SEP 28 2016

Jon Iriart
WM Bolthouse Farms, Inc.
7200 E. Brundage Lane
Bakersfield, CA 93307-3016

Re: Notice of Preliminary Decision - Authority to Construct
Facility Number: S-416
Project Number: S-1163021

Dear Mr. Iriart:

Enclosed for your review and comment is the District’s analysis of WM Bolthouse Farms, Inc.’s application for an Authority to Construct for a diesel-fired standby engine, at 7200 E. Brundage Lane, Bakersfield.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. After addressing all comments made during the 30-day public notice period, the District intends to issue the Authority to Construct. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. David Torii of Permit Services at (661) 392-5620.

Sincerely,

[Signature]

Arnaud Marjollet
Director of Permit Services

AM:dbt

Enclosures

cc: Tung Le, CARB (w/ enclosure) via email
San Joaquin Valley Air Pollution Control District
Authority to Construct
Application Review
Diesel-Fired Emergency Firewater Pump IC Engine

Facility Name: WM Bolthouse Farms, Inc.
Mailing Address: 7200 E. Brundage Lane
                 Bakersfield, CA 93307-3016
Contact Person: Jon Iriart
Telephone: 661-366-7209 x5090
Application #: S-416-39-0
Project #: 1163021
Complete: 8/30/16

Date: 9/7/16
Engineer: David Torii
Lead Engineer: Dan Klevann

I. Proposal

WM Bolthouse Farms, Inc. is proposing to install a 896 bhp (intermittent) diesel-fired emergency internal combustion (IC) engine powering a firewater pump.

II. Applicable Rules

Rule 2201 New and Modified Stationary Source Review Rule (2/18/16)
Rule 2520 Federally Mandated Operating Permits (6/21/01)
Rule 4001 New Source Performance Standards (4/14/99)
Rule 4101 Visible Emissions (2/17/05)
Rule 4102 Nuisance (12/17/92)
Rule 4201 Particulate Matter Concentration (12/17/92)
Rule 4701 Stationary Internal Combustion Engines – Phase 1 (8/21/03)
Rule 4702 Stationary Internal Combustion Engines – Phase 2 (1/18/07)
Rule 4801 Sulfur Compounds (12/17/92)
CH&SC 41700 Health Risk Assessment
CH&SC 42301.6 School Notice
Title 13 California Code of Regulations (CCR), Section 2423 – Exhaust Emission Standards and Test Procedures, Off-Road Compression-Ignition Engines and Equipment
Title 17 CCR, Section 93115 - Airborne Toxic Control Measure (ATCM) for Stationary Compression-Ignition (CI) Engines
Public Resources Code 21000-21177: California Environmental Quality Act (CEQA)
California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000-15387: CEQA Guidelines
III. Project Location

The project is located at 7200 E. Brundage Lane, Bakersfield. The District has verified that the equipment is not located within 1,000 feet of the outer boundary of a K-12 school. Therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project.

IV. Process Description

The emergency engine powers a firewater pump. Other than emergency operation, the engine may be operated up to 100 hours per year for maintenance and testing purposes.

V. Equipment Listing

S-416-39-0: 896 BHP (INTERMITTENT) MTU MODEL 12V600G8OS TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

VI. Emission Control Technology Evaluation

The engine is equipped with:

- Positive Crankcase Ventilation (PCV) or 90% efficient control device
- This engine is required to be, and is UL certified
- Very Low (0.0015%) sulfur diesel

The emission control devices/technologies and their effect on diesel engine emissions detailed below are from Non-catalytic NO\textsubscript{x} Control of Stationary Diesel Engines, by Don Koeberlein, CARB.

The PCV system reduces crankcase VOC and PM\textsubscript{10} emissions by at least 90% over an uncontrolled crankcase vent.

The use of very low-sulfur diesel fuel (0.0015% by weight sulfur maximum) reduces SO\textsubscript{x} emissions by over 99% from standard diesel fuel.

VII. General Calculations

A. Assumptions

<table>
<thead>
<tr>
<th>Assumption</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency operating schedule:</td>
<td>24 hours/day</td>
</tr>
<tr>
<td>Non-emergency operating schedule:</td>
<td>up to 100 hours/year</td>
</tr>
<tr>
<td>Density of diesel fuel:</td>
<td>7.1 lb/gal</td>
</tr>
<tr>
<td>EPA F-factor (adjusted to 60 °F):</td>
<td>9,051 dscf/MMBtu</td>
</tr>
<tr>
<td>Fuel heating value:</td>
<td>137,000 Btu/gal</td>
</tr>
<tr>
<td>BHP to Btu/hr conversion:</td>
<td>2,542.5 Btu/bhp-hr</td>
</tr>
<tr>
<td>Thermal efficiency of engine:</td>
<td>commonly ≈ 35%</td>
</tr>
<tr>
<td>PM\textsubscript{10} fraction of diesel exhaust:</td>
<td>0.96 (CARB, 1988)</td>
</tr>
</tbody>
</table>
B. Emission Factors

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor (g/bhp-hr)</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>4.38</td>
<td>Engine Manufacturer</td>
</tr>
<tr>
<td>SOx</td>
<td>0.0051</td>
<td>Mass Balance Equation Below</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>0.14</td>
<td>Engine Manufacturer</td>
</tr>
<tr>
<td>CO</td>
<td>0.92</td>
<td>Engine Manufacturer</td>
</tr>
<tr>
<td>VOC</td>
<td>0.22</td>
<td>Engine Manufacturer</td>
</tr>
</tbody>
</table>

\[
\text{lb - fuel} \times \frac{7 \text{ lb} - \text{SO}_2}{\text{gallon}} \times \frac{1 \text{ gat}}{1 \text{ lb} - \text{S}} \times \frac{1 \text{ bhp input}}{2,542.5 \text{ Btu}} \times \frac{2,542.5 \text{ Btu}}{0.35 \text{ bhp out}} \times \frac{453.6 \text{ g}}{\text{bhp - hr}} \times \frac{\text{g - SO}_2}{\text{lb - S}} = 0.0051
\]

C. Calculations

1. Pre-Project Emissions (PE1)

Since this is a new emissions unit, PE1 = 0.

2. Post Project PE (PE2)

The daily and annual PE are calculated as follows:

### Daily Post Project Emissions

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emissions Factor (g/bhp-hr)</th>
<th>Rating (bhp)</th>
<th>Daily Hours of Operation (hrs/day)</th>
<th>Conversion (g/lb)</th>
<th>PE2 Total (lb/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>4.38</td>
<td>896</td>
<td>24</td>
<td>453.6</td>
<td>207.6</td>
</tr>
<tr>
<td>SOx</td>
<td>0.0051</td>
<td>896</td>
<td>24</td>
<td>453.6</td>
<td>0.2</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>0.14</td>
<td>896</td>
<td>24</td>
<td>453.6</td>
<td>6.6</td>
</tr>
<tr>
<td>CO</td>
<td>0.92</td>
<td>896</td>
<td>24</td>
<td>453.6</td>
<td>43.6</td>
</tr>
<tr>
<td>VOC</td>
<td>0.22</td>
<td>896</td>
<td>24</td>
<td>453.6</td>
<td>10.4</td>
</tr>
</tbody>
</table>

### Annual Post Project Emissions

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emissions Factor (g/bhp-hr)</th>
<th>Rating (bhp)</th>
<th>Annual Hours of Operation (hrs/yr)</th>
<th>Conversion (g/lb)</th>
<th>PE2 Total (lb/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>4.38</td>
<td>896</td>
<td>100</td>
<td>453.6</td>
<td>665</td>
</tr>
<tr>
<td>SOx</td>
<td>0.0051</td>
<td>896</td>
<td>100</td>
<td>453.6</td>
<td>1</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>0.14</td>
<td>896</td>
<td>100</td>
<td>453.6</td>
<td>28</td>
</tr>
<tr>
<td>CO</td>
<td>0.92</td>
<td>896</td>
<td>100</td>
<td>453.6</td>
<td>182</td>
</tr>
<tr>
<td>VOC</td>
<td>0.22</td>
<td>896</td>
<td>100</td>
<td>453.6</td>
<td>43</td>
</tr>
</tbody>
</table>
3. Pre-Project Stationary Source Potential to Emit (SSPE1)

Pursuant to Section 4.9 of District Rule 2201, the Pre-Project Stationary Source Potential to Emit (SSPE1) is the Potential to Emit (PE) from all units with valid ATCs or PTOs at the Stationary Source and the quantity of Emission Reduction Credits (ERCs) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.

<table>
<thead>
<tr>
<th>Permit Unit</th>
<th>NOx</th>
<th>SOx</th>
<th>PM$_{10}$</th>
<th>CO</th>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-416-4-6</td>
<td>0</td>
<td>0</td>
<td>2,113</td>
<td>0</td>
<td>10,000</td>
</tr>
<tr>
<td>S-416-6-5</td>
<td>1,897</td>
<td>612</td>
<td>1,631</td>
<td>15,902</td>
<td>600</td>
</tr>
<tr>
<td>S-416-7-5</td>
<td>1,897</td>
<td>612</td>
<td>1,631</td>
<td>15,902</td>
<td>600</td>
</tr>
<tr>
<td>S-416-10-1</td>
<td>0</td>
<td>0</td>
<td>1,008</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>S-416-12-2</td>
<td>584</td>
<td>146</td>
<td>10,147</td>
<td>1,935</td>
<td>292</td>
</tr>
<tr>
<td>S-416-14-0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>S-416-16-3</td>
<td>4,677</td>
<td>1,508</td>
<td>3,016</td>
<td>19,804</td>
<td>635</td>
</tr>
<tr>
<td>S-416-17-0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>259</td>
</tr>
<tr>
<td>S-416-18-0</td>
<td>75</td>
<td>0</td>
<td>1</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>S-416-19-0</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>33</td>
<td>17</td>
</tr>
<tr>
<td>S-416-20-2</td>
<td>4,399</td>
<td>1,567</td>
<td>3,134</td>
<td>18,146</td>
<td>1,391</td>
</tr>
<tr>
<td>S-416-34-0</td>
<td>188</td>
<td>0</td>
<td>3</td>
<td>28</td>
<td>10</td>
</tr>
<tr>
<td>S-416-37-0</td>
<td>3,313</td>
<td>1,548</td>
<td>4,128</td>
<td>17,923</td>
<td>2,987</td>
</tr>
<tr>
<td>SSPE1</td>
<td>17,033</td>
<td>5,993</td>
<td>26,813</td>
<td>89,681</td>
<td>16,794</td>
</tr>
</tbody>
</table>

4. Post Project Stationary Source Potential to Emit (SSPE2)

Pursuant to Section 4.10 of District Rule 2201, the Post Project Stationary Source Potential to Emit (SSPE2) is the Potential to Emit (PE) from all units with valid ATCs or PTOs, except for emissions units proposed to be shut down as part of the Stationary Project, at the Stationary Source and the quantity of Emission Reduction Credits (ERCs) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.
SSPE2 (lb/year)

<table>
<thead>
<tr>
<th>Permit Unit</th>
<th>NO\textsubscript{X}</th>
<th>SO\textsubscript{X}</th>
<th>PM\textsubscript{10}</th>
<th>CO</th>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-416-4-6</td>
<td>0</td>
<td>0</td>
<td>2,113</td>
<td>0</td>
<td>10,000</td>
</tr>
<tr>
<td>S-416-6-5</td>
<td>1,897</td>
<td>612</td>
<td>1,631</td>
<td>15,902</td>
<td>600</td>
</tr>
<tr>
<td>S-416-7-5</td>
<td>1,897</td>
<td>612</td>
<td>1,631</td>
<td>15,902</td>
<td>600</td>
</tr>
<tr>
<td>S-416-10-1</td>
<td>0</td>
<td>0</td>
<td>1,008</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>S-416-12-2</td>
<td>584</td>
<td>146</td>
<td>10,147</td>
<td>1,935</td>
<td>292</td>
</tr>
<tr>
<td>S-416-14-0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>S-416-16-3</td>
<td>4,677</td>
<td>1,508</td>
<td>3,016</td>
<td>19,804</td>
<td>635</td>
</tr>
<tr>
<td>S-416-17-0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>259</td>
</tr>
<tr>
<td>S-416-18-0</td>
<td>75</td>
<td>0</td>
<td>1</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>S-416-19-0</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>33</td>
<td>17</td>
</tr>
<tr>
<td>S-416-20-2</td>
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<td>1,567</td>
<td>3,134</td>
<td>18,146</td>
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<td>0</td>
<td>3</td>
<td>28</td>
<td>10</td>
</tr>
<tr>
<td>S-416-37-0</td>
<td>3,313</td>
<td>1,548</td>
<td>4,128</td>
<td>17,923</td>
<td>2,987</td>
</tr>
<tr>
<td>S-416-39-0</td>
<td>865</td>
<td>1</td>
<td>28</td>
<td>182</td>
<td>43</td>
</tr>
<tr>
<td>SSPE2</td>
<td>17,898</td>
<td>5,994</td>
<td>26,841</td>
<td>89,863</td>
<td>16,837</td>
</tr>
</tbody>
</table>

5. Major Source Determination

Pursuant to Section 3.24 of District Rule 2201, a Major Source is a stationary source with post project emissions or a Post Project Stationary Source Potential to Emit (SSPE2), equal to or exceeding one or more of the following threshold values. However, Section 3.24.2 states, "for the purposes of determining major source status, the SSPE2 shall not include the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site."

This facility does not contain ERCs which have been banked at the source; therefore, no adjustment to SSPE2 is necessary.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>SSPE1 (lb/yr)</th>
<th>SSPE2 (lb/yr)</th>
<th>Major Source Threshold (lb/yr)</th>
<th>Existing Major Source?</th>
<th>Becoming a Major Source?</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO\textsubscript{X}</td>
<td>17,033</td>
<td>17,898</td>
<td>20,000</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>SO\textsubscript{X}</td>
<td>5,993</td>
<td>5,994</td>
<td>140,000</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>PM\textsubscript{10}</td>
<td>26,813</td>
<td>26,841</td>
<td>140,000</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>CO</td>
<td>89,681</td>
<td>89,863</td>
<td>200,000</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>VOC</td>
<td>16,794</td>
<td>16,837</td>
<td>20,000</td>
<td>N</td>
<td>N</td>
</tr>
</tbody>
</table>

As seen in the table above, the facility is not an existing Major Source and also is not becoming a Major Source as a result of this project.
6. Baseline Emissions (BE)

BE = Pre-project Potential to Emit for:
   • Any unit located at a non-Major Source,
   • Any Highly-Utilized Emissions Unit, located at a Major Source,
   • Any Fully-Offset Emissions Unit, located at a Major Source, or
   • Any Clean Emissions Unit, located at a Major Source.

otherwise,

BE = Historic Actual Emissions (HAE), calculated pursuant to Section 3.23

Since this is a new emissions unit, BE = PE1 = 0 for all criteria pollutants.

7. SB 288 Major Modification

SB 288 Major Modification is defined in 40 CFR Part 51.165 as "any physical change in or change in the method of operation of a major stationary source that would result in a significant net emissions increase of any pollutant subject to regulation under the Act."

As discussed in Section VII.C.5 above, this facility is not a major source for any of the pollutants addressed in this project; therefore, the project does not constitute a SB 288 Major Modification.

8. Federal Major Modification

District Rule 2201, Section 3.18 states that Federal Major Modifications are the same as "Major Modification" as defined in 40 CFR 51.165 and part D of Title I of the CAA.

Since this facility is not a Major Source for any pollutants, this project does not constitute a Federal Major Modification. Additionally, since the facility is not a major source for PM_{10} (140,000 lb/year), it is not a major source for PM2.5 (200,000 lb/year).

VIII. Compliance

Rule 2201 New and Modified Stationary Source Review Rule

A. Best Available Control Technology (BACT)

1. BACT Applicability

BACT requirements are triggered on a pollutant-by-pollutant basis and on an emissions unit-by-emissions unit basis for the following*:
a) Any new emissions unit with a potential to emit exceeding two pounds per day,
b) The relocation from one Stationary Source to another of an existing emissions unit with a potential to emit exceeding two pounds per day,
c) Modifications to an existing emissions unit with a valid Permit to Operate resulting in an AIPE exceeding two pounds per day, and/or
d) Any new or modified emissions unit, in a stationary source project, which results in a Major Modification.

*Except for CO emissions from a new or modified emissions unit at a Stationary Source with an SSPE2 of less than 200,000 pounds per year of CO.

a. New emissions units – PE > 2 lb/day

Since this engine is a new emissions unit, the daily emissions are compared to the BACT thresholds in the following table:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Daily Emissions for unit -X-X (lb/day)</th>
<th>BACT Threshold (lb/day)</th>
<th>SSPE2 (lb/yr)</th>
<th>BACT Triggered?</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO\textsubscript{X}</td>
<td>207.6</td>
<td>&gt; 2.0</td>
<td>n/a</td>
<td>Y</td>
</tr>
<tr>
<td>SO\textsubscript{X}</td>
<td>0.2</td>
<td>&gt; 2.0</td>
<td>n/a</td>
<td>N</td>
</tr>
<tr>
<td>PM\textsubscript{10}</td>
<td>6.6</td>
<td>&gt; 2.0</td>
<td>n/a</td>
<td>Y</td>
</tr>
<tr>
<td>CO</td>
<td>43.6</td>
<td>&gt; 2.0 and SSPE2 ≥ 200,000 lb/yr</td>
<td>89,883</td>
<td>N</td>
</tr>
<tr>
<td>VOC</td>
<td>10.4</td>
<td>&gt; 2.0</td>
<td>n/a</td>
<td>Y</td>
</tr>
</tbody>
</table>

Thus BACT will be triggered for NO\textsubscript{X}, PM\textsubscript{10}, and VOC emissions. BACT is not triggered for CO since the SSPE2 for CO is not greater than 200,000 lb/year, as demonstrated in Section VII.C.4 above.

b. Relocation of emissions units – PE > 2 lb/day

As discussed previously in Section I, this engine is not being relocated from one stationary source to another as a result of this project. Therefore, BACT is not triggered for the relocation of emissions units with a PE > 2 lb/day.
c. Modification of emissions units – Adjusted Increase in Permitted Emissions (AIPE) > 2 lb/day

As discussed previously in Section I, this engine is not being modified as a result of this project. Therefore, BACT is not triggered for the modification of emissions units with an AIPE > 2 lb/day.

d. Major Modification

As discussed previously in Section VII.C.7, this project does not constitute a Major Modification. Therefore, BACT is not triggered for a Major Modification.

2. BACT Guideline

BACT Guideline 3.1.4, which appears in Appendix A of this report, covers diesel-fired emergency IC engines powering a firewater pump.

3. Top Down BACT Analysis

Per District Policy APR 1305, Section IX, “A top-down BACT analysis shall be performed as a part of the Application Review for each application subject to the BACT requirements pursuant to the District’s NSR Rule for source categories or classes covered in the BACT Clearinghouse, relevant information under each of the following steps may be simply cited from the Clearinghouse without further analysis.”

Pursuant to the attached Top-Down BACT Analysis, which appears in Appendix A of this report, BACT is satisfied with:

- NO\textsubscript{x}: Certified NO\textsubscript{x} emissions of 6.9 g/bhp-hr or less
- VOC: Positive crankcase ventilation (or 90% efficient control device)
- PM\textsubscript{10}: PM\textsubscript{10} emissions of 0.1 g/bhp-hr or less because T-BACT is triggered
  (note: pursuant to APR 1105 0.14 rounds to 0.1)

Therefore, the following conditions will be listed on the ATC to ensure compliance:

- {edited 3485} Emissions from this IC engine shall not exceed any of the following limits: 4.38 g-NOx/bhp-hr, 0.92 g-CO/bhp-hr, or 0.22 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115]
- {3395} Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
- {edited 3486} Emissions from this IC engine shall not exceed 0.14 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test
procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115]

B. Offsets

Since emergency IC engines are exempt from the offset requirements of Rule 2201, per Section 4.6.2, offsets are not required for this engine, and no offset calculations are required.

C. Public Notification

1. Applicability

Public noticing is required for:
   a. New Major Sources, which is a new facility that is also a Major Source,
   b. Major Modifications,
   c. Any new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any one pollutant,
   d. Any project which results in the offset thresholds being surpassed, and/or
   e. Any project with an SSIP of greater than 20,000 lb/year for any pollutant.

   a. New Major Source

   A New Major Source is a new facility, which is also a major source. Since this is not a new facility, public noticing is not required for this project for New Major Source purposes.

   b. Major Modification

   As demonstrated previously in Section VII.C.7, this project does not constitute a Major Modification; therefore, public noticing for Major Modification purposes is not required.

   c. PE > 100 lb/day

   The Daily PE for this new emissions unit is compared to the daily PE Public Notice Thresholds in the following table:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Daily PE (lb/day)</th>
<th>Public Notice Threshold (lb/day)</th>
<th>Public Notice Triggered?</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOₓ</td>
<td>207.6</td>
<td>100</td>
<td>Y</td>
</tr>
<tr>
<td>SOₓ</td>
<td>0.2</td>
<td>100</td>
<td>N</td>
</tr>
<tr>
<td>PM₁₀</td>
<td>6.6</td>
<td>100</td>
<td>N</td>
</tr>
<tr>
<td>CO</td>
<td>43.6</td>
<td>100</td>
<td>N</td>
</tr>
<tr>
<td>VOC</td>
<td>10.4</td>
<td>100</td>
<td>N</td>
</tr>
</tbody>
</table>
As detailed in the preceding table, the NO\textsubscript{X} 100 lb/day threshold was surpassed with this project. Therefore, public noticing is not required for daily emissions greater than 100 lb/day for a new emissions unit.

d. Offset Threshold

The following table compares the SSPE1 with the SSPE2 to the offset thresholds in order to determine if any offset thresholds have been surpassed with this project.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>SSPE1 (lb/yr)</th>
<th>SSPE2 (lb/yr)</th>
<th>Offset Threshold (lb/yr)</th>
<th>Public Notice Required?</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO\textsubscript{X}</td>
<td>17,033</td>
<td>17,898</td>
<td>20,000</td>
<td>N</td>
</tr>
<tr>
<td>SO\textsubscript{X}</td>
<td>5,993</td>
<td>5,994</td>
<td>54,750</td>
<td>N</td>
</tr>
<tr>
<td>PM\textsubscript{10}</td>
<td>5,993</td>
<td>26,841</td>
<td>29,200</td>
<td>N</td>
</tr>
<tr>
<td>CO</td>
<td>89,681</td>
<td>89,863</td>
<td>200,000</td>
<td>N</td>
</tr>
<tr>
<td>VOC</td>
<td>16,794</td>
<td>16,837</td>
<td>20,000</td>
<td>N</td>
</tr>
</tbody>
</table>

As detailed in the preceding table, there were no offset thresholds surpassed with this project. Therefore, public noticing is not required for this project for surpassing the SSPE2 offset thresholds.

e. SSIPE > 20,000 lb/year

Public notification is required for any permitting action that results in a Stationary Source Increase in Permitted Emissions (SSIPE) of more than 20,000 lb/year of any affected pollutant. According to District policy, the SSIPE is calculated as the Post Project Stationary Source Potential to Emit (SSPE2) minus the Pre-Project Stationary Source Potential to Emit (SSPE1), i.e. SSIPE = SSPE2 – SSPE1. The values for SSPE2 and SSPE1 are calculated according to Rule 2201, Sections 4.9 and 4.10, respectively. The SSIPE is compared to the SSIPE Public Notice thresholds in the following table:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>SSPE1 (lb/yr)</th>
<th>SSPE2 (lb/yr)</th>
<th>SSIPE (lb/yr)</th>
<th>SSIPE Threshold (lb/yr)</th>
<th>Public Notice Required?</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO\textsubscript{X}</td>
<td>17,033</td>
<td>17,898</td>
<td>865</td>
<td>20,000</td>
<td>N</td>
</tr>
<tr>
<td>SO\textsubscript{X}</td>
<td>5,993</td>
<td>5,994</td>
<td>1</td>
<td>20,000</td>
<td>N</td>
</tr>
<tr>
<td>PM\textsubscript{10}</td>
<td>5,993</td>
<td>26,841</td>
<td>28</td>
<td>20,000</td>
<td>N</td>
</tr>
<tr>
<td>CO</td>
<td>89,681</td>
<td>89,863</td>
<td>182</td>
<td>20,000</td>
<td>N</td>
</tr>
<tr>
<td>VOC</td>
<td>16,794</td>
<td>16,837</td>
<td>43</td>
<td>20,000</td>
<td>N</td>
</tr>
</tbody>
</table>
As detailed in the preceding table, there were no SSIE thresholds surpassed with this project. Therefore, public noticing is not required for exceeding the SSIE thresholds.

2. Public Notice Action

As discussed above, public noticing is required for this project for surpassing the PE > 100 lb/day for a new emissions unit threshold for NOx emissions. Therefore, public notice documents will be submitted to the California Air Resources Board (CARB) and a public notice will be published in a local newspaper of general circulation prior to the issuance of the ATC for this equipment.

D. Daily Emissions Limits

Daily Emissions Limitations (DELs) and other enforceable conditions are required by Section 3.15 to restrict a unit’s maximum daily emissions, to a level at or below the emissions associated with the maximum design capacity. Per Sections 3.15.1 and 3.15.2, the DEL must be contained in the latest ATC and contained in or enforced by the latest PTO and enforceable, in a practicable manner, on a daily basis. DELs are also required to enforce the applicability of BACT. For this emergency IC engine, the DELs are stated in the form of emission factors, the maximum engine horsepower rating, and the maximum operational time of 24 hours per day. Therefore, the following conditions (previously proposed in this engineering evaluation) will be listed on the ATC to ensure compliance:

- {edited 3485} Emissions from this IC engine shall not exceed any of the following limits: 4.38 g-NOx/bhp-hr, 0.92 g-CO/bhp-hr, or 0.22 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115]

- {edited 3486} Emissions from this IC engine shall not exceed 0.14 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115]

In addition, the DEL for SOx is established by the sulfur content of the fuel being combusted in the engine. Therefore, the following condition will be listed on the ATC to ensure compliance:

- {3395} Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
E. Compliance Assurance

1. Source Testing

Pursuant to District Policy APR 1705, source testing is not required for emergency IC engines to demonstrate compliance with Rule 2201.

2. Monitoring

No monitoring is required to demonstrate compliance with Rule 2201.

3. Recordkeeping

Recordkeeping is required to demonstrate compliance with the offset, public notification, and daily emission limit requirements of Rule 2201. As required by District Rule 4702, *Stationary Internal Combustion Engines - Phase 2*, this IC engine is subject to recordkeeping requirements. Recordkeeping requirements, in accordance with District Rule 4702, will be discussed in Section VIII, *District Rule 4702*, of this evaluation.

4. Reporting

No reporting is required to ensure compliance with Rule 2201.

F. Ambient Air Quality Analysis (AAQA)

An AAQA shall be conducted for the purpose of determining whether a new or modified Stationary Source will cause or make worse a violation of an air quality standard. The District’s Technical Services Division conducted the required analysis. Refer to Appendix B of this document for the AAQA summary sheet.

The proposed location is in an attainment area for NO\textsubscript{X}, CO, and SO\textsubscript{X}. As shown by the AAQA summary sheet the proposed equipment will not cause a violation of an air quality standard for NO\textsubscript{X}, CO, or SO\textsubscript{X}.

The proposed location is in a non-attainment area for the state’s PM\textsubscript{10} as well as federal and state PM\textsubscript{2.5} thresholds. As shown by the AAQA summary sheet the proposed equipment will not cause a violation of an air quality standard for PM\textsubscript{10} and PM\textsubscript{2.5}.

Rule 2520  Federally Mandated Operating Permits

Since this facility’s potential to emit does not exceed any major source thresholds of Rule 2201, this facility is not a major source, and Rule 2520 does not apply.
Rule 4001 New Source Performance Standards (NSPS)

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

§60.4200 - Applicability

This subpart is applicable to owners and operators of stationary compression ignited internal combustion engines that commence construction after July 11, 2005, where the engines are:

1) Manufactured after April 1, 2006, if not a fire pump engine.
2) Manufactured as a National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.

Since the proposed engine will be installed after July 11, 2005 and will be manufactured after April 1, 2006, this subpart applies.

All of the applicable standards of this subpart are less restrictive than current District requirements. This engine will comply with all current District standards so no further discussion is required.

Rule 4101 Visible Emissions

Rule 4101 states that no air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. Therefore, the following condition will be listed on the ATC to ensure compliance:

- {15} No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]

Rule 4102 Nuisance

Rule 4102 states that no air contaminant shall be released into the atmosphere which causes a public nuisance. Public nuisance conditions are not expected as a result of these operations, provided the equipment is well maintained. Therefore, the following condition will be listed on the ATC to ensure compliance:

- {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
California Health & Safety Code 41700 (Health Risk Assessment)

District Policy APR 1905 - Risk Management Policy for Permitting New and Modified Sources (dated 3/2/01) specifies that for an increase in emissions associated with a proposed new source or modification, the District perform an analysis to determine the possible impact to the nearest resident or worksite.

Therefore pursuant to the policy, a risk management review has been performed for this project to analyze the impact of toxic emissions. For projects where the increase in cancer risk is greater than one per million, Toxic Best Available Control Technology (T-BACT) is required.

The HRA results for this project are shown below (see the HRA Summary in Appendix B):

<table>
<thead>
<tr>
<th>RMR Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Categories</td>
</tr>
<tr>
<td>Prioritization Score</td>
</tr>
<tr>
<td>Acute Hazard Index</td>
</tr>
<tr>
<td>Chronic Hazard Index</td>
</tr>
<tr>
<td>Maximum Individual Cancer Risk</td>
</tr>
<tr>
<td>T-BACT Required?</td>
</tr>
<tr>
<td>Special Permit Requirements?</td>
</tr>
</tbody>
</table>

1 Prioritization for this unit was not conducted since it has been determined that all diesel-fired IC engines will result in a prioritization score greater than 1.0.
2 Acute and Chronic Hazard Indices were not calculated since there is no risk factor, or the risk factor is so low that the risk has been determined to be insignificant for this type of unit.

As demonstrated previously, T-BACT is required for this project because the HRA indicates that the risk is above the District’s thresholds for triggering T-BACT requirements.

For this project T-BACT is triggered for PM₁₀. T-BACT is satisfied with BACT for PM₁₀, as discussed in Appendix B, which is PM₁₀ emissions from this engine of 0.1 g/bhp-hr or less. The engine involved with this project has a PM₁₀ emissions factor of 0.14 g/bhp-hr, as presented previously in Section VII.B. Any engine model included in the ARB or EPA diesel engine certification lists and identified as having a PM₁₀ emission rate of 0.149 grams/bhp-hr or less, based on ISO 8178 test procedure, shall be deemed to meet the 0.1 grams/bhp-hr requirement. Therefore, compliance with the District’s Risk Management Policy is expected.

District policy APR 1905 also specifies that the increase in emissions associated with a proposed new source or modification not have acute or chronic indices, or a cancer risk greater than the District’s significance levels (i.e. acute and/or chronic indices greater than 1 and a cancer risk greater than 20 in a million). As outlined by
the HRA Summary in Appendix B of this report, the emissions increases for this project was determined to be less than significant.

Therefore, the following conditions will be listed on the ATC to ensure compliance:

- \{1898\} The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]

- \{edited 3486\} Emissions from this IC engine shall not exceed 0.14 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115]

**Rule 4201 Particulate Matter Concentration**

Particulate matter emissions from the engine will be less than or equal to the rule limit of 0.1 grain per cubic foot of gas at dry standard conditions as shown by the following:

\[
0.14 \frac{g - PM}{bhp - hr} \times \frac{1 g - PM}{0.96 g - PM} \times \frac{1 bhp - hr}{2,542.5 Btu} \times \frac{10^6 Btu}{9,051 dscf} \times \frac{0.35 Btu_{in}}{1 Btu_{in}} \times \frac{15.43 grain}{g} = 0.034 \frac{grain-PM}{dscf}
\]

Since 0.034 grain-PM/dscf is ≤ to 0.1 grain per dscf, compliance with Rule 4201 is expected.

Therefore, the following condition will be listed on the ATC to ensure compliance:

- \{14\} Particulate matter emissions shall not exceed 0.14 grains/dscf in concentration. [District Rule 4201]

**Rule 4701 Internal Combustion Engines – Phase 1**

Pursuant to Section 7.5.2.3 of District Rule 4702, as of June 1, 2006 District Rule 4701 is no longer applicable to diesel-fired emergency standby or emergency IC engines. Therefore, this diesel-fired emergency IC engine will comply with the requirements of District Rule 4702 and no further discussion is required.

**Rule 4702 Internal Combustion Engines – Phase 2**

The purpose of this rule is to limit the emissions of nitrogen oxides (NOx), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines.

This rule applies to any internal combustion engine with a rated brake horsepower greater than 50 horsepower.
Pursuant to Section 4.3, except for the requirements of Section 6.2.3, the requirements of this rule shall not apply to an internal combustion engine that meets the following conditions:

1) The engine is operated exclusively to preserve or protect property, human life, or public health during a disaster or state of emergency, such as a fire or flood, and
2) Except for operations associated with Section 4.3.1.1, the engine is limited to operate no more than 100 hours per calendar year as determined by an operational nonresettable elapsed operating time meter, for periodic maintenance, periodic readiness testing, and readiness testing during and after repair work of the engine, and
3) The engine is operated with a nonresettable elapsed operating time meter. In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions.

Therefore, the emergency IC engine involved with this project will only have to meet the requirements of Section 6.2.3 of this Rule.

Section 6.2.3 requires that an owner claiming an exemption under Section 4.2 or Section 4.3 shall maintain annual operating records. This information shall be retained for at least five years, shall be readily available, and submitted to the APCO upon request and at the end of each calendar year in a manner and form approved by the APCO. Therefore, the following conditions will be listed on the ATC to ensure compliance:

- {3816} This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 17 CCR 93115]

- {3489} The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
• {3475} All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

In addition, the following conditions will be listed on the ATC to ensure compliance:

• {3404} This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702]

• {3807} An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]

**Rule 4801 Sulfur Compounds**

Rule 4801 requires that sulfur compound emissions (as SO₂) shall not exceed 0.2% by volume. Using the ideal gas equation, the sulfur compound emissions are calculated as follows:

\[
\text{Volume SO}_2 = (n \times R \times T) + P
\]

\[n = \text{moles SO}_2\]

\[T \text{ (standard temperature)} = 60 ^\circ \text{F or 520} ^\circ \text{R}\]

\[R \text{ (universal gas constant)} = \frac{0.73 \text{psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{mol} \cdot ^\circ \text{R}}\]

\[
\frac{0.000015 \text{lb} - \text{S}}{\text{lb - fuel}} \times \frac{7.1 \text{lb}}{\text{gal}} \times \frac{64 \text{ lb} - \text{SO}_2}{9.051 \text{ scf}} \times \frac{1 \text{ MMBtu}}{0.137 \text{MMBtu}} \times \frac{1 \text{ gal}}{64 \text{ lb} - \text{SO}_2} \times \frac{10.73 \text{ psi} - \text{ft}^3}{\text{lb} - \text{mol} \cdot ^\circ \text{R}} \times \frac{520 ^\circ \text{R}}{14.7 \text{ psi}} \times 1,000,000 = 1.0 \text{ ppmv}
\]

Since 1.0 ppmv is $\leq 2,000$ ppmv, this engine is expected to comply with Rule 4801. Therefore, the following condition (previously proposed in this engineering evaluation) will be listed on the ATC to ensure compliance:

• {3395} Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]

**California Health & Safety Code 42301.6 (School Notice)**

The District has verified that this site is not located within 1,000 feet of a school. Therefore, pursuant to California Health and Safety Code 42301.6, a school notice is not required.
Title 13 California Code of Regulations (CCR), Section 2423 – Exhaust Emission Standards and Test Procedures, Off-Road Compression-Ignition Engines and Equipment (Required by Title 17 CCR, Section 93115 for New Emergency Diesel IC Engines)

This regulation stipulates that off-road compression-ignition engines shall not exceed the following applicable emissions standards.

Title 13 CCR, Section 2423 lists a diesel particulate emission standard of 0.40 g/bhp-hr (with 1.341 bhp/kW, equivalent to 0.54 g/kW-hr) for 2000 - 2005 model year engines with maximum power ratings of ≥ 751.1 bhp (equivalent to ≥ 560 kW). Therefore, the PM standards given in Title 13 CCR, Section 2423 are less stringent than ATCM, and thus the ATCM standards are the required standards and will be discussed in the following section.

Title 17 CCR, Section 93115, (e)(2)(A)(3)(b) stipulates that new stationary emergency diesel-fueled CI engines (> 50 bhp) must meet the VOC + NOx, and CO standards for off-road engines of the same model year and maximum rated power as specified in the Off-Road Compression-Ignition Engine Standards (Title 13 CCR, Section 2423) or the Tier 1 standards for an off-road engine if no standards have been established for an off-road engine of the same model year and maximum rated power.

In addition, Title 17 CCR, Section 93115, (e)(2)(A)(4)(a)(II) allows new direct-drive emergency fire pump engines to meet the Off-Road Compression Ignition Engine Standards for off-road engines with the same maximum rated power (title 13 CCR, section 2423) three years after the date the standards are applicable for off-road engines with the same maximum rated power. For this project the proposed emergency diesel IC engine will be used to power a firewater pump, but it is not a new installation. Therefore, the proposed emergency diesel IC engine will have to meet the Tier 2 and Tier 3 emission standards specified in the Off-Road Compression Ignition Engine Standards for off-road engines on the applicable dates specified.

The engine involved with this project is a certified 2016 model. The following table compares the requirements of Title 13 CCR, Section 2423 to the emissions factors for the 896 bhp make MTU 12V1600G80S diesel-fired emergency IC engine as given by the manufacturer (for NOx + VOC and PM emissions) and CARB/EPA certification (Engine Family GMMD21.OZWR) (for CO emissions).

<table>
<thead>
<tr>
<th>Source</th>
<th>Maximum Rated Power</th>
<th>Model Year</th>
<th>NOx</th>
<th>VOC</th>
<th>NOx + VOC</th>
<th>CO</th>
<th>PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title 13 CCR, §2423</td>
<td>≥ 751.0 bhp (≥ 560 kW)</td>
<td>2006 and later (Tier 2)</td>
<td>--</td>
<td>--</td>
<td>4.8 g/bhp-hr (6.4 g/kW-hr)</td>
<td>2.6 g/bhp-hr (3.5 g/kW-hr)</td>
<td>0.15 g/bhp-hr (0.20 g/kW-hr)</td>
</tr>
<tr>
<td>MTU 12V1600G80S</td>
<td>896 bhp</td>
<td>2016</td>
<td>4.38 g/bhp-hr</td>
<td>0.22 g/bhp-hr</td>
<td>4.60 g/bhp-hr</td>
<td>0.92 g/bhp-hr</td>
<td>0.14 g/bhp-hr</td>
</tr>
<tr>
<td>Meets Standard?</td>
<td>y</td>
<td>y</td>
<td>y</td>
<td>y</td>
<td>y</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

18
As presented in the table above, the proposed engine will satisfy the requirements of this section and compliance is expected.

**Right of the District to Establish More Stringent Standards:**

This regulation also stipulates that the District:

1. May establish more stringent diesel PM, NO\textsubscript{x} + VOC, VOC, NO\textsubscript{x}, and CO emission rate standards; and  
2. May establish more stringent limits on hours of maintenance and testing on a site-specific basis; and  
3. Shall determine an appropriate limit on the number of hours of operation for demonstrating compliance with other District rules and initial start-up testing

The District has not established more stringent standards at this time. Therefore, the standards previously established in this Section will be utilized.

**Title 17 California Code of Regulations (CCR), Section 93115 - Airborne Toxic Control Measure (ATCM) for Stationary Compression-Ignition (CI) Engines**

**Emergency Operating Requirements:**

This regulation stipulates that no owner or operator shall operate any new or in-use stationary diesel-fueled compression ignition (CI) emergency standby engine, in response to the notification of an impending rotating outage, unless specific criteria are met.

This section applies to emergency standby IC engines that are permitted to operate during non-emergency conditions for the purpose of providing electrical power. However, District Rule 4702 states that emergency standby IC engines may only be operated during non-emergency conditions for the purposes of maintenance and testing. Therefore, this section does not apply and no further discussion is required.

**Fuel and Fuel Additive Requirements:**

This regulation also stipulates that as of January 1, 2006 an owner or operator of a new or in-use stationary diesel-fueled CI emergency standby engine shall fuel the engine with CARB Diesel Fuel.

Since the engine involved with this project is a new or in-use stationary diesel-fueled CI emergency standby engine, these fuel requirements are applicable. Therefore, the following condition (previously proposed in this engineering evaluation) will be listed on the ATC to ensure compliance:

- (3395) Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]
At-School and Near-School Provisions:

This regulation stipulates that no owner or operator shall operate a new stationary emergency diesel-fueled CI engine, with a PM$_{10}$ emissions factor $>$ than 0.01 g/bhp-hr, for non-emergency use, including maintenance and testing, during the following periods:

1. Whenever there is a school sponsored activity, if the engine is located on school grounds, and
2. Between 7:30 a.m. and 3:30 p.m. on days when school is in session, if the engine is located within 500 feet of school grounds.

The District has verified that the engine is not located within 500 feet of a K-12 school. Therefore, conditions prohibiting non-emergency usage of the engine during school hours will not be placed on the permit.

Recordkeeping Requirements:

This regulation stipulates that as of January 1, 2005, each owner or operator of an emergency diesel-fueled CI engine shall keep a monthly log of usage that shall list and document the nature of use for each of the following:

a. Emergency use hours of operation;
b. Maintenance and testing hours of operation;
c. Hours of operation for emission testing;
d. Initial start-up hours; and
e. If applicable, hours of operation to comply with the testing requirements of National Fire Protection Association (NFPA) 25 — "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 1998 edition;
f. Hours of operation for all uses other than those specified in sections ‘a’ through ‘d’ above; and
g. For in-use emergency diesel-fueled engines, the fuel used. The owner or operator shall document fuel use through the retention of fuel purchase records that account for all fuel used in the engine and all fuel purchased for use in the engine, and, at a minimum, contain the following information for each individual fuel purchase transaction:

I. Identification of the fuel purchased as either CARB Diesel, or an alternative diesel fuel that meets the requirements of the Verification Procedure, or an alternative fuel, or CARB Diesel fuel used with additives that meet the requirements of the Verification Procedure, or any combination of the above;
II. Amount of fuel purchased;
III. Date when the fuel was purchased;
IV. Signature of owner or operator or representative of owner or operator who received the fuel; and
V. Signature of fuel provider indicating fuel was delivered.
The proposed new emergency diesel IC engine powering a firewater pump is exempt from the operating hours limitation provided the engine is only operated the amount of hours necessary to satisfy National Fire Protection Association (NFPA) regulations. Therefore, the following conditions (previously proposed in this engineering evaluation) will be listed on the ATC to ensure compliance:

- {3489} The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]

- {3475} All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

PM Emissions and Hours of Operation Requirements for New Diesel Engines:

This regulation stipulates that as of January 1, 2005, no person shall operate any new stationary emergency diesel-fueled CI engine that has a rated brake horsepower greater than 50, unless it meets all of the following applicable emission standards and operating requirements.

1. Emits diesel PM at a rate greater than 0.01 g/bhp-hr or less than or equal to 0.15 g/bhp-hr; or
2. Meets the current model year diesel PM standard specified in the Off-Road Compression Ignition Engine Standards for off-road engines with the same maximum rated power (Title 13 CCR, Section 2423), whichever is more stringent; and
3. Does not operate more than 50 hours per year for maintenance and testing purposes. Engine operation is not limited during emergency use and during emissions source testing to show compliance with the ATCM.

The proposed emergency diesel IC engine powering a firewater pump is exempt from the operating hours limitation provided the engine is only operated the amount of hours necessary to satisfy National Fire Protection Association (NFPA) regulations. Therefore, the following conditions (previously proposed in this engineering evaluation) will be listed on the ATC to ensure compliance:

- {edited 3486} Emissions from this IC engine shall not exceed X.XX g-PM10/bhp- hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115]
• {3816} This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 17 CCR 93115]

California Environmental Quality Act (CEQA)

The California Environmental Quality Act (CEQA) requires each public agency to adopt objectives, criteria, and specific procedures consistent with CEQA Statutes and the CEQA Guidelines for administering its responsibilities under CEQA, including the orderly evaluation of projects and preparation of environmental documents. The San Joaquin Valley Unified Air Pollution Control District (District) adopted its Environmental Review Guidelines (ERG) in 2001.

The basic purposes of CEQA are to:

• Inform governmental decision-makers and the public about the potential, significant environmental effects of proposed activities.
• Identify the ways that environmental damage can be avoided or significantly reduced.
• Prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives or mitigation measures when the governmental agency finds the changes to be feasible.
• Disclose to the public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.

Consistent with California Environmental Quality Act (CEQA) and CEQA Guidelines requirements, the San Joaquin Valley Air Pollution Control District (District) has adopted procedures and guidelines for implementing CEQA. The District's Environmental Review Guidelines (ERG) establishes procedures for avoiding unnecessary delay during the District's permitting process while ensuring that significant environmental impacts are thoroughly and consistently addressed. The ERG includes policies and procedures to be followed when processing permits for projects that are exempt under CEQA.

The State Legislature granted a number of exemptions from CEQA, including projects that require only ministerial approval. Based upon analysis of its own laws and consideration of CEQA provisions, the District has identified a limited number of District permitting activities considered to be ministerial approvals. As set forth in §4.2.1 of the ERG, projects permitted consistent with the District's Guidelines for Expedited Application Review (GEAR) are standard application reviews in which little or no discretion is used in issuing Authority to Construct (ATC) documents.
For the proposed project, the District performed an Engineering Evaluation (this document) and determined that the project qualifies for processing under the procedures set forth in the District's Permit Services Procedures Manual in the Guidelines for Expedited Application Review (GEAR). Thus, as discussed above, this issuance of such ATC(s) is a ministerial approval for the District and is not subject to CEQA provisions.

Indemnification Agreement/Letter of Credit Determination

According to District Policy APR 2010 (CEQA Implementation Policy), when the District is the Lead or Responsible Agency for CEQA purposes, an indemnification agreement and/or a letter of credit may be required. The decision to require an indemnity agreement and/or a letter of credit are based on a case-by-case analysis of a particular project's potential for litigation risk, which in turn may be based on a project's potential to generate public concern, its potential for significant impacts, and the project proponent's ability to pay for the costs of litigation without a letter of credit, among other factors.

As described above, the project requires only ministerial approval, and is exempt from the provisions of CEQA. As such, an Indemnification Agreement or a Letter of Credit will not be required for this project in the absence of expressed public concern.

IX. Recommendation

Pending a successful NSR Public Noticing period, issue Authority to Construct -416-39-0 subject to the permit conditions on the attached draft Authority to Construct in Appendix C.

X. Billing Information

<table>
<thead>
<tr>
<th>Permit Number</th>
<th>Fee Schedule</th>
<th>Fee Description</th>
<th>Fee Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-416-39-0</td>
<td>3020-10-E</td>
<td>896 bhp IC engine</td>
<td>$659.00</td>
</tr>
</tbody>
</table>

Appendixes

A. BACT Guideline and BACT Analysis
B. HRA Summary and AAQA
C. Draft ATC and Emissions Profile
Appendix A
BACT Guideline and BACT Analysis
Best Available Control Technology (BACT) Guideline 3.1.4
Last Update: 6/30/2001

Emergency Diesel I.C. Engine Driving a Fire Pump

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Achieved in Practice or in the SIP</th>
<th>Technologically Feasible</th>
<th>Alternate Basic Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>Oxidation Catalyst</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOx</td>
<td>Certified NOx emissions of 6.9 g/bhp-hr or less</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.1 grams/bhp-hr (if TBACT is triggered)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(corrected 7/16/01) 0.4 grams/bhp-hr (if TBACT is not triggered)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PM10</td>
<td>Low-sulfur diesel fuel (500 ppmw sulfur or less) or Very Low-sulfur diesel fuel (15 ppmw sulfur or less), where available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOx</td>
<td>Positive crankcase ventilation [unless it voids the Underwriters Laboratories (UL) certification]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC</td>
<td>Catalytic Oxidation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Any engine model included in the ARB or EPA diesel engine certification lists and identified as having a PM10 emission rate of 0.149 grams/bhp-hr or less, based on ISO 8178 test procedure, shall be deemed to meet the 0.1 grams/bhp-hr requirement. 2. A site-specific Health Risk Analysis is used to determine if TBACT is triggered. (Clarification added 05/07/01)

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in a state implementation plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.
Top Down BACT Analysis for the Emergency IC Engine(s)

Oxides of nitrogen (NO\textsubscript{X}) are generated from the high temperature combustion of the diesel fuel. A majority of the NO\textsubscript{X} emissions are formed from the high temperature reaction of nitrogen and oxygen in the inlet air. The rest of the NO\textsubscript{X} emissions are formed from the reaction of fuel-bound nitrogen with oxygen in the inlet air.

1. BACT Analysis for NO\textsubscript{X} Emissions:

a. Step 1 - Identify all control technologies

The SJVUAPCD BACT Clearinghouse guideline 3.1.4 identifies achieved in practice BACT for NO\textsubscript{X} emissions from emergency diesel IC engines powering a firewater pump as follows:

1) Certified emissions of 6.9 g-NO\textsubscript{X}/bhp-hr or less

No technologically feasible alternatives or control alternatives identified as alternate basic equipment for this class and category of source are listed.

b. Step 2 - Eliminate technologically infeasible options

There are no technologically infeasible options to eliminate from step 1.

c. Step 3 - Rank remaining options by control effectiveness

No ranking needs to be done because the applicant has proposed the achieved in practice option.

d. Step 4 - Cost Effectiveness Analysis

The applicant has proposed the only control achieved in practice in the ranking list from Step 3. Therefore, per SJVUAPCD BACT policy, the cost effectiveness analysis is not required.

e. Step 5 - Select BACT

BACT for NO\textsubscript{X} emissions from this emergency diesel IC engine powering a firewater pump is having certified emissions of 6.9 g-NO\textsubscript{X}/bhp-hr or less. The applicant has proposed to install a 896 bhp emergency diesel IC engine powering a firewater pump with certified emissions of 6.9 g-NO\textsubscript{X}/bhp-hr or less; therefore BACT for NO\textsubscript{X} emissions is satisfied.
3. BACT Analysis for PM$_{10}$ Emissions:

Particulate matter (PM$_{10}$) emissions occur from the reaction of various elements in the diesel fuel including fuel sulfur.

a. Step 1 - Identify all control technologies

The SJVUAPCD BACT Clearinghouse guideline 3.1.4, X quarter 200X, identifies achieved in practice BACT for PM$_{10}$ emissions from emergency diesel IC engines powering a firewater pump as follows:

1) Certified emissions of (0.4 g-PM$_{10}$/bhp-hr since T-BACT is not triggered for this project) or (certified emissions of 0.1 g-PM$_{10}$/bhp-hr since T-BACT is triggered for this project) or less

No technologically feasible alternatives or control alternatives identified as alternate basic equipment for this class and category of source are listed.

b. Step 2 - Eliminate technologically infeasible options

There are no technologically infeasible options to eliminate from step 1.

c. Step 3 - Rank remaining options by control effectiveness

No ranking needs to be done because the applicant has proposed the achieved in practice option.

d. Step 4 - Cost Effectiveness Analysis

The applicant has proposed the only control achieved in practice in the ranking list from Step 3. Therefore, per SJVUAPCD BACT policy, the cost effectiveness analysis is not required.

e. Step 5 - Select BACT

BACT for PM$_{10}$ emissions from this emergency diesel IC engine powering a firewater pump is having certified emissions of 0.1 g-PM$_{10}$/bhp-hr or less. The applicant has proposed to install a 896 bhp emergency diesel IC engine powering a firewater pump with certified emissions of 0.1 g-PM$_{10}$/bhp-hr or less; therefore BACT for PM$_{10}$ emissions is satisfied.
BACT Analysis for VOC Emissions:

5. BACT Analysis for VOC Emissions:

Volatile organic compounds (VOC) are emitted from the crankcase of the engine as a result of piston ring blow-by.

a. Step 1 - Identify all control technologies

The SJVUAPCD BACT Clearinghouse guideline 3.1.4 identifies achieved in practice BACT for VOC emissions from emergency diesel IC engines powering a firewater pump as follows:

1) Positive crankcase ventilation (unless it voids the Underwriters Laboratories (UL) certification)

In addition, the SJVUAPCD BACT Clearinghouse guideline 3.1.4 identifies technologically feasible BACT for VOC emissions from emergency diesel IC engines powering a firewater pump as follows:

1) Catalytic oxidation

No control alternatives identified as alternate basic equipment for this class and category of source are listed.

b. Step 2 - Eliminate technologically infeasible options

Catalytic oxidizers only function on engines that operate in a rich-burn mode. The proposed diesel engine operates in a lean-burn mode and; therefore, a catalytic oxidizer cannot be used.

c. Step 3 - Rank remaining options by control effectiveness

1) Positive crankcase ventilation (unless it voids the Underwriters Laboratories (UL) certification)

d. Step 4 - Cost effectiveness analysis

No technologically infeasible options remain; therefore, per SJVUAPCD BACT policy, a cost effectiveness analysis is not required.

e. Step 5 - Select BACT

BACT for VOC emissions from this emergency diesel IC engine powering a firewater pump is having positive crankcase ventilation. The applicant has proposed to install a 896 bhp emergency diesel IC engine powering a firewater pump with positive crankcase ventilation; therefore BACT for VOC emissions is satisfied.
Appendix B
HRA Summary and AAQA
San Joaquin Valley Air Pollution Control District
Risk Management Review

To: David Torii - Permit Services
From: Cheryl Lawler - Permit Services
Date: September 6, 2016
Facility Name: WM Bolthouse Farms, Inc.
Location: 7200 E. Brundage Lane, Bakersfield
Application #: S-416-39-0
Project #: S-1163021

A. RMR SUMMARY

<table>
<thead>
<tr>
<th>Categories</th>
<th>Emergency Diesel IC Engine (Unit 39-0)</th>
<th>Project Totals</th>
<th>Facility Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prioritization Score</td>
<td>N/A¹</td>
<td>N/A¹</td>
<td>N/A¹</td>
</tr>
<tr>
<td>Acute Hazard Index</td>
<td>N/A²</td>
<td>N/A²</td>
<td>0.48</td>
</tr>
<tr>
<td>Chronic Hazard Index</td>
<td>N/A²</td>
<td>N/A²</td>
<td>0.01</td>
</tr>
<tr>
<td>Maximum Individual Cancer Risk</td>
<td>1.25E-06</td>
<td>1.25E-06</td>
<td>3.76E-06</td>
</tr>
<tr>
<td>T-BACT Required?</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Permit Requirements?</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3 Prioritization for this unit was not conducted since it has been determined that all diesel-fired IC engines will result in a prioritization score greater than 1.0.
4 Acute and Chronic Hazard Indices were not calculated since there is no risk factor, or the risk factor is so low that the risk has been determined to be insignificant for this type of unit.

**Proposed Permit Requirements**

To ensure that human health risks will not exceed District allowable levels; the following shall be included as requirements for:

1. The PM10 emissions rate shall not exceed 0.14 g/bhp-hr based on US EPA certification using ISO 8178 test procedure.
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction.
3. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year.
T-BACT is required for this unit because of emissions of Diesel Exhaust which is a PM-10. In accordance with District policy, BACT for this unit will be considered to be T-BACT.

B. RMR REPORT

I. Project Description

Technical Services received a request on August 31, 2016, to perform an Ambient Air Quality Analysis and a Risk Management Review for a 896 bhp emergency Diesel IC engine powering a firewater pump.

II. Analysis

Technical Services performed a screening level health risk assessment using the District developed DICE database.

The following parameters were used for the review:

<table>
<thead>
<tr>
<th>Analysis Parameters</th>
<th>Unit 39-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source Type</td>
<td>Point</td>
</tr>
<tr>
<td>BHP</td>
<td>896</td>
</tr>
<tr>
<td>Closest Receptor (m)</td>
<td>137</td>
</tr>
<tr>
<td>Max Hours per Year</td>
<td>100</td>
</tr>
</tbody>
</table>

In addition, Technical Services performed modeling for criteria pollutants CO, NO\textsubscript{x}, SO\textsubscript{2}, and PM10. The AERMOD model was used, with the parameters outlined below and meteorological data for 2010-2014 from Bakersfield to determine the dispersion factors (i.e., the predicted concentration or \(X\) divided by the normalized source strength or \(Q\)) for a receptor grid.

<table>
<thead>
<tr>
<th>Analysis Parameters (Unit 39-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source Type</td>
</tr>
<tr>
<td>Stack Height (m)</td>
</tr>
<tr>
<td>Stack Diameter (m)</td>
</tr>
<tr>
<td>Stack Exit Velocity (m/s)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit #</th>
<th>NO\textsubscript{x} (Lbs.)</th>
<th>SO\textsubscript{x} (Lbs.)</th>
<th>CO (Lbs.)</th>
<th>PM\textsubscript{10} (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>39-0</td>
<td>0 865</td>
<td>0 1</td>
<td>0 182</td>
<td>0 28</td>
</tr>
</tbody>
</table>
The results from the Criteria Pollutant Modeling are as follows:

**Criteria Pollutant Modeling Results**

<table>
<thead>
<tr>
<th>Emergency Diesel ICE</th>
<th>1 Hour</th>
<th>3 Hours</th>
<th>8 Hours</th>
<th>24 Hours</th>
<th>Annual</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>NA¹</td>
<td>X</td>
<td>NA¹</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>NO₂</td>
<td>NA¹</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Pass</td>
</tr>
<tr>
<td>SO₂</td>
<td>NA¹</td>
<td>X</td>
<td>X</td>
<td>NA¹</td>
<td>Pass</td>
</tr>
<tr>
<td>PM₁₀</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>NA¹</td>
<td>Pass²</td>
</tr>
<tr>
<td>PM₂.₅</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>NA¹</td>
<td>Pass²</td>
</tr>
</tbody>
</table>

¹Results were taken from the attached PSD spreadsheet.  
²The project is an intermittent source as defined in APR-1920. In accordance with APR-1920, compliance with short-term (i.e., 1-hour, 3-hour, 8-hour and 24-hour) standards is not required.  
³The criteria pollutants are below EPA’s level of significance as found in 40 CFR Part 51.165 (b)(2).

### III. Conclusion

The Cancer Risk associated with the operation of the proposed diesel IC engine is greater than 1.0 in a million, but less than 20 in a million. In accordance with the District's Risk Management Policy, the project is approved with Toxic Best Available Control Technology (T-BACT) for PM10.

To ensure that human health risks will not exceed District allowable levels; the permit requirements listed on Page 1 of this report must be included for this proposed unit.

These conclusions are based on the data provided by the applicant and the project engineer. Therefore, this analysis is valid only as long as the proposed data and parameters do not change.

The emissions from the proposed equipment will not cause or contribute significantly to a violation of the State and National AAQS.
Appendix C
Draft ATC
AUTHORITY TO CONSTRUCT

PERMIT NO: S-416-39-0

LEGAL OWNER OR OPERATOR: WM BOLTHOUSE FARMS, INC.
MAILING ADDRESS: ATTN. JON IRIART
7200 E. BRUNDAGE LANE
BAKERSFIELD, CA 93307

LOCATION: 7200 E BRUNDAGE LN
BAKERSFIELD, CA 93307

EQUIPMENT DESCRIPTION:
896 BHP (INTERMITTENT) MTU MODEL 12V600G80S TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE
POWERING A FIREFIGHTER PUMP

CONDITIONS

1. (98) No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. (1897) This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201]
3. (1898) The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
4. (3404) This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
5. (3816) This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems". Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 17 CCR 93115]
6. (14) Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO
7. (15) No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]

8. (3807) An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702 and 17 CCR 93115]

9. Emissions from this IC engine shall not exceed any of the following limits: 4.38 g-NOx/bhp-hr, 0.92 g-CO/bhp-hr, or 0.22 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115]

10. Emissions from this IC engine shall not exceed 0.14 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115]

11. (3395) Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115]

12. (3475) All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

13. (3489) The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]