NOV 14 2017

Timothy Alburger  
Seneca Resources  
4800 Corporate Ct.,  
Bakersfield, CA 93311

Re: Notice of Preliminary Decision - Authority to Construct  
Facility Number: S-1242  
Project Number: S-1173284

Dear Mr. Alburger:

Enclosed for your review and comment is the District's analysis of Seneca Resources's application for an Authority to Construct for the installation of a diesel-fired emergency IC engine, at the Belridge Gas Plant.

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 and 45-day EPA notice comment periods, 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 Ms. Silvana Procopio of Permit Services at (661) 392-5606.

Sincerely,

Arnaud Marjollet  
Director of Permit Services

AM:SP

Enclosures

cc: Tung Le, CARB (w/ enclosure) via email  
cc: Gerardo C. Rios, EPA (w/ enclosure) via email
I. Proposal

Seneca Resources is proposing to install a 145 bhp (intermittent) diesel-fired emergency standby internal combustion (IC) engine powering an air compressor.

II. Applicable Rules

Rule 2201 New and Modified Stationary Source Review Rule (2/18/16)
Rule 2410 Prevention of Significant Deterioration (6/16/11)
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 Internal Combustion Engines - Phase 1 (8/21/03)
Rule 4702 Internal Combustion Engines (11/14/13)
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
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 equipment will be located at the Belridge Gas Plant, within the SW/4 of Section 19, Township 28S, Range 21E.

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 air compressor. Other than emergency standby operation, the engine may be operated up to 50 hours per year for maintenance and testing purposes.

V. Equipment Listing

S-1242-20-0: 145 BHP (INTERMITTENT) CUMMINS MODEL QSB4.5L TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN AIR COMPRESSOR

VI. Emission Control Technology Evaluation

The applicant has proposed to install a Tier 3 certified diesel-fired IC engine that is fired on very low-sulfur diesel fuel.

The proposed engine meets the latest Tier Certification requirements for emergency standby engines; therefore, the engine 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 ARB/EPA executive order).

The use of CARB certified diesel fuel (0.0015% by weight sulfur maximum) reduces SOx emissions by over 99% from standard diesel fuel.

VII. General Calculations

A. Assumptions

- Emergency operating schedule: 24 hours/day
- Non-emergency operating schedule: 50 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$_{10}$ fraction of diesel exhaust: 0.96 (CARB, 1988)
Conversion factor: 1.34 bhp/kw

B. Emission Factors

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Factor (g/bhp-hr)</th>
<th>Emission Factor (g/kw-hr)</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO$_x$</td>
<td>2.60</td>
<td>3.53</td>
<td>Engine Manufacturer</td>
</tr>
<tr>
<td>SO$_x$</td>
<td>0.0051</td>
<td>0.0068</td>
<td>Mass Balance Equation Below</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>0.10</td>
<td>0.15</td>
<td>ARB/EPA Certification</td>
</tr>
<tr>
<td>CO</td>
<td>0.70</td>
<td>0.9</td>
<td>ARB/EPA Certification</td>
</tr>
<tr>
<td>VOC</td>
<td>0.20</td>
<td>0.27</td>
<td>Engine Manufacturer</td>
</tr>
</tbody>
</table>

\[
\frac{0.000015 \text{ lb} - S}{\text{ lb} - \text{ fuel}} \times \frac{7.1 \text{ lb} - \text{ fuel}}{\text{ gallon}} \times \frac{2 \text{ lb} - \text{ SO}_x}{1 \text{ gal}} \times \frac{1 \text{ bhp input}}{1 \text{ kw input}} \times \frac{137,000 \text{ Btu}}{2,542.5 \text{ Btu}} \times \frac{453.6 \text{ g}}{1 \text{ lb}} = 0.0051 \frac{g - \text{ SO}_x}{\text{ bhp - hr}}
\]

C. Calculations

1. Pre-Project Potential to Emit (PE1)

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

2. Post-Project Potential to Emit (PE2)

The daily and annual PE2 are calculated as follows:

Daily PE2 (lb-pollutant/day) = EF (g-pollutant/bhp-hr) x rating (bhp) x operation (hr/day) / 453.6 g/lb

Annual PE2 (lb-pollutant/yr) = EF (g-pollutant/bhp-hr) x rating (bhp) x operation (hr/yr) / 453.6 g/lb
<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/year)</th>
<th>Daily PE2 (lb/day)</th>
<th>Annual PE2 (lb/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>2.60</td>
<td>145</td>
<td>24</td>
<td>50</td>
<td>19.9</td>
<td>42</td>
</tr>
<tr>
<td>SOx</td>
<td>0.0051</td>
<td>145</td>
<td>24</td>
<td>50</td>
<td>0.0</td>
<td>0</td>
</tr>
<tr>
<td>PM_{10}</td>
<td>0.10</td>
<td>145</td>
<td>24</td>
<td>50</td>
<td>0.8</td>
<td>2</td>
</tr>
<tr>
<td>CO</td>
<td>0.70</td>
<td>145</td>
<td>24</td>
<td>50</td>
<td>5.4</td>
<td>11</td>
</tr>
<tr>
<td>VOC</td>
<td>0.20</td>
<td>145</td>
<td>24</td>
<td>50</td>
<td>1.5</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Pre-Project Stationary Source Potential to Emit (SSPE1)

Pursuant to District Rule 2201, the SSPE1 is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATCs) or Permits to Operate (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 (AER) 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.

| SSPE1 (lb/year) |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| NOx             | SOx             | PM_{10}         | CO              | VOC             |
| 17,171          | 1,028           | 4,080           | 129,658         | 23,571          |

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

Pursuant to District Rule 2201, the Post-Project Stationary Source Potential to Emit (SSPE2) is the 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 ERCs which have been banked since September 19, 1991 for AER 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. Thus:

<table>
<thead>
<tr>
<th>SSPE2 (lb/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permit Unit</td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td>SSPE1</td>
</tr>
<tr>
<td>S-1242-20-0</td>
</tr>
<tr>
<td>SSPE2</td>
</tr>
</tbody>
</table>

5. Major Source Determination

**Rule 2201 Major Source Determination:**

Pursuant to District Rule 2201, a Major Source is a stationary source with a SSPE2 equal to or exceeding one or more of the following threshold values. For the purposes of determining major source status the following shall not be included:

- any ERCS associated with the stationary source
- Emissions from non-road IC engines (i.e. IC engines at a particular site at the facility for less than 12 months)
- Fugitive emissions, except for the specific source categories specified in 40 CFR 51.165

<table>
<thead>
<tr>
<th>Rule 2201 Major Source Determination (lb/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO&lt;sub&gt;x&lt;/sub&gt;</td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td>SSPE1</td>
</tr>
<tr>
<td>SSPE2</td>
</tr>
<tr>
<td>Major Source Threshold</td>
</tr>
<tr>
<td>Major Source?</td>
</tr>
</tbody>
</table>

As seen in the table above, the facility is an existing Major Source for VOCs.
**Rule 2410 Major Source Determination:**

The facility or the equipment evaluated under this project is not listed as one of the categories specified in 40 CFR 52.21 (b)(1)(iii). Therefore the PSD Major Source threshold is 250 tpy for any regulated NSR pollutant.

<table>
<thead>
<tr>
<th>PSD Major Source Determination (tons/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO&lt;sub&gt;2&lt;/sub&gt;</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>Estimated Facility PE before Project Increase</td>
</tr>
<tr>
<td>PSD Major Source Thresholds</td>
</tr>
<tr>
<td>PSD Major Source ? (Y/N)</td>
</tr>
</tbody>
</table>

As shown above, the facility is not an existing PSD major source for any regulated NSR pollutant expected to be emitted at this facility.

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 District Rule 2201

Since this is a new emissions unit, BE = PE<sub>1</sub> = 0 for all 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."

Since this source is not included in the 28 specific source categories specified in 40 CFR 51.165, the increases in fugitive emissions are not included in the SB 288 Major Modification calculation.

Since this facility is a major source for VOCs, the project’s PE2 is compared to the SB 288 Major Modification Thresholds in the following table in order to determine if the SB 288 Major Modification calculation is required.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Project PE2 (lb/year)</th>
<th>Threshold (lb/year)</th>
<th>SB 288 Major Modification Calculation Required?</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC</td>
<td>3</td>
<td>50,000</td>
<td>No</td>
</tr>
</tbody>
</table>

Since none of the SB 288 Major Modification Thresholds are surpassed with this project, this project does not constitute an SB 288 Major Modification.

8. Federal Major Modification

District Rule 2201 states that a Federal Major Modification is the same as a “Major Modification” as defined in 40 CFR 51.165 and part D of Title I of the CAA.

Since this source is not included in the 28 specific source categories specified in 40 CFR 51.165, the increases in fugitive emissions are not included in the Federal Major Modification determination.

The determination of Federal Major Modification is based on a two-step test. For the first step, only the emission increases are counted. Emission decreases may not cancel out the increases for this determination.

**Step 1**

For new emissions units, the increase in emissions is equal to the PE2 for each new unit included in this project.

The project’s combined total emission increases are listed below and compared to the Federal Major Modification Thresholds in the following table.
### Federal Major Modification Thresholds for Emission Increases

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Total Emissions Increases (lb/yr)</th>
<th>Thresholds (lb/yr)</th>
<th>Federal Major Modification?</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC*</td>
<td>3</td>
<td>0</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*If there is any emission increases in NOx or VOC, this project is a Federal Major Modification and no further analysis is required.

Since there is an increase in VOC emissions, this project constitutes a Federal Major Modification. Federal Offset quantities are calculated below.

#### Federal Offset Quantities:

The Federal offset quantity is only calculated only for the pollutants for which the project is a Federal Major Modification. The Federal offset quantity is the sum of the annual emission changes for all new and modified emission units in a project calculated as the potential to emit after the modification (PE2) minus the actual emissions (AE) during the baseline period for each emission unit times the applicable federal offset ratio. There are no special calculations performed for units covered by an SLC.

<table>
<thead>
<tr>
<th>VOC</th>
<th>Federal Offset Ratio</th>
<th>1.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-1242-20-0</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

9. Rule 2410 - Prevention of Significant Deterioration (PSD) Applicability Determination

The project potential to emit, by itself, will not exceed any PSD major source thresholds. Therefore Rule 2410 is not applicable and no further discussion is required.
10. 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. Unless specifically exempted by Rule 2201, BACT shall be required for the following actions*:

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 AIME exceeding two pounds per day, and/or
d. Any new or modified emissions unit, in a stationary source project, which results in an SB 288 Major Modification or a Federal Major Modification, as defined by the rule.

*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

As seen in Section VII.C.2 above, the applicant is proposing to install a new diesel-fired IC engine with a PE greater than 2 lb/day for NOx, and CO. BACT is triggered for NOx, only since the PE is greater than 2 lb/day. However 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.5 above.
b. Relocation of emissions units – PE > 2 lb/day

As discussed in Section I above, there are no emissions units being relocated from one stationary source to another; therefore BACT is not triggered.

c. Modification of emissions units – AlPE > 2 lb/day

As discussed in Section I above, there are no modified emissions units associated with this project. Therefore BACT is not triggered.

d. SB 288/Federal Major Modification

As discussed above, this project does not constitute an SB 288 Major Modification for any pollutant. Therefore BACT is not triggered for any pollutant.

As discussed above, this project does constitute a Federal Major Modification for VOC emissions. Therefore BACT is triggered for VOC for all emissions units in the project for which there is an emission increase.

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:

- NOx: Latest Available Tier Certification level for applicable horsepower*
- VOC: Latest Available Tier Certification level for applicable horsepower*
*Note: The certification requirements for emergency engines are as follows:
50 ≤ bhp < 75 – Tier 4I; 75 ≤ bhp < 750 – Tier 3; ≥ 750 bhp – Tier 2.

The facility has proposed to install a 145 bhp Tier 3 certified IC engine (with a PM$_{10}$ emissions rate of 0.10 g/bhp-hr), and using very low sulfur diesel fuel. Therefore, BACT is satisfied for NOx.

B. Offsets

1. Offset Applicability

Pursuant to Section 4.6.2 of this rule, offsets are not required for emergency IC engines. The engine in this project is an emergency IC engine; therefore, this exemption is applicable to this project.

However, even when there is an applicable exemption, the SSPE2 values are compared to the offset threshold to determine if offsets are triggered. In its PAS database, the District keeps track of facilities where offsets are triggered but an exemption applies. The SSPE2 values are compared to the offset trigger thresholds in the following table:

<table>
<thead>
<tr>
<th>Offset Determination (lb/year)</th>
<th>NOx</th>
<th>SOx</th>
<th>PM$_{10}$</th>
<th>CO</th>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSPE2</td>
<td>17,213</td>
<td>1,028</td>
<td>4,082</td>
<td>129,669</td>
<td>23,574</td>
</tr>
<tr>
<td>Offset Thresholds</td>
<td>20,000</td>
<td>54,750</td>
<td>29,200</td>
<td>200,000</td>
<td>20,000</td>
</tr>
<tr>
<td>Offsets Triggered?</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

2. Quantity of Offsets Required

As shown in the table above, offsets are triggered for VOC emissions since the VOC SSPE2 exceeds the offset trigger threshold; however, as previously discussed, the offset exemption from Section 4.6.2 of District Rule 2201 is applicable to this project; therefore, offset calculations are not necessary and offsets are not required.

C. Public Notification

1. Applicability

Public noticing is required for:

a. **New Major Sources, SB288 Major Modifications, and Federal Major Modifications**
As shown in Sections VII.C.5, VII.C.7, and VII.C.8, this facility is not a new Major Source, is not an SB 288 Major Modification; however, it is a Federal Major Modification. Public noticing is required.

b. Any new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any pollutant

As calculated in Section VII.C.2, daily emissions for all pollutants are less than 100 lb/day.

c. Any project which results in the offset thresholds being surpassed

The SSPE1 and SSPE2 are compared to the offset thresholds in the following table.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>SSPE1 (lb/year)</th>
<th>SSPE2 (lb/year)</th>
<th>Offset Threshold</th>
<th>Public Notice Required?</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>17,171</td>
<td>17,213</td>
<td>20,000 lb/year</td>
<td>No</td>
</tr>
<tr>
<td>SOx</td>
<td>1,028</td>
<td>1,028</td>
<td>54,750 lb/year</td>
<td>No</td>
</tr>
<tr>
<td>PM10</td>
<td>4,080</td>
<td>4,082</td>
<td>29,200 lb/year</td>
<td>No</td>
</tr>
<tr>
<td>CO</td>
<td>129,658</td>
<td>129,669</td>
<td>200,000 lb/year</td>
<td>No</td>
</tr>
<tr>
<td>VOC</td>
<td>23,571</td>
<td>23,574</td>
<td>20,000 lb/year</td>
<td>No</td>
</tr>
</tbody>
</table>

As detailed above, there were no thresholds surpassed with this project; therefore public noticing is not required for offset purposes.

d. Any project with a Stationary Source Project Increase in Permitted Emissions (SSIPE) greater than 20,000 lb/year for any pollutant

For this project, the proposed engine is the only emissions unit that will generate an increase in Potential to Emit. Since the proposed engine emissions are well below 20,000 lb/year for all pollutants (See Section VII.C.2), the SSIPE for this project will be below the public notice threshold.

e. Any project which results in a Title V significant permit modification

Since this facility does not have a Title V operating permit, this change is not a Title V significant Modification, and therefore public noticing is not required.
2. Public Notice Action

As demonstrated above, this project will require public noticing for Federal Major Modification.

D. Daily Emissions Limits

Daily Emissions Limitations (DELs) and other enforceable conditions are required by Rule 2201 to restrict a unit’s maximum daily emissions, to a level at or below the emissions associated with the maximum design capacity. 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 as a mechanism to ensure compliance:

- {4771} Emissions from this IC engine shall not exceed any of the following limits: 2.60 g-NOx/bhp-hr, 0.70 g-CO/bhp-hr, or 0.20 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93115]

- {4772} Emissions from this IC engine shall not exceed 0.10 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]

- {4258} 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 standby IC engines to demonstrate compliance with District Rule 2201.

2. Monitoring

No monitoring is required to demonstrate compliance with District 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 District Rule 2201.

Rule 2410 Prevention of Significant Deterioration

As shown in Section VII.C.9 above, this project does not result in a new PSD major source or PSD major modification. No further discussion is required.

Rule 2520 Federally Mandated Operating Permits

Since this facility’s emissions exceed the major source thresholds of District Rule 2201, this facility is a major source. However, this facility has elected to comply with Rule 2530, exempts it from the requirements of Rule 2520.

Rule 2530 Federally Enforceable Potential to Emit

The purpose of this rule is to restrict the emissions of a stationary source so that the source may elect to be exempt from the requirements of Rule 2520. Pursuant to Rule 2530, since this facility has elected exemption from the requirements of Rule 2520 by ensuring actual emissions from the stationary source in every 12-month periods to not exceed the following: ½ the major source thresholds for NOx, VOCs, CO, and PM$_{10}$; 50 tons per year SO2; 5 tons per year of a single HAP; 12.5 tons per year of any combination of HAPs; 50 percent of any lesser threshold for a single HAP as the EPA may establish by rule; and 50 percent of the major source threshold for any other regulated air pollutant not listed in Rule 2530.

Rule 4001 New Source Performance Standards (NSPS)

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

The District has not been delegated the authority to implement Subpart III requirements for non-Major Sources; therefore, no requirements shall be included on the permit.
Rule 4002 National Emission Standards for Hazardous Air Pollutants


The District has not been delegated the authority to implement NESHAP regulations for Area Source requirements for non-Major Sources; therefore, no requirements shall be included on the permit.

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 as a mechanism 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 as a mechanism 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 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.

An HRA is not required for a project with a total facility prioritization score of less than one. According to the Technical Services Memo for this project (Appendix D), the total facility prioritization score including this project was greater than one. Therefore, an
HRA was required to determine the short-term acute and long-term chronic exposure from this project.

<table>
<thead>
<tr>
<th>Categories</th>
<th>Emergency IC Engine (Unit S-1242-20-0)</th>
<th>Project Totals</th>
<th>Facility Totals</th>
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<tbody>
<tr>
<td>Prioritization Score</td>
<td>N/A&lt;sup&gt;1&lt;/sup&gt;</td>
<td>N/A&lt;sup&gt;1&lt;/sup&gt;</td>
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<tr>
<td>Acute Hazard Index</td>
<td>N/A&lt;sup&gt;2&lt;/sup&gt;</td>
<td>N/A&lt;sup&gt;2&lt;/sup&gt;</td>
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<tr>
<td>Chronic Hazard Index</td>
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<td>0.00</td>
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<td>Maximum Individual Cancer Risk</td>
<td>1.87E-08</td>
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</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>
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</table>

<sup>1</sup>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.

<sup>2</sup>Acute Hazard Index was not calculated since there is no risk factor or the risk factor is so low that it has been determined to be insignificant for this type of unit.

**Discussion of T-BACT**

BACT for toxic emission control (T-BACT) is required if the cancer risk exceeds one in one million. As demonstrated above, T-BACT is not required for this project because the HRA indicates that the risk is not above the District's thresholds for triggering T-BACT requirements; 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 Technical Services Memo in Appendix D of this report, the emissions increases for this project were determined to be less than significant.

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

- The exhaust stack shall vent 30 degrees from vertical upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction.[District Rule 4102]

- \{4772\} Emissions from this IC engine shall not exceed 0.10 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]
• {4920} 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 50 hours per calendar year. [District Rules 2201, 4102, and 4702, and 17 CCR 93115]

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.

\[
0.1 \frac{\text{grain}-\text{PM}}{\text{dscf}} \times \frac{g}{15.43 \text{grain}} \times \frac{1 \text{ Btu in}}{0.35 \text{ Btu out}} \times \frac{9,051 \text{ dscf}}{10^6 \text{ Btu}} \times \frac{2,542.5 \text{ Btu}}{1 \text{ bhp - hr}} \times \frac{0.96 \text{ g - PM}_{10}}{1 \text{ g - PM}} = 0.4 \frac{\text{g - PM}_{10}}{\text{bhp - hr}}
\]

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 as a mechanism to ensure compliance:

• {14} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]

Rule 4701 Internal Combustion Engines - Phase 1

The purpose of this rule is to limit the emissions of nitrogen oxides (NO\(_x\)), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines. Except as provided in Section 4.0, the provisions of this rule apply to any internal combustion engine, rated greater than 50 bhp, that requires a PTO.

The proposed engine is also subject to District Rule 4702, Internal Combustion Engines. Since emissions limits of District Rule 4702 and all other requirements are equivalent or more stringent than District Rule 4701 requirements for emergency engines, compliance with District Rule 4702 requirements will satisfy requirements of District Rule 4701.

Rule 4702 Internal Combustion Engines

Emergency standby engines are subject to District Rule 4702 requirements. Emergency standby engines are defined in Section 3.0 of District Rule 4702 as follows:
3.15 Emergency Standby Engine: an internal combustion engine which operates as a temporary replacement for primary mechanical or electrical power during an unscheduled outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the operator. An engine shall be considered to be an emergency standby engine if it is used only for the following purposes: (1) periodic maintenance, periodic readiness testing, or readiness testing during and after repair work; (2) unscheduled outages, or to supply power while maintenance is performed or repairs are made to the primary power supply; and (3) if it is limited to operate 100 hours or less per calendar year for non-emergency purposes. An engine shall not be considered to be an emergency standby engine if it is used: (1) to reduce the demand for electrical power when normal electrical power line service has not failed, or (2) to produce power for the utility electrical distribution system, or (3) in conjunction with a voluntary utility demand reduction program or interruptible power contract.

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. The following conditions will be included on the permit:

- {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]

- {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 and 17 CCR 93115]

The 100 hour requirement is less stringent than the Air Toxic Control Measure operating limitations for emergency standby engines. Therefore, compliance with the applicable Air Toxic Control Measure requirements ensures compliance with the 100 hour requirement.

Operation of emergency standby engines are limited to 100 hours or less per calendar year for non-emergency purposes. The Air Toxic Control Measure for Stationary Compression Ignition Engines (Stationary ATCM) limits this engine's maintenance and testing to 50 hours/year; therefore, compliance is expected. The following conditions will be included on the permit:

- {4920} 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 50 hours per calendar year. [District Rules 2201, 4102, and 4702, and 17 CCR 93115]

The following exemption in Section 4.2 of District Rule 4702 applies to emergency standby engines:

4.2 Except for the requirements of Section 5.9 and Section 6.2.3, the requirements of this rule shall not apply to:
4.2.1 An emergency standby engine as defined in Section 3.0 of this rule, and provided that it is operated with a nonresettable elapsed operating time meter. In lieu of a nonresettable time meter, the owner of an emergency 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.

Pursuant to the exemption in Section 4.2, the following requirements of Section 5.9 are applicable to emergency standby engines

Section 5.9 requires the owner to:

5.9.2 Properly operate and maintain each engine as recommended by the engine manufacturer or emission control system supplier.

5.9.3 Monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier.

5.9.4 Install and operate 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 and is allowed by Permit-to-Operate or Permit-Exempt Equipment Registration condition. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer’s instructions.

Properly operate and maintain each engine as recommended by the engine manufacturer or emission control system supplier. The following condition will be included on the permit:

- {4261} 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]
Monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier. The following condition will be included on the permit:

- (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 emission 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]

Install and operate a nonresettable elapsed time meter. In lieu of installing a nonresettable elapsed time meter, the operator may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO and EPA and is allowed by Permit-to-Operate condition. The operator shall properly maintain and operate the nonresettable elapsed time meter or alternative device in accordance with the manufacturer's instructions. The following condition will be included on the permit:

- (4749) This engine shall be equipped with a non-resettable hour meter with a minimum display capability of 9,999 hours, unless the District determines 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. [District Rule 4702 and 17 CCR 93115]

The exemption in Rule 4702 Section 4.2 for emergency standby engines requires the engines to comply with Section 6.2.3, shown below.

6.2.3 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 provided to the APCO upon request. The records shall include, but are not limited to, the following:

6.2.3.1 Total hours of operation,
6.2.3.2 The type of fuel used,
6.2.3.3 The purpose for operating the engine,
6.2.3.4 For emergency standby engines, all hours of non-emergency and emergency operation shall be reported, and
6.2.3.5 Other support documentation necessary to demonstrate claim to the exemption.

Records of the total hours of operation, type of fuel used, purpose for operating the engine, all hours of non-emergency and emergency operation, and other support documentation must be maintained. All records shall be retained for a period of at least
five years, shall be readily available, and be made available to the APCO upon request. The following conditions will be included on the permit:

- (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]

- (4263) The permittee shall maintain monthly records of the type of fuel purchased. [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]

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:

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

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

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

\[R \text{ (universal gas constant)} = \frac{10.73 \, \text{psi } \cdot \text{ft}^3}{\text{lb } \cdot \text{mol } \cdot ^\circ\text{R}}\]

\[
\frac{0.000015 \, \text{lb } \cdot \text{SO}_2}{\text{gal}} \times \frac{7.1 \, \text{lb}}{\text{gal}} \times \frac{64 \, \text{lb } \cdot \text{SO}_2}{1 \, \text{MMBtu}} \times \frac{1 \, \text{gal}}{9,051 \, \text{scf}} \times \frac{10.73 \, \text{psi } \cdot \text{ft}^3}{\text{lb } \cdot \text{mol } \cdot ^\circ\text{R}} \times \frac{520\, ^\circ\text{R}}{14.7 \, \text{psi}} \times 1,000,000 = 1.0 \, \text{ppmv}
\]

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

- (4258) 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 engine 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

The following requirements apply to new engines (those installed after 1/1/05):

<table>
<thead>
<tr>
<th>Title 17 CCR Section 93115 Requirements for New Emergency IC Engines</th>
<th>Proposed Method of Compliance with Title 17 CCR Section 93115 Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency engine(s) must be fired on CARB diesel fuel, or an approved alternative diesel fuel.</td>
<td>The applicant has proposed the use of CARB certified diesel fuel. The proposed permit condition, requiring the use of CARB certified diesel fuel, is included on the permit.</td>
</tr>
<tr>
<td></td>
<td>• {4258} 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]</td>
</tr>
<tr>
<td>The engine(s) must meet the emission standards in Table 1 of the ATCM for the specific power rating and model year of the proposed engine.</td>
<td>The applicant has proposed the use of an engine that is certified to the latest EPA Tier Certification standards for the applicable horsepower range, guaranteeing compliance with the emission standards of the ATCM. Additionally, the proposed diesel PM emissions rate is less than or equal to 0.15 g/bhp-hr.</td>
</tr>
<tr>
<td>The engine may not be operated more than 50 hours per year for maintenance and testing purposes unless the PM emissions are ≤ 0.01 g/bhp-hr, then the engine is allowed 100 hours per year. Emissions from this engine are certified at 0.10 g/bhp-hr, therefore the engine is allowed 50 hours.</td>
<td>The following conditions will be included on the permit:</td>
</tr>
<tr>
<td></td>
<td>• {4772} Emissions from this IC engine shall not exceed 0.10 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]</td>
</tr>
<tr>
<td></td>
<td>• {4920} 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 50 hours per calendar year. [District Rules 2201, 4102, and 4702, and 17 CCR 93115]</td>
</tr>
<tr>
<td>Engines, with a PM10 emissions rate greater than 0.01 g/bhp-hr and located at</td>
<td>The District has verified that this engine is not located within 500' of a school.</td>
</tr>
</tbody>
</table>
schools, may not be operated for maintenance and testing whenever there is a school sponsored activity on the grounds. Additionally, engines located within 500 feet of school grounds may not be operated for maintenance and testing between 7:30 AM and 3:30 PM.

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 condition will be included on the permit:

- {4749} This engine shall be equipped with a non-resettable hour meter with a minimum display capability of 9,999 hours, unless the District determines 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. [District Rule 4702 and 17 CCR 93115]

An owner or operator shall maintain monthly records of the following: emergency use hours of operation; maintenance and testing hours of operation; hours of operation for emission testing; initial start-up testing hours; hours of operation for all other uses; and the type of fuel used. All records shall be retained for a minimum of 36 months.

The following condition will be included on the permit:

- {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]

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**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 project qualifies for ministerial approval under the District's Guideline for Expedited Application Review (GEAR). Section 21080 of the Public Resources Code exempts from the application of CEQA those projects over which a public agency exercises only ministerial approval. Therefore, the District finds that this project is exempt from the provisions of CEQA.

**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 is 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**
Compliance with all applicable rules and regulations is expected. Pending a successful NSR Public Noticing period, issue ATC S-1242-20-0 subject to the permit conditions on the attached draft ATC in Appendix A.

X. Billing Information

<table>
<thead>
<tr>
<th>Permit Number</th>
<th>Fee Schedule</th>
<th>Fee Description</th>
<th>Fee Amount</th>
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<tr>
<td>S-1242-20-0</td>
<td>3020-10-B</td>
<td>145 bhp IC engine</td>
<td>$129</td>
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Appendixes

A. Draft ATC and Emissions Profile
B. BACT Guideline and BACT Analysis
C. Emissions Data Sheet and/or ARB/EPA Certification
D. RMR and AAQA
E. QNEC Calculations
F. SSPE1 Calculations
Appendix A
Draft ATC and Emissions Profile
SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT

AUTHORITY TO CONSTRUCT

PERMIT NO: S-1242-20-0
LEGAL OWNER OR OPERATOR: SENECA RESOURCES
MAILING ADDRESS: 4800 CORPORATE CT
                  BAKERSFIELD, CA 93311
LOCATION: SOUTH BELRIDGE GAS PLANT
          CA

EQUIPMENT DESCRIPTION:
145 BHP (INTERMITTENT) CUMMINS MODEL QSB4.5L TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC
ENGINE POWERING AN AIR COMPRESSOR.

CONDITIONS

1. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. {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, Ringellmann 1 or 20% opacity. [District Rule 4101]
3. {14} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
4. The exhaust stack shall vent 30 degrees from vertical 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. {4749} This engine shall be equipped with a non-resettable hour meter with a minimum display capability of 9,999
   hours, unless the District determines 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. [District
   Rule 4702 and 17 CCR 93115]
6. {4258} 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]
7. Emissions from this IC engine shall not exceed any of the following limits: 2.60 g-NOx/bhp-hr, 0.70 g-CO/bhp-hr, or
   0.20 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93115]
8. Emissions from this IC engine shall not exceed 0.10 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test
   procedure. [District Rules 2201 and 4102, and 17 CCR 93115]

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 Sadreddin, Executive Director, APCO

Arnaud Marjolin, Director of Permit Services

Southern Regional Office • 34946 Flyover Court • Bakersfield CA 93306 • (661) 392-5500 • Fax (661) 392-5585
9. 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]

10. (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 emission 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]

11. (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]

12. (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 and 17 CCR 93115]

13. (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]

14. (4920) 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 50 hours per calendar year. [District Rules 2201, 4102, and 4702, and 17 CCR 93115]

15. (4263) The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115]

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]
### Application Emissions

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<th>Last Updated</th>
<th>Facility: SENECA</th>
<th>10/06/2017 PROCOPI RESOURCES</th>
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Equipment Pre-Baselined: NO

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<tr>
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<th>PM10</th>
<th>CO</th>
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Check if offsets are triggered but exemption applies

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<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
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</table>

Offset Ratio

Quarterly Offset Amounts (lb/Quatr)

<table>
<thead>
<tr>
<th></th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q2:</td>
<td></td>
<td></td>
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<tr>
<td>Q3:</td>
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<tr>
<td>Q4:</td>
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</tbody>
</table>
Appendix B
BACT Guideline and BACT Analysis
### Best Available Control Technology (BACT) Guideline 3.1.1
**Last Update: 9/10/2013**
**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>
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</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></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.15 g/bhp-hr or the Latest EPA Tier Certification level for applicable horsepower range, whichever is more stringent. (ATCM)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PM10</td>
<td>Very low sulfur diesel fuel (15 ppmw sulfur or less)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOX</td>
<td>Latest EPA Tier Certification level for applicable horsepower range*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note: The certification requirements are as follows: for emergency engines $50 \leq \text{bhp} < 75$ - Tier 4 Interim; for emergency engines $75 \leq \text{bhp} < 750$ - Tier 3; for emergency engines $\geq 750 \text{ bhp}$ - Tier 2.

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

BACT Guideline 3.1.1 (September 10, 2013) applies to emergency diesel IC engines. In accordance with the District BACT policy, information from that guideline will be utilized without further analysis.

1. BACT Analysis for NOx and VOC Emissions:
   
a. Step 1 - Identify all control technologies

   BACT Guideline 3.1.1 identifies only the following option:
   
   • Latest EPA Tier Certification level for applicable horsepower range

   To determine the latest applicable Tier level, the following EPA and state regulations were consulted:

   • 40 CFR Part 89 – Control of Emissions from New and In-Use Nonroad Compression – Ignition Engines

   • 40 CFR Part 1039 – Control of Emissions from New and In-Use Nonroad Compression-Ignition Engines

   • Title 17 CCR, Section 93115 - Airborne Toxic Control Measure (ATCM) for Stationary Compression-Ignition (CI) Engines

   40 CFR Parts 89 and 1039, which apply only to nonroad engines, do not directly apply because the proposed emergency engine does not meet the definition of a nonroad engine. Therefore, only Title 17 CCR, Section 93115 applies directly to the proposed emergency engine.

   Title 17 CCR, Section 93115.6(a)(3)(A) (CARB stationary diesel engine ATCM) applies to emergency standby diesel-fired engines and requires that such engines be certified to the emission levels in Table 1 (below).
Table 1: Emission Standards for New Stationary Emergency Standby Diesel-Fueled CI Engines g/bhp-hr (g/kW-hr)

<table>
<thead>
<tr>
<th>Maximum Engine Power</th>
<th>Tier</th>
<th>Model Year(s)</th>
<th>PM</th>
<th>NMHC+NOx</th>
<th>CO</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 ≤ HP &lt; 75 (37 ≤ kW &lt; 56)</td>
<td>2</td>
<td>2007</td>
<td>0.15 (0.20)</td>
<td>5.6 (7.5)</td>
<td>3.7 (5.0)</td>
</tr>
<tr>
<td></td>
<td>4i</td>
<td>2008+</td>
<td></td>
<td>3.6 (4.7)</td>
<td></td>
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<tr>
<td>75 ≤ HP &lt; 100 (56 ≤ kW &lt; 75)</td>
<td>2</td>
<td>2007</td>
<td>0.15 (0.20)</td>
<td>5.6 (7.5)</td>
<td>3.7 (5.0)</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>2008+</td>
<td></td>
<td>3.5 (4.7)</td>
<td></td>
</tr>
<tr>
<td>100 ≤ HP &lt; 175 (75 ≤ kW &lt; 130)</td>
<td>3</td>
<td>2007</td>
<td>0.15 (0.20)</td>
<td>3.0 (4.0)</td>
<td>3.7 (5.0)</td>
</tr>
<tr>
<td></td>
<td>2008+</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>175 ≤ HP &lt; 300 (130 ≤ kW &lt; 225)</td>
<td>3</td>
<td>2007</td>
<td>0.15 (0.20)</td>
<td>3.0 (4.0)</td>
<td>2.6 (3.5)</td>
</tr>
<tr>
<td></td>
<td>2008+</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 ≤ HP &lt; 600 (225 ≤ kW &lt; 450)</td>
<td>3</td>
<td>2007</td>
<td>0.15 (0.20)</td>
<td>3.0 (4.0)</td>
<td>2.6 (3.5)</td>
</tr>
<tr>
<td></td>
<td>2008+</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600 ≤ HP &lt; 750 (450 ≤ kW &lt; 560)</td>
<td>3</td>
<td>2007</td>
<td>0.15 (0.20)</td>
<td>3.0 (4.0)</td>
<td>2.6 (3.5)</td>
</tr>
<tr>
<td></td>
<td>2008+</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HP &gt; 750 (kW &gt; 560)</td>
<td>2</td>
<td>2007</td>
<td>0.15 (0.20)</td>
<td>4.8 (6.4)</td>
<td>2.6 (3.5)</td>
</tr>
</tbody>
</table>

Therefore, the most stringent applicable emission standards are those listed in the CARB ATCM (Table 1).

For IC engines rated greater than or equal to 50 hp and less than 75 hp, the highest Tier required is Tier 4i. For IC engines rated greater than or equal to 75 hp and less than 750 hp, the highest Tier required is Tier 3. For engines rated equal to or greater than 750 hp, the highest Tier required is Tier 2.

Also, please note that neither the state ATCM nor the Code of Federal Regulations require the installation of IC engines meeting a higher Tier standard than those listed above for emergency applications, due to concerns regarding the effectiveness of the exhaust emissions controls during periods of short-term operation (such as testing operational readiness of an emergency engine).

The proposed engine is rated at 145 hp. Therefore, the applicable control technology option is EPA Tier 3 certification.

b. Step 2 - Eliminate technologically infeasible options

The control option listed in Step 1 is not technologically infeasible.

c. Step 3 - Rank remaining options by control effectiveness

No ranking needs to be done because there is only one control option listed in Step 1.
d. Step 4 - Cost Effectiveness Analysis

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

e. Step 5 - Select BACT

BACT for NOx and VOC emissions will be the use of an EPA Tier 3 certified engine. The applicant is proposing such a unit. Therefore, BACT will be satisfied.
Appendix C
ARB/EPA Certification
Appendix D
Technical Services Memo
San Joaquin Valley Air Pollution Control District  
Risk Management Review  

To: Silvana Procopio – Permit Services  
From: Jessica Rosas – Technical Services  
Date: October 9, 2017  
Facility Name: Seneca Resources  
Location: SW19, T28S, R21E  
Application #(s): S-1242-20-0  
Project #: S-1173284  

A. RMR SUMMARY

<table>
<thead>
<tr>
<th>Units</th>
<th>Prioritization Score</th>
<th>Acute Hazard Index</th>
<th>Chronic Hazard Index</th>
<th>Maximum Individual Cancer Risk</th>
<th>T-BACT Required?</th>
<th>Special Permit Requirements?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 20-0</td>
<td>N/A¹</td>
<td>N/A²</td>
<td>0.00</td>
<td>1.87E-08</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>(DICE)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Project Totals</td>
<td>N/A¹</td>
<td>N/A²</td>
<td>0.00</td>
<td>1.87E-08</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>Facility Totals</td>
<td>&gt;1</td>
<td>0.0</td>
<td>0.00</td>
<td>1.87E-08</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

¹Prioritization 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.  
²Acute Hazard Index was not calculated since there is no risk factor or the risk factor is so low that it 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:

Unit # 20-0

1. The PM10 emissions rate shall not exceed 0.10 g/bhp-hr based on US EPA certification using ISO 8178 test procedure.
2. The exhaust stack shall vent 30 degrees from vertical 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 50 hours per calendar year.
B. RMR REPORT

I. Project Description

Technical Services received a request on October 9, 2017, to perform a Risk Management Review for a proposed installation of a 145 bhp emergency diesel IC engine powering a compressor.

II. Analysis

Toxic emissions for this proposed unit were calculated using PM10 emission rates calculated and supplied by the processing engineer, and input into the San Joaquin Valley APCD's Hazard Assessment and Reporting Program (SHARP). 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. The prioritization score for this proposed facility was greater than 1.0 (see RMR Summary Table). Therefore, a refined health risk assessment was required. The AERMOD model was used, with the parameters outlined below and meteorological data for 2004-2008 from Missouri Triangle to determine the dispersion factors (i.e., the predicted concentration or X divided by the normalized source strength or Q) for a receptor grid. These dispersion factors were input into the SHARP Program, which then used the Air Dispersion Modeling and Risk Tool (ADMRT) of the Hot Spots Analysis and Reporting Program Version 2 (HARP 2) to calculate the chronic and acute hazard indices and the carcinogenic risk for the project.

The following parameters were used for the review:

<table>
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<tr>
<th>Source Type</th>
<th>Location Type</th>
<th>Rural</th>
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</thead>
<tbody>
<tr>
<td>Stack Height (m)</td>
<td>Closest Receptor (m)</td>
<td>340</td>
</tr>
<tr>
<td>Stack Diameter. (m)</td>
<td>Type of Receptor</td>
<td>Business</td>
</tr>
<tr>
<td>Stack Exit Velocity (m/s)</td>
<td>Max Hours per Year</td>
<td>50</td>
</tr>
<tr>
<td>Stack Exit Temp. (°K)</td>
<td>Fuel Type</td>
<td>Diesel</td>
</tr>
<tr>
<td>PM10 Emission (lb/hr)</td>
<td>PM10 Emission (lb/yr)</td>
<td>2</td>
</tr>
</tbody>
</table>
Technical Services performed modeling for criteria pollutants CO, NOx, SOx, and PM10 with the emission rates below:

<table>
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<tr>
<th>Unit #</th>
<th>NOx (Lbs.)</th>
<th>SOx (Lbs.)</th>
<th>CO (Lbs.)</th>
<th>PM10 (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-0</td>
<td>0 42</td>
<td>0 0</td>
<td>0 11</td>
<td>0 2</td>
</tr>
</tbody>
</table>

The results from the Criteria Pollutant Modeling are as follows:

<table>
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<tr>
<th></th>
<th>Background Site</th>
<th>1 Hour</th>
<th>3 Hours</th>
<th>8 Hours</th>
<th>24 Hours</th>
<th>Annual</th>
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</thead>
<tbody>
<tr>
<td>CO</td>
<td>Arvin-DiGiorgio (2016)</td>
<td>NA(^1)</td>
<td>X</td>
<td>NA(^1)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>NOx</td>
<td>Bakersfield-California (2016)</td>
<td>NA(^1)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Pass</td>
</tr>
<tr>
<td>SOx</td>
<td>Fresno – Garland (2016)</td>
<td>NA(^1)</td>
<td>NA(^1)</td>
<td>X</td>
<td>NA(^1)</td>
<td>Pass</td>
</tr>
<tr>
<td>PM(_{10})</td>
<td>Bakersfield-California (2016)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>NA(^1)</td>
<td>Pass(^2)</td>
</tr>
<tr>
<td>PM(_{2.5})</td>
<td>Bakersfield-Airport Planz (2016)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>NA(^1)</td>
<td>Pass(^3)</td>
</tr>
</tbody>
</table>

\(^1\)Results were taken from the attached PSD spreadsheet.
\(^2\)The 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.
\(^3\)The criteria pollutants are below EPA’s level of significance as found in 40 CFR Part 51.165 (b)(2).

\(^3\)The court has vacated EPA’s PM\(_{2.5}\) SILs. Until such time as new SIL values are approved, the District will use the corresponding PM\(_{10}\) SILs for both PM\(_{10}\) and PM\(_{2.5}\) analyses.

### III. Conclusion

The acute and chronic indices are below 1.0 and the cancer risk factor associated with the project is less than 1.0 in a million. In accordance with the District’s Risk Management Policy, the project is approved without Toxic Best Available Control Technology (TBACT).

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.
IV. Attachments

A. RMR request from the project engineer
B. Additional information from the applicant/project engineer
C. Convert
D. Facility Summary
E. AAQA Summary
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:

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

- QNEC = Quarterly Net Emissions Change for each emissions unit, lb/qtr
- PE2 = Post-Project Potential to Emit for each emissions unit, lb/qtr
- PE1 = Pre-Project Potential to Emit for each emissions unit, lb/qtr

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

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

\[ PE_{2, \text{quarterly}} = \frac{PE2 \ (\text{lb/yr})}{4 \text{ quarters/year}} = \text{QNEC} \]

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PE2 Total (lb/yr)</th>
<th>Quarterly PE2 (lb/qtr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>42</td>
<td>10.5</td>
</tr>
<tr>
<td>SOx</td>
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<td>0.0</td>
</tr>
<tr>
<td>PM10</td>
<td>2</td>
<td>0.5</td>
</tr>
<tr>
<td>CO</td>
<td>11</td>
<td>2.8</td>
</tr>
<tr>
<td>VOC</td>
<td>3</td>
<td>0.8</td>
</tr>
</tbody>
</table>
Appendix F
SSPE1 Calculations
### Detailed SSPE Report

<table>
<thead>
<tr>
<th>Region</th>
<th>Facility</th>
<th>Unit</th>
<th>Mod</th>
<th>NOx</th>
<th>SOx</th>
<th>PM10</th>
<th>CO</th>
<th>VOC</th>
<th>Number of Outstanding ATCs</th>
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<td>18433</td>
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</table>

**SSPE (lbs)**

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</tr>
<tr>
<td></td>
<td>23571</td>
</tr>
</tbody>
</table>

**Thursday, October 5, 2017**

**Notes:**

Blank values for a particular permit unit do not necessarily reflect zero emissions. For units with blank values, the PE must still be determined based on physical PE or as limited by permit condition.

For permits that show outstanding ATCs, consult PAS ATC Emission Profile records to determine what the highest PE is for each pollutant.

ATCs for new units (e.g. S-XXXX-X-0) must be added in separately.

ERC's for onsite reductions must be added in separately per Rule 2201 as well.