes subject to 10 CSR 10-6.065(6) and enforcement action for operating without a valid part 70 operating permit. It is the permittee's responsibility to monitor emission levels and apply for a part 70 operating permit far enough in advance to avoid this situation. This may mean applying more than eighteen months in advance of the exceedance, since it can take that long or longer to obtain a part 70 operating permit.

INSTALLATION DESCRIPTION

Marceline Municipal Utility is under contract with a local electricity distribution facility to ease capacity load on the grid during emergencies. The installation consists of four electrical power generating internal combustion engines and one No. 2 (diesel) fuel oil storage tank. The installation was formerly a basic state installation due to a history of their engines being limited use engines or emergency-use. Because of their updated contract, their engines are no longer limited-use or emergency-use. As a result, the installation has upgraded to an intermediate installation and accepted a voluntary limitation on nitrogen oxides (NO_x).

Engines #3 and #4 have been removed from the installation and scrapped for parts. Two diesel fuel tanks out of the three have been removed and scrapped for parts. EP5 Engine #1 and EP4 Engine #2 are dual fuel capable, but the gas lines and meter have been physically removed, and the installation does not plan to return to natural gas. As a result, the engines were treated as only capable of burning diesel for the sake of potential-to-emit calculations.

Reported Air Pollutant Emissions and Potential to Emit (PTE), tons per year

Pollutants	PTE¹¹	2011¹²
Particulate Matter ≤ Ten Microns (PM ₁₀)	1.79	< 0.01
Particulate Matter ≤ 2.5 Microns (PM _{2.5})	1.72	< 0.01
Sulfur Oxides (SO _x)	1.26	0.06
Nitrogen Oxides (NO _x)	< 100	0.17
Volatile Organic Compounds (VOC)	2.70	0.01
Carbon Monoxide (CO)	26.48	0.04
Hazardous Air Pollutants (HAPs)	< 0.01	0.00
Lead (Pb)	--	< 0.01

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) Intermediate Operating Permit Application, received June 22, 2018;
- 2) 2017 Emissions Inventory Questionnaire, received January 22, 2018;
- 3) U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition;
- 4) Construction Permit 072003-020, issued July 31, 2003;
- 5) Construction Permit 0792-026, issued June 18, 1992;
- 6) Construction Permit 0190-006, issued January 1, 1990.

Construction Permit History

Construction Permit 072003-020, issued July 31, 2003

This permit was for the installation of diesel engines #5 and #6 (EP6) to generate electricity for peaking purposes. This permit contains two special conditions.

- Permit Condition 1 supersedes all special conditions in previously issued construction permits (0190-006 and 0792-026).

¹¹ Each emission unit was evaluated at 8,760 hours of uncontrolled annual operation unless otherwise noted. PTE is scaled down with respect to the NO_x limitation. Scaling was not applied to the working loss on the diesel tanks. PTE does not include fugitive emissions.

¹² The permittee has submitted reduced EIQs since their last full EIQ in 2011 due to previously being classified as a basic state installation.

- Permit Condition 2 limits the installation to less than 250 tons of NO_x per 12 month period. This condition was not incorporated into the operating permit because Permit Condition PW001 is more stringent.

Construction Permit 0792-026, issued June 18, 1992

This permit was for the installation of two engines. It contains three special conditions. This construction permit has been superseded by 072003-020.

Construction Permit 0190-006, issued January 1, 1990

This permit was issued for a standby diesel generator. It contained four special conditions. This construction permit has been superseded by 072003-020.

Missouri Code of State Regulations (CSR) Applicability

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 10-6.170, *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*

This rule applies. However, visible emissions are not expected to go beyond the property boundaries because the emission sources have low potential to emit particulate matter. As a result, monitoring and recordkeeping requirements are not included in the permit for this regulation.

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

This regulation does not apply. The PM-emitters are internal combustion engines, which are exempt from the rule per (1)(A).

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

This rule applies to the engines and has been applied within this permit.

If sulfur content is below the 15 ppm limit, the engine will be in compliance with Permit Condition 001 as demonstrated by the following calculations:

SO₂:

$$\text{SO}_2 \text{ Emission Factor (lbs/MMBtu)} = \frac{7.05 \frac{\text{lb}}{\text{gal}} \times 0.0015 \text{ wt\% S} \times 1000 \frac{\text{gal}}{\text{Mgal}}}{137 \frac{\text{MMBtu}}{10^3 \text{ gal}}} = 0.077 \text{ lb/MMBtu}$$

(AP-42 Appendix A (September 1985))

$$\text{ppmv SO}_2 = \left(\frac{0.077 \text{ lb}}{\text{MMBtu}} \right) \times \left(\frac{\text{MMBtu}}{10,320 \text{ wscf}} \right) \times \left(\frac{\text{ppmw}}{1.660E^{-7} \text{ lb/scf}} \right) \times \left(\frac{64 \text{ lb moles SO}_2}{32 \text{ lb moles S}} \right) = 90 \text{ ppmv}$$

(Appendix A-7 to Part 60)

90 ppm_v is below the 2,000 ppm_v and 500 ppm_v limits.

10 CSR 10-6.261, *Control of Sulfur Dioxide Emissions*

This rule does not apply. The engines are exempt per (1)(C) due to being subject to a more stringent sulfur limitation under MACT ZZZZ.

10 CSR 10-6.360, *Control of NO_x Emissions from Electric Generating Units and Non-Electric Generating Boilers*

This rule does not apply. Linn County is not listed as an applicable county.

10 CSR 10-6.390, *Control of NO_x Emissions From Large Stationary Internal Combustion Engines*

This rule does not apply. Linn County is not listed as an applicable county.

10 CSR 10-6.400, *Restriction of emission of Particulate Matter From Industrial Processes*

This rule does not apply. The engines do not meet the definition of 'process weight' in 10 CSR 10-6.020. As a result, this rule is not applicable to the engines.

New Source Performance Standards (NSPS) Applicability

40 CFR Part 60, Subparts K, Ka, Kb – *Standards of Performance for Storage Vessels for Petroleum Liquids*

These subparts do not apply to the diesel storage tank. The smallest tank size covered by these subparts is 19,813 gallons. The diesel storage tank has a capacity of 10,000 gallons.

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

This subpart does not apply. The engines were constructed before the applicability dates.

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

This subpart does not apply. The engines are compression ignition. This subpart applies only to spark ignition engines.

Maximum Achievable Control Technology (MACT) Applicability

40 CFR Part 63, Subpart ZZZZ – *National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*

This subpart applies to the engines. The engines are non-emergency use and are thus subject to emission limitations on CO emissions. The installation has installed a catalyst and a CPMS and conducted initial performance testing in order to comply with this subpart. As of issuance of this permit, Engines #1 and #2 were last tested on May 19, 2017. Engines #5 and #6 were last tested May 5, 2017. Continuous compliance with this subpart requires subsequent performance testing as detailed in Permit Condition 002.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Applicability

None.

Greenhouse Gas Emissions

The installation is mostly likely a minor source of GHGs. There are no currently issued GHG regulations applicable to this installation. Missouri regulations do not require the installation to report CO_{2e} emissions in their Missouri Emissions Inventory Questionnaire; therefore, the installation's CO_{2e} emissions were not included within this permit.

Other Regulatory Determinations

None.

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

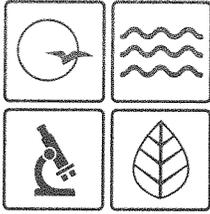
Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons:

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 August 24, 2018 for a period of 30 days. During this period no public comments were received.



Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Michael L. Parson, Governor

Carol S. Comer, Director

OCT 04 2018

Mr. Bobby Dean Gauthier
Marceline Municipal Utility
116 N. Main St. USA
Marceline, MO 64658

Re: Marceline Municipal Utility, 115-0021
Permit Number: OP2018-088

Dear Mr. Gauthier:

Enclosed with this letter is your intermediate 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: 2018-06-036



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