NOV 25 2009

Ron Vander Weerd
Yokum Dairy
1804 S. Shenandoah Street
Visalia, CA 93277

Re: Notice of Preliminary Decision - Authority to Construct
Project Number: C-1093727

Dear Mr. Vander Weerd:

Enclosed for your review and comment is the District’s analysis of Yokum Dairy’s application for an Authority to Construct for a 760 hp diesel-fired emergency IC engine, at 10234 Lansing Ave in Hanford.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day public comment period which begins on the date of publication of the public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Ms. Suzanne Medina of Permit Services at (559) 230-5883.

Sincerely,

David Warner
Director of Permit Services

DW:srm
Enclosures
NOV 25 2009

Mike Tollstrup, Chief
Project Assessment Branch
Stationary Source Division
California Air Resources Board
PO Box 2815
Sacramento, CA  95812-2815

Re: Notice of Preliminary Decision - Authority to Construct
Project Number: C-1093727

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Sincerely,

David Warner
Director of Permit Services

DW: srm
Enclosure

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
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Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585

www.valleyair.org www.healthyairliving.com
NOTICE OF PRELIMINARY DECISION
FOR THE PROPOSED ISSUANCE OF
AN AUTHORITY TO CONSTRUCT

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Authority to Construct to Yokum Dairy for a 760 hp diesel-fired emergency IC engine, at 10234 Lansing Ave in Hanford.

The analysis of the regulatory basis for this proposed action, Project #C-1093727, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. Written comments on this project must be submitted within 30 days of the publication date of this notice to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 1990 EAST GETTYSBURG AVENUE, FRESNO, CA 93726.
I. Proposal

Yokum Dairy is proposing to install a 760 bhp diesel-fired emergency standby internal combustion (IC) engine powering an electrical generator.

II. Applicable Rules

- Rule 2201 New and Modified Stationary Source Review Rule (9/21/06)
- Rule 2520 Federally Mandated Operating Permits (6/21/01)
- Rule 4001 New Source Performance Standards (4/14/99)
- Rule 4002 National Emission Standards for Hazardous Air Pollutants (5/20/04)
- 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 17 CCR, Section 93115 - Airborne Toxic Control Measure (ATCM) for Stationary Compression-Ignition (CI) Engines
- California Environmental Quality Act (CEQA)
- 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 10234 Lansing Ave in Hanford, CA. 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 standby engine powers an electrical generator. Other than emergency standby operation, the engine may be operated up to 100 hours per year for maintenance and testing purposes.

V. Equipment Listing

C-7126-8-0: 760 BHP DETROIT DIESEL MODEL 6063HK36 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

VI. Emission Control Technology Evaluation

The applicant has proposed to install a Tier 2 certified diesel-fired IC engine that is fired on very low-sulfur diesel fuel (0.0015% by weight sulfur maximum).

The proposed engine(s) meet the latest Tier Certification requirements; therefore, the engine(s) meets the latest ARB/EPA emissions standards for diesel particulate matter, hydrocarbons, nitrogen oxides, and carbon monoxide (see Appendix C for a copy of the emissions data sheet and/or the ARB/EPA executive order).

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

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

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor (g/bhp-hr)</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO\textsubscript{x}</td>
<td>4.60</td>
<td>Engine Manufacturer</td>
</tr>
<tr>
<td>SO\textsubscript{x}</td>
<td>0.0051</td>
<td>Mass Balance Equation Below</td>
</tr>
<tr>
<td>PM\textsubscript{10}</td>
<td>0.06</td>
<td>Engine Manufacturer</td>
</tr>
<tr>
<td>CO</td>
<td>0.51</td>
<td>Engine Manufacturer</td>
</tr>
<tr>
<td>VOC</td>
<td>0.05</td>
<td>Engine Manufacturer</td>
</tr>
</tbody>
</table>

\[ 0.00015 \text{ lb-S} \times \frac{7.1 \text{ lb-fuel}}{\text{gallon}} \times \frac{2 \text{ lb-SO}_2}{1 \text{ lb}} \times \frac{1 \text{ gal}}{137,000 \text{ Btu}} \times \frac{1 \text{ bhp input}}{0.35 \text{ bhp out}} \times \frac{2,542.5 \text{ Btu}}{1 \text{ bhp-hr}} \times \frac{453.6 \text{ g}}{1 \text{ lb}} = 0.0051 \frac{\text{ g-SO}_2}{\text{ bhp-hr}} \]

C. Calculations

1. Pre-Project Emissions (PE1)

Since this is a new emissions unit, \( PE_1 = 0 \).

2. Post-Project PE (PE2)

The daily and annual PE are calculated as follows:

<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>Annual Hours of Operation (hrs/yr)</th>
<th>Daily PE2 (lb/day)</th>
<th>Annual PE2 (lb/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO\textsubscript{x}</td>
<td>4.6</td>
<td>760</td>
<td>24</td>
<td>100</td>
<td>184.8</td>
<td>770</td>
</tr>
<tr>
<td>SO\textsubscript{x}</td>
<td>0.0051</td>
<td>760</td>
<td>24</td>
<td>100</td>
<td>0.2</td>
<td>1</td>
</tr>
<tr>
<td>PM\textsubscript{10}</td>
<td>0.06</td>
<td>760</td>
<td>24</td>
<td>100</td>
<td>2.4</td>
<td>10</td>
</tr>
<tr>
<td>CO</td>
<td>0.51</td>
<td>760</td>
<td>24</td>
<td>100</td>
<td>20.5</td>
<td>85</td>
</tr>
<tr>
<td>VOC</td>
<td>0.05</td>
<td>760</td>
<td>24</td>
<td>100</td>
<td>2.0</td>
<td>8</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.

SSPE1 is summarized in the following table. See Appendix F for detailed SSPE calculations.

<table>
<thead>
<tr>
<th>SSPE1</th>
<th>NO\textsubscript{X} (lb/yr)</th>
<th>SO\textsubscript{X} (lb/yr)</th>
<th>PM\textsubscript{10} (lb/yr)</th>
<th>CO (lb/yr)</th>
<th>VOC (lb/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSPE1 Total</td>
<td>25,795</td>
<td>13</td>
<td>19,758</td>
<td>7,841</td>
<td>57,995</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.

For this project the change in emissions for the facility is due to the installation of the new emergency standby IC engine(s), permit unit -8-0. Thus:

<table>
<thead>
<tr>
<th>SSPE2</th>
<th>NO\textsubscript{X} (lb/yr)</th>
<th>SO\textsubscript{X} (lb/yr)</th>
<th>PM\textsubscript{10} (lb/yr)</th>
<th>CO (lb/yr)</th>
<th>VOC (lb/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permit Unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-7126-8-0</td>
<td>770</td>
<td>1</td>
<td>10</td>
<td>85</td>
<td>8</td>
</tr>
<tr>
<td>SSPE1</td>
<td>25,795</td>
<td>13</td>
<td>19,758</td>
<td>7,841</td>
<td>57,995</td>
</tr>
<tr>
<td>SSPE2 Total</td>
<td>26,565</td>
<td>14</td>
<td>19,768</td>
<td>7,926</td>
<td>58,003</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 an SSPE2 equal to or exceeding one or more of the threshold values listed in the table below. 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.
In determining whether a facility is a major source, fugitive emissions are not counted unless the facility belongs to certain specified source categories. 40 CFR 71.2 (Definitions, Major Source (2)) states the following:

(2) A major stationary source of air pollutants or any group of stationary sources as defined in section 302 of the Act, that directly emits, or has the potential to emit, 100 tpy or more of any air pollutant (including any major source of fugitive emissions of any such pollutant, as determined by rule by the Administrator). The fugitive emissions of a stationary source shall not be considered in determining whether it is a major stationary source for the purposes of section 302(j) of the Act, unless the source belongs to one of the following categories of stationary source: (i) Coal cleaning plants (with thermal dryers); (ii) Kraft pulp mills; (iii) Portland cement plants; (iv) Primary zinc smelters; (v) Iron and steel mills; (vi) Primary aluminum ore reduction plants; (vii) Primary copper smelters; (viii) Municipal incinerators capable of charging more than 250 tons of refuse per day; (ix) Hydrofluoric, sulfuric, or nitric acid plants; (x) Petroleum refineries; (xi) Lime plants; (xii) Phosphate rock processing plants; (xiii) Coke oven batteries; (xiv) Sulfur recovery plants; (xv) Carbon black plants (furnace process); (xvi) Primary lead smelters; (xvii) Fuel conversion plants; (xviii) Sintering plants; (xix) Secondary metal production plants; (xx) Chemical process plants; (xxi) Fossil-fuel boilers (or combination thereof) totaling more than 250 million British thermal units per hour heat input; (xxii) Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels; (xxiii) Taconite ore processing plants; (xxiv) Glass fiber processing plants; (xxv) Charcoal production plants; (xxvi) Fossil-fuel-fired steam electric plants of more than 250 million British thermal units per hour heat input; or (xxvii) Any other stationary source category which, as of August 7, 1980, is being regulated under section 111 or 112 of the Act.

Because agricultural operations do not fall under any of the specific source categories listed above, fugitive emissions are not counted when determining if an agricultural operation is a major source. 40 CFR 71.2 defines fugitive emissions as "those emissions which could not reasonably pass through a stack, chimney, vent, or other functionally-equivalent opening."
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 3.22

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

7. Major Modification

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 previously, the facility is not a Major Source for any criteria pollutant; therefore, the project does not constitute a Major Modification.
As shown in the previous section, this project does not constitute a Major Modification. Therefore, in accordance with District Rule 2201, Section 3.17, this project does not constitute a Federal Major Modification and no further discussion is required.

9. **Quarterly Net Emissions Change (QNEC)**

The QNEC is calculated solely to establish emissions that are used to complete the District's PAS emissions profile screen. Detailed QNEC calculations are included in Appendix E.

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.

As discussed in Section I, the facility is proposing to install a new emergency standby IC engine. Additionally, as determined in Section VII.C.7, this project does not result in a Major Modification. Therefore, BACT can only be triggered if the daily emissions exceed 2.0 lb/day for any pollutant.

The daily emissions from the new engine are compared to the BACT threshold levels in the following table:
As shown above, BACT will be triggered for NO\textsubscript{x}, and PM\textsubscript{10}, emissions from the engine for this project.

2. BACT Guideline

BACT Guideline 3.1.1, which appears in Appendix B of this report, covers diesel-fired emergency IC engines.

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 B of this report, BACT is satisfied with:

\[
\begin{align*}
\text{NO}_x: & \quad \text{Latest EPA Tier Certification level for applicable horsepower range} \\
\text{PM}_{10}: & \quad 0.15 \text{ g/hp-hr or the Latest EPA Tier Certification level for applicable horsepower range, whichever is more stringent. (ATCM)}
\end{align*}
\]

The following condition(s) will be listed on the ATC to ensure compliance with the PM\textsubscript{10} BACT emissions limit(s):

- Emissions from this IC engine shall not exceed 0.06 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 17 CCR 93115, 40 CFR Part 60 Subpart IIII]

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

<table>
<thead>
<tr>
<th>Public Notice Applicability</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Is this a New Major Source, which is a new facility that is also a Major Source?</td>
<td>No</td>
</tr>
<tr>
<td>Does this project trigger a Major Modification?</td>
<td>No</td>
</tr>
<tr>
<td>For the engine in this project, Is the Potential to Emit greater than 100 pounds during any one day for any one pollutant?</td>
<td>Yes</td>
</tr>
<tr>
<td>Does this project result in the offset thresholds being surpassed?</td>
<td>No</td>
</tr>
<tr>
<td>Is the Stationary Increase in Potential to emit greater than 20,000 lb/year for any one pollutant?</td>
<td>No</td>
</tr>
</tbody>
</table>

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(s) 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. Therefore, the following conditions will be listed on the ATC to ensure compliance:

- Emissions from this IC engine shall not exceed any of the following limits: 4.6 g-NOx/bhp-hr, 0.51 g-CO/bhp-hr, or 0.05 g-VOC/bhp-hr. [District Rule 2201, 17 CCR 93115, and 40 CFR Part 60 Subpart III]

- Emissions from this IC engine shall not exceed 0.06 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 17 CCR 93115, and 40 CFR Part 60 Subpart III]

- Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CCR 93115, and 40 CFR Part 60 Subpart III]

E. Compliance Assurance

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

2. Monitoring

No monitoring is required to demonstrate compliance with Rule 2201.

3. Recordkeeping

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)

Section 4.14.1 of this Rule requires that an ambient air quality analysis (AAQA) 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 Technical Services Division of the SJVAPCD conducted the required analysis. Refer to Appendix D of this document for the AAQA summary sheet.

The proposed location is in an attainment area for NOx, CO, and SOx. As shown by the AAQA summary sheet the proposed equipment will not cause a violation of an air quality standard for NOx, CO, or SOx.

The proposed location is in a non-attainment area for PM10. The increase in the ambient PM10 concentration due to the proposed equipment is shown on the table titled Calculated Contribution. The levels of significance, from 40 CFR Part 51.165 (b)(2), are shown on the table titled Significance Levels.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Calculated Contributions (µg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM10</td>
<td>Annual Avg.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Significance Levels (µg/m³) - 40 CFR Part 51.165 (b)(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM10</td>
<td>Annual Avg.</td>
</tr>
</tbody>
</table>
As shown, the calculated contribution of PM₁₀ will not exceed the EPA significance level. This project is not expected to cause or make worse a violation of an air quality standard.

**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**

The following table demonstrates how the proposed engine(s) will comply with the requirements of 40 CFR Part 60 Subpart III.

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine(s) must meet the appropriate Subpart III emission standards for new engines, based on the model year, size, and number of liters per cylinder.</td>
<td>The applicant has proposed the use of engine(s) that are certified to the latest EPA Tier Certification level for the applicable horsepower range, guaranteeing compliance with the emission standards of Subpart III.</td>
</tr>
<tr>
<td>Engine(s) must be fired on 500 ppm sulfur content fuel or less, and fuel with a minimum octane index of 40 or a maximum aromatic content of 35 percent by volume. Starting in October 1, 2010, the maximum allowable sulfur fuel content will be lowered to 15 ppm.</td>
<td>The applicant has proposed the use of CARB certified diesel fuel, which meets all of the fuel requirements listed in Subpart III. A permit condition enforcing this requirement was included earlier in this evaluation.</td>
</tr>
</tbody>
</table>
| The operator/owner must install a non-resettable hour meter prior to startup of the engine(s). | The applicant has proposed to install a non-resettable hour meter. The following condition will be included on the permit:  
  - This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart III] |
| Emergency engine(s) may be operated for the purpose of maintenance and testing up to 100 hours per year. There is no limit on emergency use. | District Rule 4702 limits this engine maintenance and testing to 100 hours/year.  
  - {modified 3809} 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. [District Rules 2201 and 4702 and 40 CFR 60 Subpart III] |
The owner/operator must operate and maintain the engine(s) and any installed control devices according to the manufacturer's written instructions.

The following condition will be included on the permit:
- This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart III]

**Rule 4002 National Emission Standards for Hazardous Air Pollutants**


Emergency engines are subject to this subpart if they are operated at a major or area source of Hazardous Air Pollutant (HAP) emissions. A major source of HAP emissions is a facility that has the potential to emit any single HAP at a rate of 10 tons/year or greater or any combinations of HAPs at a rate of 25 tons/year or greater. An area source of HAPs is a facility is not a major source of HAPs. The proposed engine(s) are new stationary RICE located at an area source of HAP emissions; therefore, these engines are subject to this Subpart.

**40 CFR 63 Subpart ZZZZ requires the following engines to comply with 40 CFR 60 Subpart III:**

1. New emergency engines located at area sources of HAPs
2. Emergency engines rated less than or equal to 500 bhp and located at major sources of HAPs

The proposed engine(s) will be in compliance with 40 CFR 60 Subpart III.

Additionally, 40 CFR 63 Subpart ZZZZ requires engines rated greater 500 bhp and located at major sources of HAPs to meet the notification requirements of §63.6645(h); however, that section only applies if an initial performance test is required. Since an initial performance test is not required for emergency engines, the notification requirement is not applicable.

The proposed engines are expected to be in compliance with 40 CFR 63 Subpart ZZZZ.

**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, a risk management review (RMR) was performed for this project. The RMR results are summarized in the following table, and can be seen in detail in Appendix D.

<table>
<thead>
<tr>
<th>RMR Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit</strong></td>
</tr>
<tr>
<td>C-7126-8-0</td>
</tr>
</tbody>
</table>

The following conditions will be listed on the ATC to ensure compliance with the RMR:

- {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]

- Emissions from this IC engine shall not exceed 0.06 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII]
Rule 4201 Particulate Matter Concentration

Rule 4201 limits particulate matter emissions from any single source operation to 0.1 g/dscf, which, as calculated below, is equivalent to a PM$_{10}$ emission factor of 0.4 g-PM$_{10}$/bhp-hr.

\[ 0.1 \frac{\text{grain-PM}}{\text{dscf}} \times \frac{g}{15.43 \text{ grain}} \times \frac{1 \text{ Btu}}{0.35 \text{ Btu}_{\text{out}}} \times \frac{9,051 \text{ dscf}}{1 \text{ Btu}} \times \frac{2,542.5 \text{ Btu}}{1 \text{ bhp-hr}} \times \frac{9.6 \text{ g-PM}_{10}}{1 \text{ g-PM}} = 0.4 \frac{\text{g-PM}_{10}}{\text{bhp-hr}} \]

The new engine has a PM$_{10}$ emission factor less than 0.4 g/bhp-hr. Therefore, compliance is expected and the following condition will be listed on the ATC:

- {14} Particulate matter emissions shall not exceed 0.1 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, the proposed emergency internal combustion engine(s) will comply with the requirements of District Rule 4702 and no further discussion is required.

Rule 4702 Internal Combustion Engines – Phase 2

The following table demonstrates how the proposed engine(s) will comply with the requirements of District Rule 4702.

<table>
<thead>
<tr>
<th>District Rule 4702 Requirements Emergency Standby IC Engines</th>
<th>Proposed Method of Compliance with District Rule 4702 Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation of emergency standby engines is limited to 100 hours or less per calendar year for non-emergency purposes, verified through the use of a non-resettable elapsed operating time meter.</td>
<td>The following condition will be included on the permit:</td>
</tr>
<tr>
<td></td>
<td>• {modified 3809} 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. [District Rules 2201 and 4702 and 40 CFR 60 Subpart III]</td>
</tr>
<tr>
<td>Emergency standby engines cannot be used to reduce the demand for electrical power when normal electrical power line service has not failed, or to produce power for the electrical distribution system, or in conjunction with a voluntary utility demand reduction program or interruptible power contract</td>
<td>The following conditions will be included on the permit:</td>
</tr>
<tr>
<td></td>
<td>• {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]</td>
</tr>
<tr>
<td></td>
<td>• {3808} This engine shall not be used to</td>
</tr>
</tbody>
</table>
The owner/operator must operate and maintain the engine(s) and any installed control devices according to the manufacturers written instructions. A permit condition enforcing this requirement was shown earlier in the evaluation.

The owner/operator must monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier.

Records of the total hours of operation of the emergency standby engine, type of fuel used, purpose for operating the engine, all hours of non-emergency and emergency operation, and support documentation must be maintained.

The following condition will be included on the permit:

- {modified 3496} 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, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. 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]

**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:

\[
\text{Volume SO}_2 = \frac{n \times R \times T}{P}
\]

- \(n\) = moles SO₂
- \(T\) (standard temperature) = 60 °F or 520 °R
R (universal gas constant) = \frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{mol} \cdot \circR}

\frac{0.000015 \text{ lb} - \text{S}}{\text{lb} - \text{fuel}} \times \frac{7.1 \text{ lb}}{\text{gal}} \times \frac{64 \text{ lb} - \text{SO}_2}{2 \text{ lb}} \times \frac{1 \text{ MMMBtu}}{9.051 \text{ scf}} \times \frac{1 \text{ gal}}{1.137 \text{ MMBtu}} \times \frac{\text{lb} - \text{mol}}{64 \text{ lb} - \text{SO}_2} \times \frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} - \text{mol} \cdot \circR} \times \frac{520^\circ\text{R}}{14.7 \text{ psi}} \times 1,000,000 = 1.0 \text{ ppmv}

Since 1.0 ppmv is ≤ 2,000 ppmv, this engine is expected to comply with Rule 4801. Therefore, the following condition will be listed on the ATC to ensure compliance:

- \{modified 3395\} Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CFR 93115, 40 CFR Part 60 Subpart III]

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

§93115.1 – Purpose

The purpose of this ATCM is to reduce diesel particulate matter (PM) and criteria pollutant emissions from stationary diesel-fueled compression ignition (CI) engines.

§93115.2 – Applicability

(b) Except as provided in sections 93115.3 and 93115.9, this ATCM applies to any person who owns or operates a stationary CI engine in California with a rated brake horsepower greater than 50 (>50 bhp).

The IC engine in this project is a CI engine with a rated bhp > 50; therefore, this ATCM applies.

§93115.3 – Exemptions

(b) The requirements specified in sections 93115.6, 93115.7, and 93115.10(a) do not apply to new or in-use stationary diesel-fueled CI engines used in agricultural operations.

The engine in this project is used in an agricultural operation; therefore, the requirements specified in sections 93115.6, 93115.7, and 93115.10(a) do not apply. To
ensure compliance with the basis for this exemption, the following condition will be included on the ATC:

- {4002} This IC engine shall only be used for the growing and harvesting of crops or the raising of fowl or animals for the primary purpose of making a profit, providing a livelihood, or conducting agricultural research or instruction by an educational institution. [17 CCR 93115]

§93115.4 – Definitions

(a) For purposes of this ATCM, the following definition applies:

(50) "New" or "New CI Engine" means the following:

(A) a stationary CI engine installed at a facility after January 1, 2005, including an engine relocated from an off-site location after January 1, 2005, except the following shall be deemed in-use engines:

1. a replacement stationary CI engine that is installed to temporarily replace an in-use engine while the in-use engine is undergoing maintenance and testing, provided the replacement engine emits no more than the in-use engine, and the replacement engine is not used more than 180 days cumulatively in any 12-month rolling period;

2. an engine for which a district-approved application for a district permit or engine registration for stationary sources was submitted to the District prior to January 1, 2005, even though the engine was installed after January 1, 2005;

3. an engine that is one of four or more engines owned by an owner or operator and is relocated prior to January 1, 2008, to an offsite location that is owned by the same owner or operator;

4. an engine, or replacement for an engine, used in agricultural operations that is relocated within the same facility or to another facility under the same owner or operator for use in agricultural operations, unless the engine is sited where an engine is not currently located and has not been previously located.

The CI engine in this project meets the definition of “new” because it was installed after January 1, 2005 and does not fall into any of the “in-use” categories (50)(A)(1) – (4) above.

§93115.5 – Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50

Subsection (a) applies to new stationary CI engines. Since the engine in this project is “new,” the fuel requirements in subsection (a) are applicable.
The CI engine in this project meets the definition of “new” because it was installed after January 1, 2005 and does not fall into any of the “in-use” categories (50)(A)(1) – (4) above.

§93115.5 – Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50

Subsection (a) applies to new stationary CI engines. Since the engine in this project is “new,” the fuel requirements in subsection (a) are applicable.

(1) CARB Diesel Fuel; or
(2) an alternative diesel fuel that is:
   (A) biodiesel;
   (B) a biodiesel blend that does not meet the definition of CARB Diesel Fuel;
   (C) a Fischer-Tropsch fuel; or
   (D) an emulsion of water in diesel fuel; or
(3) any alternative diesel fuel that is not identified in section (2) above and meets the requirements of the Verification Procedure; or
(4) an alternative fuel; or
(5) CARB Diesel Fuel used with fuel additives that meets the requirements of the Verification Procedure; or
(6) any combination of (1) through (5) above.

The following condition will ensure compliance with the fuel requirements of §93115.5(a):

- {modified 3395} Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII]

§93115.8 – Emission Standards for Stationary Diesel-Fueled CI Engines (>50 bhp) Used in Agricultural Operations

(a) Emission Standards for New Stationary Diesel-Fueled CI Engines (>50 bhp) Used in Agricultural Operations.

(1)(A) PM Standard
New agricultural stationary diesel-fueled CI engines, used in generator set applications with a maximum rated horsepower greater than 50, shall emit no more than 0.15 g/bhp-hr diesel PM, or shall meet the standards, as specified in the Off-Road Compression Ignition Engine Standards for off-road engines of the same maximum rated power (title 13, CCR, section 2423), in effect on the date of acquisition or submittal,1 as defined in section 93115.4, whichever is more stringent;

1 “Date of acquisition or submittal” means the date the application for the district permit or the application for engine registration was submitted to the District. Alternatively, upon District approval, the date of
The Off-Road Compression Ignition Engine Standards (title 13, CCR, section 2423) are given in the following table.

<table>
<thead>
<tr>
<th>Title 13, CCR, section 2423</th>
<th>Off Road Compression Ignition PM (g/bhp-hr) Emission Standards by Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 ≤ hp &lt; 75</td>
<td>0.22</td>
</tr>
<tr>
<td>75 ≤ hp &lt; 100</td>
<td>0.3</td>
</tr>
<tr>
<td>100 ≤ hp ≤ 175</td>
<td>0.22</td>
</tr>
<tr>
<td>175 ≤ hp ≤ 750</td>
<td>0.15</td>
</tr>
<tr>
<td>750 &lt; hp (gen sets only)</td>
<td>0.15</td>
</tr>
</tbody>
</table>

The ATC application for the 760 bhp engine in this project was submitted September 14, 2009; therefore, the more stringent emission standard between 0.15 g-PM/bhp-hr or the PM emission standard from Title 13, CCR, section 2423 (given in the table above) is 0.15 g-PM/bhp-hr. The CI engine in this project will meet the PM standard by having certified emissions of 0.06 g-PM/bhp-hr. The following permit condition will ensure compliance with the PM emission standards of this ATCM:

- (edited 3486) Emissions from this IC engine shall not exceed 0.06 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII]

(1)(B) NMHC, NOx, and CO Standards:
New agricultural stationary diesel-fueled CI engines shall meet the HC, NOx, (or NMHC+NOx, if applicable) and CO standards for off-road engines of the same model year and maximum rated power, as specified in the Off-Road

purchase as defined by the date shown on the front of the cashed check, the date of the financial transaction, or the date on the engine purchasing agreement, whichever is earliest.

2 "Model Year" means the stationary CI engine manufacturer's annual production period, which includes January 1st of a calendar year, or if the manufacturer has no annual production period, the calendar year.
Compression Ignition Engine Standards (title 13, CCR, section 2423). If no limits have been established for an off-road engine of the same model year and maximum rated power as the new agricultural stationary diesel-fueled CI engine, then the new agricultural stationary diesel-fueled CI engine shall meet the Tier 1 standards in title 13, CCR, section 2423, for an off-road engine of the same maximum rated power, irrespective of the new agricultural diesel-fueled CI engine's model year.

<table>
<thead>
<tr>
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<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>50 ≤ hp &lt; 75</td>
<td>3.5 / 3.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.5 / 3.7</td>
</tr>
<tr>
<td>75 ≤ hp &lt; 100</td>
<td>3.5 / 3.7</td>
<td>0.14 / 2.5 / 3.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.14 / 0.30 / 3.7</td>
</tr>
<tr>
<td>100 ≤ hp &lt; 175</td>
<td>3.0 / 3.7</td>
<td>0.14 / 2.5 / 3.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.14 / 0.30 / 3.7</td>
</tr>
<tr>
<td>175 ≤ hp ≤ 750</td>
<td>3.0 / 2.6</td>
<td></td>
<td></td>
<td>0.14 / 1.5 / 2.6</td>
<td></td>
<td></td>
<td></td>
<td>0.14 / 0.30 / 2.2</td>
</tr>
<tr>
<td>750 ≤ hp ≤ 1,200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.30 / 2.6 / 2.6</td>
<td></td>
<td></td>
<td>0.14 / 0.50 / 2.6</td>
</tr>
<tr>
<td>1,200 &lt; hp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.14 / 0.50 / 2.6</td>
</tr>
</tbody>
</table>

*Where only two numbers are given, the first number represents the combined NMHC + NOx emissions.

The model year 2007 CI engine in this project has a maximum rated brake horsepower of 760 bhp and is Tier 2 certified. It will meet the Off-Road Compression Ignition Engine Emission Standards (Title 13, CCR, Section 2423) by having certified emissions of 4.6 g-NOx/bhp-hr, 0.51 g-CO/bhp-hr, or 0.05 g-VOC/bhp-hr (See Appendix B). The following permit condition will ensure compliance with the PM emission standards of this ATCM:

- Emissions from this IC engine shall not exceed any of the following limits: 4.6 g-NOx/bhp-hr, 0.51 g-CO/bhp-hr, or 0.05 g-VOC/bhp-hr. [District Rule 2201, 17 CCR 93115, and 40 CFR Part 60 Subpart III]
(2) Prior to January 1, 2008, the requirements of section 93115.8(a)(1) shall not apply to any stationary diesel-fueled CI engine that:
(A) is used in agricultural operations; and
(B) was funded under a State or federal incentive funding program; and
(C) was sold for use in another agricultural operation, provided the stationary diesel-fueled CI engine complies with Tier II Off-Road Compression Ignition Standards for off-road engines of the same maximum rated power (title 13, CCR, section 2423).

The engine in this project meets all the emission standards required by §93115.8(a)(1); therefore, there is no need to evaluate whether the engine might be exempt from those standards.

(c) Registration Requirements for Greater than 50 bhp Stationary Diesel-Fueled CI Agricultural Engines

This ATC application fulfills the registration requirements listed under §93115.8 (c).

(d) Fee Requirements for Greater than 50 bhp Stationary Diesel-Fueled CI Agricultural Engine Owners or Operators

The applicant is required to pay fees assessed by the District associated with implementing and enforcing the requirements of §93115.8. The District’s existing fee rules in Regulation III will ensure compliance with this requirement.

§93115.10 – Recordkeeping, Reporting, and Monitoring Requirements

(a) Reporting Requirements for Owners or Operators of New and In-Use Stationary CI Engines, Including Non-Diesel-Fueled CI Engines, Having a Rated Horsepower Greater than 50 (> 50 bhp)

The engine in this project is used in an agricultural operation; therefore, per §93115.3(b) it is exempt from §93115.10(a).

(e) Monitoring Equipment.

(1) A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed upon engine installation, or by no later than January 1, 2005, on all engines subject to all or part of the requirements of sections 93115.6, 93115.7, or 93115.8(a) unless the District determines on a case-by-case basis that a non-resettable hour meter with a different minimum display capability is appropriate in consideration of the historical use of the engine and the owner or operator’s compliance history.

The following standard ATC condition will ensure compliance with § 93115.10(e):
• {modified 3403} This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart IIII]

• (g) Reporting Requirements for Emergency Standby Engines.
  (1) Starting January 1, 2005, each owner or operator of an emergency standby diesel-fueled CI engine shall keep records and prepare a monthly summary 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 to show compliance with sections 93115.6(a)(3) and 93115.6(b)(3);
  (D) initial start-up testing hours;
  (E) if applicable, hours of operation to comply with the requirements of NFPA 25;
  (F) hours of operation for all uses other than those specified in sections 93115.10(g)(1)(A) through (D) above; and
  (G) the fuel used.
    1. For engines operated exclusively on CARB Diesel Fuel, the owner or operator shall document the use of CARB Diesel Fuel through the retention of fuel purchase records indicating that the only fuel purchased for supply to an emergency standby engine was CARB Diesel Fuel; or
    2. For engines operated on any fuel other than CARB Diesel Fuel, fuel records demonstrating that the only fuel purchased and added to an emergency standby engine or engines, or to any fuel tank directly attached to an emergency standby engine or engines, meets the requirements of section 93115.5(b).
  (2) Records shall be retained for a minimum of 36 months. Records for the prior 24 months shall be retained on-site, either at a central location or at the engine's location, or at an offsite central location within California, and shall be made immediately available to the District staff upon request. Records for the prior 25 to 36 months shall be made available to District staff within 5 working days from request.

The following standard ATC conditions will ensure compliance with the recordkeeping requirements of §93115.10(g)(1) and (2):

• {modified 3496} 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, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. 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]
The operator shall document the use of CARB certified diesel fuel through the retention of fuel purchase records. [District Rule 4801 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]

§93115.13 – Compliance Demonstration.

(a) Upon approval by the District APCO, the following sources of data may be used in whole or part to demonstrate compliance with the emissions standards or requirements of sections 93115.6 through 93115.9:

i. off-road engine certification test data for the stationary diesel-fueled CI engine.
ii. engine manufacturer test data,
iii. emissions test data from a similar engine,
iv. emissions test data used in meeting the requirements of the Verification Procedure for the emission control strategy implemented, or
v. An alternative compliance demonstration as described in section 93115.13(f).

The applicant has submitted CARB certified emissions data for the CI engine in this project (see Appendix B); therefore, compliance has been demonstrated.

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.

The District performed an Engineering Evaluation (this document) for the proposed project and determined that the activity will occur at an existing facility and the project involves negligible changes compared to the existing use. Furthermore, the District
determined that the activity will not have a significant effect on the environment. The District finds that the activity is categorically exempt from the provisions of CEQA pursuant to CEQA Guideline § 15031 (Existing Facilities), and finds that the project is exempt per the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment (CEQA Guidelines §15061(b)(3)).

IX. Recommendation

Pending a successful NSR Public Noticing period, issue Authority to Construct C-7126-8-0 subject to the permit conditions on the attached draft Authority to Construct in Appendix A.

X. Billing Information

<table>
<thead>
<tr>
<th>Billing Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permit Number</td>
</tr>
<tr>
<td>C-7126-8-0</td>
</tr>
</tbody>
</table>

Appendixes

A. Draft ATC
B. BACT Guideline and BACT Analysis
C. Emissions Data
D. HRA Summary and AAQA
E. QNEC Calculations
F. SSPE1 Calculations
Appendix A
Draft ATC
San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: C-7126-8-0

LEGAL OWNER OR OPERATOR: YOKUM DAIRY
MAILING ADDRESS: 1804 S SHENANDOAH ST
VISALIA, CA 93277

LOCATION: 10234 LANSING AVE
HANFORD, CA

EQUIPMENT DESCRIPTION:
760 BHP DETROIT DIESEL MODEL 6063HK36 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

CONDITIONS

1. (98) No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. (14) Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
3. (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]
4. (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]
5. (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]
6. The operator shall document the use of CARB certified diesel fuel through the retention of fuel purchase records. [District Rule 4801 and CCR93115]
7. (3403) This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115]
8. Emissions from this IC engine shall not exceed any of the following limits: 4.60 g-NOx/bhp-hr, 0.51 g-CO/bhp-hr, or 0.05 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115]
9. Emissions from this IC engine shall not exceed 0.06 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]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (559) 230-5950 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

DAVID WARNER, Director of Permit Services
C-7126-8-0 - Nov 4 2000 2:05PM - MEDIANAS - Joint Inspection NOT Required
Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726 • (559) 230-5900 • Fax (559) 230-6061
10. (3405) This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]

11. (3478) During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]

12. (3809) 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. [District Rule 4702 and 17 CCR 93115]

13. (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]

14. (3808) This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702]

15. (3496) 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, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. 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]

16. (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]

17. (4002) This IC engine shall only be used for the growing and harvesting of crops or the raising of fowl or animals for the primary purpose of making a profit, providing a livelihood, or conducting agricultural research or instruction by an educational institution. [17 CCR 93115]
Appendix B
BACT Guideline and BACT Analysis
San Joaquin Valley
Unified Air Pollution Control District

Best Available Control Technology (BACT) Guideline 3.1.1
Last Update: 7/10/2009
Emergency Diesel IC Engine

<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>Latest EPA Tier Certification level for applicable horsepower range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NOX</td>
<td>Latest EPA Tier Certification level for applicable horsepower range</td>
<td>0.15 g/hp-hr or the Latest EPA Tier Certification level for applicable horsepower range, whichever is more stringent. (ATCM)</td>
<td></td>
</tr>
<tr>
<td>PM10</td>
<td>Very low sulfur diesel fuel (15 ppmw sulfur or less)</td>
<td>Latest EPA Tier Certification level for applicable horsepower range</td>
<td></td>
</tr>
<tr>
<td>SOX</td>
<td>Latest EPA Tier Certification level for applicable horsepower range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC</td>
<td>Latest EPA Tier Certification level for applicable horsepower range</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

1. BACT Analysis for NO\textsubscript{x} Emissions:
   
   a. Step 1 - Identify all control technologies

   The SJVUAPCD BACT Clearinghouse guideline 3.1.1 identifies achieved in practice BACT for NO\textsubscript{x} emissions from emergency diesel IC engines as follows:

   1) Latest EPA Tier Certification level for applicable horsepower range

   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 only one control option is listed in Step 1.

   d. Step 4 - Cost Effectiveness Analysis

   The applicant has proposed the only control option. Therefore, a cost effectiveness analysis is not required.

   e. Step 5 - Select BACT

   BACT for NO\textsubscript{x} emissions from this emergency standby diesel IC engine is the latest EPA Tier Certification level for the applicable horsepower range. The applicant has proposed to install a Tier 2 certified 760 bhp emergency standby diesel IC engine, which is the latest Tier Certification for an engine this size as shown in the attached Tier Certification table at the end of this Appendix; therefore BACT for NO\textsubscript{x} emissions is satisfied.
3. BACT Analysis for PM\textsubscript{10} Emissions:

a. Step 1 - Identify all control technologies

The SJVUAPCD BACT Clearinghouse guideline 3.1.1 identifies achieved in practice BACT for PM\textsubscript{10} emissions from emergency diesel IC engines as follows:

1) 0.15 g/hp-hr or the Latest EPA Tier Certification level for applicable horsepower range, whichever is more stringent. (ATCM)

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 only one control option is listed in Step 1.

d. Step 4 - Cost Effectiveness Analysis

The applicant has proposed the only control option. Therefore, a cost effectiveness analysis is not required.

e. Step 5 - Select BACT

BACT for PM\textsubscript{10} emissions from this emergency standby diesel IC engine is having PM\textsubscript{10} emissions of 0.15 g/hp-hr, or the latest EPA Tier Certification level for applicable horsepower range, whichever is more stringent. The applicant has proposed to install a Tier 2 certified 760 bhp emergency standby diesel IC engine, which is the latest Tier Certification for an engine this size as shown in the attached Tier Certification table at the end of this Appendix; therefore BACT for PM\textsubscript{10} emissions is satisfied.
<table>
<thead>
<tr>
<th>Power Rating (hp)</th>
<th>Tier</th>
<th>Model Year</th>
<th>NOₓ</th>
<th>HC</th>
<th>NMHC +NOₓ</th>
<th>CO</th>
<th>PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 ≤ hp &lt; 75</td>
<td>1</td>
<td>1998 - 2003</td>
<td>6.9</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2004 - 2007</td>
<td>-</td>
<td>-</td>
<td>5.6</td>
<td>3.7</td>
<td>0.3</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>2008 - 2011</td>
<td>-</td>
<td>-</td>
<td>3.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>4*</td>
<td>2008 - 2012</td>
<td></td>
<td></td>
<td>3.5</td>
<td>3.7</td>
<td>0.22</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Interim)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>75 ≤ hp &lt; 100</td>
<td>1</td>
<td>1998 - 2003</td>
<td>6.9</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2004 - 2007</td>
<td>-</td>
<td>-</td>
<td>5.6</td>
<td>3.7</td>
<td>0.3</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>2008 - 2011</td>
<td>-</td>
<td>-</td>
<td>3.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>100 ≤ hp &lt; 175</td>
<td>1</td>
<td>1997 - 2002</td>
<td>6.9</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2003 - 2006</td>
<td>-</td>
<td>-</td>
<td>4.9</td>
<td>3.7</td>
<td>0.22</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>2007 - 2011</td>
<td>-</td>
<td>-</td>
<td>3.0</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>175 ≤ hp &lt; 300</td>
<td>1</td>
<td>1996 - 2002</td>
<td>6.9</td>
<td>1.0</td>
<td>-</td>
<td>8.5</td>
<td>0.4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2003 - 2005</td>
<td>-</td>
<td>-</td>
<td>4.9</td>
<td>2.6</td>
<td>0.15</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>2006 - 2010</td>
<td>-</td>
<td>-</td>
<td>3.0</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>300 ≤ hp &lt; 600</td>
<td>1</td>
<td>1996 - 2000</td>
<td>6.9</td>
<td>1.0</td>
<td>-</td>
<td>8.5</td>
<td>0.4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2001 - 2005</td>
<td>-</td>
<td>-</td>
<td>4.8</td>
<td>2.6</td>
<td>0.15</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>2006 - 2010</td>
<td>-</td>
<td>-</td>
<td>3.0</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>600 ≤ hp ≤ 750</td>
<td>1</td>
<td>1996 - 2001</td>
<td>6.9</td>
<td>1.0</td>
<td>-</td>
<td>8.5</td>
<td>0.4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2002 - 2005</td>
<td>-</td>
<td>-</td>
<td>4.8</td>
<td>2.6</td>
<td>0.15</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>2006 - 2010</td>
<td>-</td>
<td>-</td>
<td>3.0</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>&gt; 750</td>
<td>1</td>
<td>2000 - 2005</td>
<td>6.9</td>
<td>1.0</td>
<td>-</td>
<td>8.5</td>
<td>0.4</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2006 - 2010</td>
<td>-</td>
<td>-</td>
<td>4.8</td>
<td>2.6</td>
<td>0.15</td>
</tr>
</tbody>
</table>

* Manufacturers may optionally certify engine families to the interim Tier 4 for this power category through 2012.
Appendix C
Emissions Data Sheet
The user is advised to check the MTU Detroit Diesel Extranet for the latest information.
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Appendix D
HRA Summary and AAQA
## A. RMR SUMMARY

<table>
<thead>
<tr>
<th>Categories</th>
<th>Emergency Diesel ICE (Unit 8-0)</th>
<th>Project Totals</th>
<th>Facility Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prioritization Score</td>
<td>N/A(^1)</td>
<td>N/A(^1)</td>
<td>0.98</td>
</tr>
<tr>
<td>Acute Hazard Index</td>
<td>N/A(^2)</td>
<td>N/A(^2)</td>
<td>N/A(^2)</td>
</tr>
<tr>
<td>Chronic Hazard Index</td>
<td>N/A(^3)</td>
<td>N/A(^3)</td>
<td>N/A(^3)</td>
</tr>
<tr>
<td>Maximum Individual Cancer Risk</td>
<td>6.6 E-7</td>
<td>6.6 E-7</td>
<td>6.6 E-7</td>
</tr>
<tr>
<td>T-BACT Required?</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Permit Conditions?</td>
<td>Yes</td>
<td></td>
<td></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 prioritization scores 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 it has been determined to be insignificant for these types of units.

### Proposed Permit Conditions

To ensure that human health risks will not exceed District allowable levels; the following permit conditions must be included for:

#### Unit #8-0

1. **Modified (1901)** The PM10 emissions rate shall not exceed 0.06 g/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201]
2. **(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] N
4. **Modified (1344)** The engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year. [District NSR Rule and District Rule 4701] N
B. RMR REPORT

I. Project Description

Technical Services received a request on February 9, 2007, to perform an Ambient Air Quality Analysis and a Risk Management Review for an emergency diesel IC engine driving an electrical generator.

II. Analysis

Technical Services performed a screening level health risk assessment using the District's Diesel Exhaust Risk Screening spreadsheet.

The following parameters were used for the review:

<table>
<thead>
<tr>
<th>Analysis Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit #</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>8-0</td>
</tr>
</tbody>
</table>

Technical Services also performed modeling for criteria pollutants CO, NO$_x$, SO$_x$, and PM$_{10}$, as well as the RMR. The emission rates used for criteria pollutant modeling were 0.85 lb/hr CO, 7.7 lb/hr NO$_x$, 0 lb/hr SO$_x$, and 0.2 lb/hr PM$_{10}$. The engineer supplied the maximum fuel rate for the IC engine used during the analysis.

The results from the Criteria Pollutant Modeling are as follows:

Criteria Pollutant Modeling Results*
Values are in µg/m$^3$

<table>
<thead>
<tr>
<th>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>Pass</td>
<td>X</td>
<td>Pass</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>NO$_x$</td>
<td>Pass</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Pass</td>
</tr>
<tr>
<td>SO$_x$</td>
<td>Pass</td>
<td>Pass</td>
<td>X</td>
<td>Pass</td>
<td>Pass</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Pass$^1$</td>
<td>Pass$^1$</td>
</tr>
</tbody>
</table>

*Results were taken from the attached PSD spreadsheets.

The cancer risk associated with the operation of the proposed emergency diesel IC engine is 6.6E-07, which is less than the 1 in a million threshold. In accordance with the District's Risk Management Policy, the project is approved without Toxic Best Available Control Technology (T-BACT).

III. Conclusion

The criteria modeling runs indicate the emissions from the proposed equipment will not cause or significantly contribute to a violation of a State or National AAQS.

The cancer risk associated with the operation of the proposed emergency diesel IC engine is 6.6E-07, which is less than the 1 in a million threshold. In accordance with the District's Risk Management Policy, the project is approved without Toxic Best Available Control Technology (T-BACT).

To ensure that human health risks will not exceed District allowable levels; the permit conditions listed on Page 1 of this report must be included for the 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.
Appendix E
QNEC Calculations
Quarterly Net Emissions Change (QNEC)

The Quarterly Net Emissions Change is used to complete the emission profile screen for the District's PAS database. The QNEC shall be calculated as follows:

\[
\text{QNEC} = \text{PE2} - \text{PE1},
\]

where:

- \( \text{QNEC} \) = Quarterly Net Emissions Change for each emissions unit, lb/qtr
- \( \text{PE2} \) = Post-Project Potential to Emit for each emissions unit, lb/qtr
- \( \text{PE1} \) = Pre-Project Potential to Emit for each emissions unit, lb/qtr

Since this is a new unit, \( \text{PE1} = 0 \) for all pollutants. Thus, \( \text{QNEC} = \text{PE2} \) (lb/qtr).

Using the \( \text{PE2} \) (lb/yr) values calculated in Section VII.C.2, Quarterly PE2 is calculated as follows:

\[
\text{PE2}_{\text{quarterly}} = \frac{\text{PE2} \text{ (lb/yr)}}{4 \text{ quarters/year}} = \text{QNEC}
\]

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PE2 Total (lb/yr)</th>
<th>Quarterly PE2 (lb/qtr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO\textsubscript{x}</td>
<td>589</td>
<td>147.3</td>
</tr>
<tr>
<td>SO\textsubscript{x}</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>PM\textsubscript{10}</td>
<td>34</td>
<td>8.5</td>
</tr>
<tr>
<td>CO</td>
<td>725</td>
<td>181.3</td>
</tr>
<tr>
<td>VOC</td>
<td>85</td>
<td>21.3</td>
</tr>
</tbody>
</table>
Appendix F
SSPE1 Calculations
<table>
<thead>
<tr>
<th>Permit Unit</th>
<th>NO&lt;sub&gt;x&lt;/sub&gt;</th>
<th>SO&lt;sub&gt;x&lt;/sub&gt;</th>
<th>PM&lt;sub&gt;10&lt;/sub&gt;</th>
<th>CO</th>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-7126-2-1 Cow Housing*</td>
<td>0</td>
<td>0</td>
<td>18,533</td>
<td>0</td>
<td>42,325</td>
</tr>
<tr>
<td>C-7126-3-1 Liquid Manure*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>11,021</td>
</tr>
<tr>
<td>C-7126-4-1 Solid Manure*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>C-7126-5-1 Milk Parlor*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1,709</td>
</tr>
<tr>
<td>C-7126-6-1 Feed Storage*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>C-7126-7-0 ICE</td>
<td>25,795</td>
<td>13</td>
<td>1,225</td>
<td>7,841</td>
<td>2,940</td>
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<tr>
<td>Stationary Source Potential to Emit</td>
<td>25,795</td>
<td>13</td>
<td>19,758</td>
<td>7,841</td>
<td>57,995</td>
</tr>
</tbody>
</table>

*Emissions taken from project C-1060669.