### Applicable Requirements - NSPS Subpart JJJJ

<table>
<thead>
<tr>
<th>Engine ID:</th>
<th>4SRB-13</th>
<th>Make/Model:</th>
<th>Waukesha 7042 GU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial Number:</td>
<td>99887766KXD</td>
<td>Max Rating (hp):</td>
<td>1150</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Facility Name:</th>
<th>CO Station 3</th>
<th>Combustion Type:</th>
<th>4SRB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility HAP Status:</td>
<td>Area</td>
<td>Fuel Type:</td>
<td>Natural gas</td>
</tr>
<tr>
<td>RICE Owner:</td>
<td>S2C Gathering Co</td>
<td>Use Type:</td>
<td>Non-emergency</td>
</tr>
<tr>
<td>RICE Operator:</td>
<td>Acme Operating Inc.</td>
<td>Max. Runtime:</td>
<td>Over 100 hrs per calendar year</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Control Type:</th>
<th>NSCR</th>
<th>Date Manufactured:</th>
<th>09/09/2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Make:</td>
<td>Altronic</td>
<td>Date Ordered:</td>
<td>08/08/2009</td>
</tr>
<tr>
<td>Control Model:</td>
<td>EPC-999</td>
<td>Date Orig. Constructed:</td>
<td>12/01/2009</td>
</tr>
<tr>
<td>Monitoring System:</td>
<td>None</td>
<td>Date Reconstructed:</td>
<td>N/A</td>
</tr>
<tr>
<td>Black Start?:</td>
<td>No</td>
<td>Date Modified:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Rule Name:** 40 CFR Part 60 NSPS Subpart JJJJ for Stationary SI Internal Combustion Engines  
**Fed Register Date:** 01.30.2013  
**Comply by:** Upon startup

### Emission Standards

<table>
<thead>
<tr>
<th>Emission</th>
<th>g/hp-hr</th>
<th>ppmvd (@15% O2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>2.0</td>
<td>160</td>
</tr>
<tr>
<td>NOx + HC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>4.0</td>
<td>540</td>
</tr>
<tr>
<td>VOC (excl. CH2O)</td>
<td>1.0</td>
<td>86</td>
</tr>
</tbody>
</table>
Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/hp-hr or ppmvd @ 15% O2.

VOC emissions standard: exclude formaldehyde when calculating VOC emissions.

Emission Standards Rule Reference: Table 1

Monitoring Requirements

No monitoring requirements apply to non-emergency engines.

Fuel Requirements

Fuel requirements apply only to GASOLINE engines (40 CFR 60.4235).

For engines fueled with gasoline, gasoline that meets the per gallon sulfur limit in 40 CFR 80.195 must be used.
Applicable Requirements - NSPS Subpart JJJJ

| Engine ID: | 4SRB-13 |
| Serial Number: | 99887766KXD |
| Make/Model: | Waukesha 7042 GU |
| Max Rating (hp): | 1150 |

Compliance Requirements / O&M

1. Operate and maintain certified engine and control device according to manufacturer's emission-related written instructions and keep records; OR

2. Keep a maintenance plan and records of conducted maintenance;

3. Maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.

Performance testing requirements (>500 hp):

Conduct an initial performance test [within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup (60.8)], and

Conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

Performance testing requirements shown assume that the engine is not certified. An owner/operator may optionally choose to purchase an engine certified under NSPS Subpart JJJJ. Performance testing is NOT required for certified engines as long as the engine is operated and maintained according to the manufacturer emission-related written instructions.
Applicable Requirements - NSPS Subpart JJJJ

| Engine ID: | 4SRB-13 |
| Serial Number: | 99887766KXD |
| Make/Model: | Waukesha 7042 GU |
| Max Rating (hp): | 1150 |

Testing Requirements

Conduct each performance test within 10% of 100% peak (or highest achievable) load and according to the requirements in 60.8 and under specific conditions that are specified by Table 2 to this NSPS subpart.

You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in 60.8( c). If your stationary SI IC engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine.

You must conduct three separate test runs for each performance test required in this section, as specified in 60.8(f). Each test run must be conducted within 10% of 100% peak (or the highest achievable) load and last at least 1 hour.

Refer to 60.4244 for method to determine compliance with mass per unit output emission limitations.

FOOTNOTES (referenced by NOx/CO/VOC testing requirements below):

(a) ASTM D6522-00 is incorporated by reference; see 40 CFR 60.17. Also, you may petition the Administrator for approval to use alternative methods for portable analyzer.

(b) You may use ASME PTC 19.10-1981, Flue and Exhaust Gas Analyses, for measuring the O2 content of the exhaust gas as an alternative to EPA Method 3B.

(c) You may use EPA Method 18 of 40 CFR part 60, Appendix A, provided that you conduct an adequate presurvey test prior to the emissions test, such as the one described in OTM 11 on EPA's website (http://www.epa.gov/ttn/emc/prelim/otm11.pdf).


Limit the concentration of NOx in the stationary SI IC engine exhaust: use Method 1 or 1A of 40 CFR 60, Appdx A or ASTM Method D6522-00 (2005) (a). Select the sampling port location and the number of transverse points using one of these methods. If using a control device, the sampling site must be located at the outlet of the control device.

Determine the O2 concentration of the IC engine exhaust at the sampling port location: use Method 3, 3A, or 3B (b) of 40 CFR 60 Appdx A or ASTM Method D6522-00 (2005) (a). Measurement to determine O2 concentration must be made at the same time as the measurements for NOx concentration.

If necessary, determine the exhaust flow rate of the IC engine exhaust: use Method 2 or Method 19 of 40 CFR 60.

If necessary, measure moisture content of the IC engine exhaust at the sampling port location: use Method 4 of 40 CFR 60 Appdx A, Method 320 of 40 CFR 63 Appdx A, or ASTM D6348-03 (60.17). Measurement to determine moisture must be made at the same time as the measurement for NOx concentration.

Measure NOx at the exhaust of the IC engine: use Method 7E of 40 CFR 60 Appdx A, ASTM Method D6522-00 (2005) (a), Method 320 of 40 CFR 63 Appdx A, or ASTM D6348-03 (60.17). Results of this test consist of the
Engine ID: 4SRB-13  Make/Model: Waukesha 7042 GU
Serial Number: 99887766KXD  Max Rating (hp): 1150

average of the three 1-hour or longer runs.

Limit the concentration of CO in the stationary SI IC engine exhaust: use Method 1 or 1A of 40 CFR 60, Appdx A or ASTM Method D6522-00(2005) a. Select the sampling port location and the number of transverse points using one of these methods. If using a control device, the sampling site must be located at the outlet of the control device.

Determine the O2 concentration of the IC engine exhaust at the sampling port location: use Method 3, 3A, or 3B (b) of 40 CFR 60 Appdx A or ASTM Method D6522-00 (2005) (a). Measurement to determine O2 concentration must be made at the same time as the measurements for CO concentration.

If necessary, determine the exhaust flow rate of the IC engine exhaust: use Method 2 or Method 19 of 40 CFR 60.

If necessary, measure moisture content of the IC engine exhaust at the sampling port location: use Method 4 of 40 CFR 60 Appdx A, Method 320 of 40 CFR 63 Appdx A, or ASTM D6348-03 (60.17). Measurements to determine moisture must be made at the same time as the measurement for CO concentration.

Measure CO at the exhaust of the IC engine: use Method 10 of 40 CFR 60 Appdx A, ASTM Method D6522-00 (2005) (a), Method 320 of 40 CFR 63 Appdx A, or ASTM D6348-03 (60.17). Results of this test consist of the average of the three 1-hour or longer runs.

Limit the concentration of VOC in the stationary SI IC engine exhaust: use Method 1 or 1A of 40 CFR 60, Appdx A. Select the sampling port location and the number of transverse points using one of these methods. If using a control device, the sampling site must be located at the outlet of the control device.

Determine the O2 concentration of the IC engine exhaust at the sampling port location: use Method 3, 3A, or 3B (b) of 40 CFR 60 Appdx A or ASTM Method D6522-00 (2005) (a). Measurement to determine O2 concentration must be made at the same time as the measurements for VOC concentration.

If necessary, determine the exhaust flow rate of the IC engine exhaust: use Method 2 or Method 19 of 40 CFR 60.

If necessary, measure moisture content of the IC engine exhaust at the sampling port location: use Method 4 of 40 CFR 60 Appdx A, Method 320 of 40 CFR 63 Appdx A, or ASTM D6348-03 (60.17). Measurements to determine moisture must be made at the same time as the measurement for VOC concentration.

Measure VOC at the exhaust of the IC engine: use Methods 25A and 18 of 40 CFR 60 Appdx A, Method 25A with the use of a methane cutter as described in 40 CFR 1065.265, Method 18 of 40 CFR 60 Appdx A (c, d), Method 320 of 40 CFR 63 Appdx A, or ASTM D6348-03 (60.17). Results of this test consist of the average of the three 1-hour or longer runs.
Applicable Requirements - NSPS Subpart JJJJ

Engine ID: 4SRB-13
Serial Number: 99887766KXD
Make/Model: Waukesha 7042 GU
Max Rating (hp): 1150

Recordkeeping / Notifications / Reporting

60.4245

RECORDKEEPING:
(a) Owners/operators must keep records of all NSPS JJJJ notifications submitted, all supporting documentation for those notifications, maintenance conducted, and for non-certified engines, documentation that the engine meets the emission standards.

(b) For all stationary SI emergency ICE greater than or equal to 500 HP manufactured on or after July 1, 2010, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For all stationary SI emergency ICE greater than or equal to 130 HP and less than 500 HP manufactured on or after July 1, 2011 that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For all stationary SI emergency ICE greater than 25 HP and less than 130 HP manufactured on or after July 1, 2008, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator 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.

NOTIFICATIONS:
(c ) Owners and operators of stationary SI ICE greater than or equal to 500 HP that have not been certified by an engine manufacturer to meet the emission standards in 60.4231 must submit an initial notification as required in 60.7(a)(1). The notification must include the information in paragraphs (c ) (1) through (5) of this section.

Note: The only other notification requirement that applies is the following from NSPS Subpart A that addresses testing:
60.8 (d) The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement.

REPORTS:
(d) Owners and operators of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in 60.4244 within 60 days after the test has been completed.

Refer to 40 CFR 60.7, 60.8, and 60.19 NSPS Subpart A General Provisions for other requirements pertaining to recordkeeping, notifications, and reporting.

08.10.2013
CalcRpt1 (7012)
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### Other Requirements

No other requirements apply.

**IMPORTANT NOTE:**

NSPS requirements to be met by the engine manufacturer (as opposed to the owner/operator) are excluded from the scope of this evaluation and the conclusions presented herein.

08.10.2013
CalcRpt1 (7012)