

PART 70 PERMIT TO OPERATE

Operating Permit Number: OP2013-040B
Installation Name: Carthage Water & Electric
Installation ID: 097-0110
Project Number: 2016-04-041

Description of Part 70 Modification:

Carthage Water & Electric submitted a request dated April 14, 2016 for the reclassification of engines #6 through #10 (E07 EN06, E07 EN07, E07 EN08, E07 EN09, E07 EN10) to emergency engines. The following permit condition has been added to Part 70 Operating Permit OP2013-040:

PERMIT CONDITION 006

10 CSR 10-6.075 Maximum Achievable Control Technology Regulations
40 CFR Part 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for
Stationary Reciprocating Internal Combustion Engines

Emission Unit	Description
E07, EN 06	2 cycle, dual fuel, rich burn Emergency Engine 6 - 25.1 MMBtu/hr dual fuel and 23.4 MMBtu/hr diesel
E07, EN 07	2 cycle, dual fuel, rich burn Emergency Engine 7 - 29.9 MMBtu/hr dual fuel and 25.7 MMBtu/hr diesel
E07, EN 08	2 cycle, rich burn Emergency Engine 8 - 30.3 MMBtu/hr diesel
E07, EN 09	2 cycle, dual fuel, rich burn Emergency Engine 9 - 38.3 MMBtu/hr dual fuel and 44.4 MMBtu/hr diesel
E07, EN 10	2 cycle, dual fuel, rich burn Emergency Engine 10 - 56.5 MMBtu/hr dual fuel and 58.2 MMBtu/hr diesel

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 you do not operate the engine according to the requirements in paragraphs §63.6640(f)(1) through (4), the engine will not be considered an emergency engine under 40 CFR 63 Subpart ZZZZ and must meet all requirements for non-emergency engines. [§63.6640(f)]
 - a) There is no time limit on the use of emergency stationary RICE in emergency situations. [§63.6640(f)(1)]

- b) The permittee may operate the emergency stationary RICE for any combination of the purposes specified in paragraphs §63.6640(f)(2)(i) through (iii) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs §63.6640(f)(3) and (4) counts as part of the 100 hours per calendar year allowed by this paragraph §63.6640(f)(2). [§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)]
 - ii) Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3. [§63.6640(f)(2)(ii)]
 - iii) Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. [§63.6640(f)(2)(iii)]
- 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)]
- i) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system. [§63.6640(f)(4)(i)]
 - ii) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met: [§63.6640(f)(4)(ii)(A) through (E)]
 1. The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
 2. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
 3. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
 4. The power is provided only to the facility itself or to support the local transmission and distribution system.
 5. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

Work Practice Standards:

- 1) For each emergency stationary CI RICE, the permittee must meet the following requirement, except during periods of startup.
 - a) Change oil and filter every 500 hours of operation or annually, whichever comes first; (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.)
 - 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.
- 2) For each emergency stationary SI RICE, the permittee must meet the following requirement, except during periods of startup.
 - a) Change oil and filter every 500 hours of operation or annually, whichever comes first; (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.)
 - b) Inspect spark plugs every 1000 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:

- 1) The permittee shall install 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. If the engine is used for the purposes specified in §63.6640(f)(2)(ii) or (iii) or §63.6640(f)(4)(ii), the permittee must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. [§63.6655(f)]
- 3) All records shall be maintained for five years and shall be made available for inspection to the Department of Natural Resources upon request. [§70.6(a)(3)(ii)]
- 4) Records may be retained electronically or in paper form.

Reporting:

The permittee shall report any deviations of this permit condition to the Air Pollution Control Program, Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than the semi-annual monitoring report and annual compliance certification, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

PERMIT CONDITION 007	
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 Unit	Description
E07, EN 11	4 cycle, dual fuel, rich burn Engine 11 - 35 MMBtu/hr dual fuel and 40 MMBtu/hr diesel
E07, EN 12	4 cycle, dual fuel, rich burn Engine 12 - 35 MMBtu/hr dual fuel and 40 MMBtu/hr diesel
E07, EN 13	4 cycle, dual fuel, rich burn Engine 13 - 52.9 MMBtu/hr dual fuel and 53.8 MMBtu/hr diesel
E07, EN 14	4 cycle, dual fuel, rich burn Engine 14 - 52.9 MMBtu/hr dual fuel and 53.8 MMBtu/hr diesel

Compliance Date:

- 1) The permittee shall comply with the applicable emission limitations, operating limitations, and other requirements by no later than May 3, 2013. [§63.6595(a)(1)]
- 2) The permittee shall meet the applicable notification requirements in §63.6645 and in 40 CFR Part 63, Subpart A. [§63.6595(c)] *Note: EPA Region VII has recently relocated. The address for EPA Region VII listed in §63.13 is their previous address. Notifications should be submitted to EPA Region VII's new address at 11201 Renner Boulevard, Lenexa, Kansas 66219.*

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

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.	
12. Non-emergency, non-black start 4SRB stationary RICE >500 HP that are not remote stationary RICE and that operate more than 24 hours per calendar year.	Install NSCR to reduce HAP emissions from the stationary RICE.	

Table 2b to 40 CFR Part 63, Subpart ZZZZ

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; 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. ¹
3. Existing CI stationary RICE >500 HP complying with the requirement to limit or reduce the concentration of CO in the stationary RICE exhaust and not using an oxidation catalyst.	Comply with any operating limitations approved by the Administrator.

¹Sources 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 and Initial Compliance Requirements:

- 1) Existing stationary RICE located at an area source of HAP emissions are subject to the requirements of §63.6612. [§63.6612]
 - a) The permittee shall conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to 40 CFR Part 63, Subpart ZZZZ that apply within 180 days after the compliance date that is specified for the stationary RICE in §63.6595 and according to the provisions in §63.7(a)(2). [§63.6612(a)]
 - b) The permittee is not required to conduct an initial performance test on a unit for which a performance test has been previously conducted, but the test must meet all of the following conditions: [§63.6612(b)]
 - i) The test must have been conducted using the same methods specified in 40 CFR Part 63, Subpart ZZZZ, and these methods must have been followed correctly. [§63.6612(b)(1)]
 - ii) The test must not be older than two years. [§63.6612(b)(2)]
 - iii) The test must be reviewed and accepted by the Administrator. [§63.6612(b)(3)]
 - iv) Either no process or equipment changes must have been made since the test was performed, or the permittee must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes. [§63.6612(b)(4)]
- 2) The permittee shall conduct subsequent performance tests as specified in Table 3 of 40 CFR Part 63, Subpart ZZZZ. [§63.6615]

- 3) The permittee shall conduct each performance test in Tables 3 and 4 of 40 CFR Part 63, Subpart ZZZZ that applies. [§63.6620(a)]
- 4) 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.
- 5) 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)]
- 6) The permittee shall use Equation 1 of §63.6620 to determine compliance with the percent reduction requirement:

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

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)]

- 7) The permittee shall normalize the CO concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent O₂, or an equivalent percent CO₂. If pollutant concentrations are to be corrected to 15 percent O₂ and CO₂ concentration is measured in lieu of O₂ concentration measurement, a CO₂ correction factor is needed. Calculate the CO₂ correction factor as follows: [§63.6620(e)(2)]

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

$$F_o = \frac{0.209F_d}{F_c} \text{ (Equation 2)}$$

Where:

F_o = Fuel factor based on the ratio of O₂ volume to the ultimate CO₂ volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is O₂, percent/100.

F_d = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm³ / J (dscf/10⁶ Btu).

F_c = Ratio of the volume of CO₂ produced to the gross calorific value of the fuel from Method 19, dsm³ / J (dscf/10⁶ Btu) [§63.6620(e)(2)(i)]

- b) Calculate the CO₂ correction factor for correcting measurement data to 15 percent O₂, as follows:

$$X_{CO_2} = \frac{5.9}{F_o} \text{ (Equation 3)}$$

Where:

X_{CO_2} = CO₂ correction factor, percent.

5.9 = 20.9 percent O₂ — 15 percent O₂, the defined O₂ correction value, percent. [§63.6620(e)(2)(ii)]

- c) Calculate the CO gas concentration adjusted to 15 percent O₂ using CO₂ as follows:

$$C_{adj} = C_d \frac{X_{CO_2}}{\%CO_2} \text{ (Equation 4)}$$

Where:

C_{adj} = Calculated concentration of CO adjusted to 15 percent O₂.

C_d = Measured concentration of CO uncorrected.

X_{CO_2} = CO₂ correction factor, percent.

%CO₂ = Measured CO₂ concentration measured, dry basis, percent. [§63.6620(e)(3)(iii)]

- 8) If the permittee is not using an oxidation catalyst, the permittee shall petition the Administrator for operating limitations to be established during the initial performance test and continuously monitored

- thereafter; or for approval of no operating limitations. The permittee shall not conduct the initial performance test until after the petition has been approved by the Administrator. [§63.6620(f)]
- 9) If the permittee petitions the Administrator for approval of operating limitations, the petition shall include the following information: [§63.6620(g)]
- a) Identification of the specific parameters the permittee proposes to use as operating limitations; [§63.6620(g)(1)]
 - b) A discussion of the relationship between these parameters and HAP emissions, identifying how HAP emissions change with changes in these parameters, and how limitations on these parameters will serve to limit HAP emissions; [§63.6620(g)(2)]
 - c) A discussion of how the permittee will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations; [§63.6620(g)(3)]
 - d) A discussion identifying the methods the permittee will use to measure and the instruments the permittee will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and [§63.6620(g)(4)]
 - e) A discussion identifying the frequency and methods for recalibrating the instruments the permittee will use for monitoring these parameters. [§63.6620(g)(5)]
- 10) If the permittee petitions the Administrator for approval of no operating limitations, the petition shall include the following information: [§63.6620(h)]
- a) Identification of the parameters associated with operation of the stationary RICE and any emission control device which could change intentionally (*e.g.*, operator adjustment, automatic controller adjustment, etc.) or unintentionally (*e.g.*, wear and tear, error, etc.) on a routine basis or over time; [§63.6620(h)(1)]
 - b) A discussion of the relationship, if any, between changes in the parameters and changes in HAP emissions; [§63.6620(h)(2)]
 - c) For the parameters which could change in such a way as to increase HAP emissions, a discussion of whether establishing limitations on the parameters would serve to limit HAP emissions; [§63.6620(h)(3)]
 - d) For the parameters which could change in such a way as to increase HAP emissions, a discussion of how you could establish upper and/or lower values for the parameters which would establish limits on the parameters in operating limitations; [§63.6620(h)(4)]
 - e) For the parameters, a discussion identifying the methods the permittee could use to measure them and the instruments the permittee could use to monitor them, as well as the relative accuracy and precision of the methods and instruments; [§63.6620(h)(5)]
 - f) For the parameters, a discussion identifying the frequency and methods for recalibrating the instruments the permittee could use to monitor them; and [§63.6620(h)(6)]
 - g) A discussion of why, from the permittee's point of view, it is infeasible or unreasonable to adopt the parameters as operating limitations. [§63.6620(h)(7)]
- 11) 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)]

Table 5 to 40 CFR Part 63, Subpart ZZZZ

For each . . .	Complying with the requirement to . . .	The permittee has demonstrated initial compliance if . . .
<p>1. Existing nonemergency stationary CI RICE >500 HP located at an area source of HAP.</p>	<p>a. Reduce CO emissions and using oxidation catalyst, and using a CPMS.</p>	<p>i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and</p>
		<p>ii. The permittee has installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and</p>
		<p>iii. The permittee has recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.</p>
<p>2. Existing non-emergency stationary CI RICE >500 HP located at an area source of HAP.</p>	<p>a. Limit the concentration of CO, using oxidation catalyst, and using a CPMS.</p>	<p>i. The average CO concentration determined from the initial performance test is less than or equal to the CO emission limitation; and</p>
		<p>ii. The permittee has installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and</p>
		<p>iii. The permittee has recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.</p>
<p>3. Existing nonemergency stationary CI RICE >500 HP located at an area source of HAP.</p>	<p>a. Reduce CO emissions and not using oxidation catalyst.</p>	<p>i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and</p>
		<p>ii. The permittee has installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and</p>
		<p>iii. The permittee has recorded the approved operating parameters (if any) during the initial performance test.</p>
<p>4. Existing non-emergency stationary CI RICE >500 HP located at an area source of HAP.</p>	<p>a. Limit the concentration of CO, and not using oxidation catalyst.</p>	<p>i. The average CO concentration determined from the initial performance test is less than or equal to the CO emission limitation; and</p>
		<p>ii. The permittee has installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and</p>
		<p>iii. The permittee has recorded the approved operating parameters (if any) during the initial performance test.</p>
<p>5. Existing nonemergency stationary CI RICE >500 HP located at an area source of HAP.</p>	<p>a. Reduce CO emissions, and using a CEMS</p>	<p>i. The permittee has installed a CEMS to continuously monitor CO and either O₂ or CO₂ at both the inlet and outlet of the oxidation catalyst according to the requirements in §63.6625(a); and</p>
		<p>ii. The permittee has conducted a performance evaluation of the CEMS using PS 3 and 4A of 40 CFR Part 60, Appendix B; and</p>
		<p>iii. The average reduction of CO calculated using §63.6620 equals or exceeds the required percent reduction. The initial test comprises the first four-hour period after successful validation of the CEMS.</p>

		Compliance is based on the average percent reduction achieved during the four-hour period.
6. Existing non-emergency stationary CI RICE >500 HP located at an area source of HAP.	a. Limit the concentration of CO, and using a CEMS.	i. The permittee has installed a CEMS to continuously monitor CO and either O ₂ or CO ₂ at the outlet of the oxidation catalyst according to the requirements in §63.6625(a); and
		ii. The permittee has conducted a performance evaluation of the CEMS using PS 3 and 4A of 40 CFR Part 60, Appendix B; and
		iii. The average concentration of CO calculated using §63.6620 is less than or equal to the CO emission limitation. The initial test comprises the first four-hour period after successful validation of the CEMS. Compliance is based on the average concentration measured during the four-hour period.
14. Existing non-emergency 4SRB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year.	a. Install NSCR	i. The permittee has conducted an initial compliance demonstration as specified in §63.6630(e) to show that the average reduction of emissions of CO is 75 percent or more, the average CO concentration is less than or equal to 270 ppmvd at 15 percent O ₂ , or the average reduction of emissions of THC is 30 percent or more;
		ii. The permittee has installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b), or the permittee has installed equipment to automatically shut down the engine if the catalyst inlet temperature exceeds 1250°F.

Table 4 to 40 CFR Part 63, Subpart ZZZZ

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). ^{a,c}	(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) ^{a,b,c} 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 must 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). ^a	(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. ^a	(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), ^{a,c} Method 320 of 40 CFR Part 63, Appendix A, or ASTM D6348-03. ^a	(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.

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

^bThe permittee may also use Method 320 of 40 CFR Part 63, Appendix A, or ASTM D6348-03.

^cASTM-D6522-00 (2005) may be used to test both CI and SI stationary RICE.

Table 3 to 40 CFR Part 63, Subpart ZZZZ

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.

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

- 1) If the permittee elects to install a CEMS as specified in Table 5 of 40 CFR Part 63, Subpart ZZZZ, the permittee shall install, operate, and maintain a CEMS to monitor CO and either O₂ or CO₂ according to the requirements in §63.6625(a)(1) through (4). If the permittee is meeting a requirement to reduce CO emissions, the CEMS shall be installed at both the inlet and outlet of the control device. If the permittee is meeting a requirement to limit the concentration of CO, the CEMS shall be installed at the outlet of the control device. [§63.6625(a)]
 - a) Each CEMS must be installed, operated, and maintained according to the applicable performance specifications of 40 CFR Part 60, Appendix B. [§63.6625(a)(1)]
 - b) The permittee shall conduct an initial performance evaluation and an annual relative accuracy test audit (RATA) of each CEMS according to the requirements in §63.8 and according to the applicable performance specifications of 40 CFR Part 60, Appendix B as well as daily and periodic data quality checks in accordance with 40 CFR Part 60, Appendix F, Procedure 1. [§63.6625(a)(2)]
 - c) As specified in §63.8(c)(4)(ii), each CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. The permittee shall have at least two data points, with each representing a different 15-minute period, to have a valid hour of data. [§63.6625(a)(3)]
 - d) The CEMS data shall be reduced as specified in §63.8(g)(2) and recorded in ppm or ppb (as appropriate for the applicable limitation) at 15 percent O₂ or the equivalent CO₂ concentration. [§63.6625(a)(4)]
- 2) If you are required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of 40 CFR Part 63, Subpart ZZZZ, the permittee shall install, operate, and maintain each CPMS according to the following requirements: [§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 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 your 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)]
- 3) 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)]
- 4) 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)]

Initial Compliance:

- 1) The permittee shall demonstrate initial compliance with each emission limitation, operating limitation, and other requirement that applies according to Table 5 of 40 CFR Part 63, Subpart ZZZZ. [§63.6630(a)]
- 2) During the initial performance test, the permittee shall establish each operating limitation in Table 2b of 40 CFR Part 63, Subpart ZZZZ that applies. [§63.6630(b)]
- 3) The permittee shall submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.6645. [§63.6630(c)]
- 4) The initial compliance demonstration required for existing non-emergency 4SRB stationary RICE with a site rating of more than 500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year shall be conducted according to the following requirements: [§63.6630(e)]

- a) The compliance demonstration shall consist of at least three test runs. [§63.6630(e)(1)]
- b) Each test run shall 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. [§63.6630(e)(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. [§63.6630(e)(3)]
- d) The permittee shall measure O₂ using one of the O₂ measurement methods specified in Table 4 of 40 CFR Part 63, Subpart ZZZZ. Measurements to determine O₂ concentration shall be made at the same time as the measurements for CO or THC concentration. [§63.6630(e)(5)]
- e) If the permittee is demonstrating compliance with the CO percent reduction requirement, the permittee shall measure CO emissions and O₂ emissions simultaneously at the inlet and outlet of the control device. [§63.6630(e)(6)]

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 ZZZZ 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 annual compliance demonstration required for existing non-emergency 4SRB stationary RICE with a site rating of more than 500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year 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 O₂ using one of the O₂ measurement methods specified in Table 4 of 40 CFR Part 63, Subpart ZZZZ. Measurements to determine O₂ 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 O₂ 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)]
- 7) 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)]

Table 6 to 40 CFR Part 63, Subpart ZZZZ

For each ...	Complying with the requirement to ...	The permittee shall demonstrate continuous compliance by ...
3. Existing non-emergency stationary CI RICE >500 HP.	a. Reduce CO emissions or limit the concentration of CO in the stationary RICE exhaust, and using a CEMS.	i. Collecting the monitoring data according to §63.6625(a), reducing the measurements to one-hour averages, calculating the percent reduction or concentration of CO emissions according to §63.6620; and
		ii. Demonstrating that the catalyst achieves the required percent reduction of CO emissions over the four-hour averaging period, or that the emission remain at or below the CO concentration limit; and
		iii. Conducting an annual RATA of the CEMS using PS 3 and 4A of 40 CFR Part 60, Appendix B, as well as daily and periodic data quality checks in accordance with 40 CFR Part 60, Appendix F, Procedure 1.
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.
11. Existing stationary CI RICE >500 HP	a. Reduce CO emissions, or limit the concentration of	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 emissions remain at or below the CO

that are not limited use stationary RICE.	CO in the stationary RICE exhaust, and not using oxidation catalyst.	concentration limit; and ii. Collecting the approved operating parameter (if any) 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 operating parameters established during the performance test.
15. Existing non-emergency 4SRB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year.	a. Install NSCR	i. Conducting annual compliance demonstrations as specified in §63.6640(c) to show that the average reduction of emissions of CO is 75 percent or more, the average CO concentration is less than or equal to 270 ppmvd at 15 percent O ₂ , or the average reduction of emissions of THC is 30 percent or more; and either ii. Collecting the catalyst inlet temperature data according to §63.6625(b), reducing these data to four-hour rolling averages; and maintaining the four-hour rolling averages within the limitation of greater than or equal to 750°F and less than or equal to 1250°F for the catalyst inlet temperature; or iii. Immediately shutting down the engine if the catalyst inlet temperature exceeds 1250°F.

General Provisions:

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

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)]
 - 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 shall 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)]
- 4) The permittee shall submit each report in Table 7 of 40 CFR Part 63, Subpart ZZZZ that applies. [§63.6650(a)]

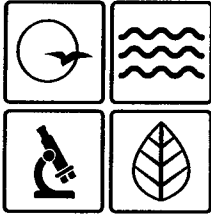
- 5) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), the permittee shall submit each report by the date in Table 7 of 40 CFR Part 63, Subpart ZZZZ and according to the following requirements: [§63.6650(b)]
 - a) For semi-annual Compliance reports, 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) For semi-annual Compliance reports, 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) For semi-annual Compliance reports, 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) For semi-annual Compliance reports, 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)]
 - 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 CEMS and 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) 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 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 CEMS or 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)]
- 16) These records shall be made available immediately for inspection to the Department of Natural Resources' personnel upon request.
- 17) The permittee shall report any deviations from the requirements of this permit condition in the semi-annual monitoring report and compliance certification required by Section V of this permit.

Table 7 to 40 CFR Part 63, Subpart ZZZZ

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 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	i. Semi-annually according to the requirements in §63.6650(b)(1) - (5)
		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	
		c. If a malfunction occurred during the reporting period, the information in §63.6650(c)(4).	
3. Existing non-emergency, non-black start 4SRB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that operate more than 24 hours per calendar year.	Compliance report	a. The results of the annual compliance demonstration, if conducted during the reporting period.	i. Semi-annually according to the requirements in §63.6650(b)(1) - (5).



Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Eric R. Greitens, Governor

Carol S. Comer, Director

AUG 30 2017

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

RE: Part 70 Operating Permit Modification - Permit Number: OP2013-040B
Project Number: 2016-04-041; Installation Number: 097-0110

Dear Mr. Bryant:

Your Part 70 Operating Permit OP2013-040 is being modified in response to your April 14, 2016 request. Your request was for the reclassification of engines #6 through #10 (E07 EN06, E07 EN07, E07 EN08, E07 EN09, E07 EN10) to emergency engines. As stated in your letter, these engines have been operated as emergency only engines since the revision of MACT ZZZZ.

Your permit is revised by removing Permit Condition 003 from the operating permit and replacing it with new permit conditions, Permit Condition 006 and Permit Condition 007. Emission Points E07 EN11, E07 EN12, E07 EN13, and E07 EN14 are now subject to Permit Condition 007, which contains the same language as the previous Permit Condition 003. Emission Points E07 EN06, E07 EN07, E07 EN08, E07 EN09, and E07 EN10 are subject to Permit Condition 006 for emergency engines.

This permit modification 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>.



Recycled paper

Mr. Chuck Bryant
Page Two

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.

Please add this letter and attached amendments to the end of Part 70 Operating Permit OP2013-040. A copy of this letter and attached amendments should be kept with the operating permit and made available to Department of Natural Resources' personnel upon request.

If you have any questions regarding this modification, please do not hesitate to contact David Buttig, at the department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM



Kendall B. Hale
Permits Section Chief

KBH:dbj

Enclosures

c: Southwest Regional Office
PAMS File: 2016-04-041