Paul Ball
Univision Group DBA KUVI TV45
5801 Truxtun Ave.
Bakersfield, CA 93309

Re: Notice of Preliminary Decision - Authority to Construct
Facility Number: S-2576
Project Number: S-1183926

Dear Mr. Ball:

Enclosed for your review and comment is the District's analysis of Univision Group DBA
KUVI TV45's application for an Authority to Construct for an increase in authorized
usage of their existing emergency IC engine powering an electric generator, at the
Univision Group broadcasting site in Kern county.

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

Thank you for your cooperation in this matter. If you have any questions regarding this
matter, please contact Mr. William Jones of Permit Services at (661) 392-5610.

Sincerely,

Annaud Marjollet
Director of Permit Services

cc: Brian Clerico, CARB (w/ enclosure) via email
San Joaquin Valley Air Pollution Control District
Authority to Construct Application Review
Increase daily usage

Facility Name: Univision Group dba KUVI TV 45
Mailing Address: 5801 Truxtun Ave.
Bakersfield, CA 93309
Contact Person: Paul Bull
Telephone: 661-334-2662
Fax:
E-Mail: pball@univision.net
Application #(s): S-2576-2-1
Project #: S-1183926
Deemed Complete: 12/12/18
Date: 6/6/19
Engineer: William Jones
Lead Engineer: Rich Karrs

I. Proposal

Univision Group (UG) has requested an Authority to Construct (ATC) permit to authorize an increase in non-emergency usage of their existing diesel-fired emergency internal combustion (IC) engine, currently used to power a 350 kW electrical generator at a UG’s television broadcast tower.

There is no physical modification associated with this project. During the engine’s initial implementation, the unit was restricted to operating less than 10 hrs./day in order to avoid trigger public notice. Therefore, the unit will be subject to public notice as a result of this modification. UG is proposing to increase the maximum daily non-emergency hours of operation, from 10 hr./day to 24 hr./day. The change in hours of operation, will result in a daily PE of greater than 100 lb. /day. Therefore, this project will trigger public notice for NSR purposes, and will be subject to, and in compliance with BACT at the time of installation. There is no increase in annual emissions associated with this project.

The draft ATC S-2576-2-1 is included in Appendix A.
The current PTO S-2576-2-0 is included in Appendix B.

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 UG television broadcast tower, within the NE/4 of Section 3, Township 29S, Range 30E in Kern County CA. The equipment is not located within 1,000 feet of the outer boundary of a K-12 school. Therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project.

IV. Process Description

The emergency engine powers a 350 kW electrical generator for a television broadcast tower. Other than emergency operation, the engine may be operated up to 50 hours per year for maintenance and testing purposes.

This project will authorize the unit to operate up to 24 hr. /day, no increase in annual usage is associated with this project.

V. Equipment Listing

Pre-Project Equipment Description:

S-2576-2-0: 536 BHP CATERPILLAR MODEL 3456 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

Proposed Modification:

S-2576-2-1: MODIFICATION OF 536 BHP CATERPILLAR MODEL 3456 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR: INCREASE THE AUTHORIZED DAILY USE

Post Project Equipment Description:

S-2576-2-1: 536 BHP CATERPILLAR MODEL 3456 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
VI. Emission Control Technology Evaluation

There are no changes in control methods proposed by the applicant. The emission control device is described in the engineering evaluation for project number S-1054382. No further discussion is necessary.

VII. General Calculations

A. Assumptions

- To streamline emission calculations, PM2.5 emissions are assumed to be equal to PM10 emissions. Only if needed to determine if a project is a Federal major modification for PM2.5 will specific PM2.5 emission calculations be performed.
- Pre-project Non-emergency operating schedule: 10 hours/day, 50 hours/year
- Post-project Non-emergency operating schedule: 24 hours/day, 50 hours/year
- Emergency operating schedule: 24 hours/day
- 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
- Fuel usage at peak hp: 26.1 gallon/hr.
- PM10 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>NOx</td>
<td>4.25</td>
<td>Current Permit</td>
</tr>
<tr>
<td>SOx</td>
<td>0.171</td>
<td>Mass Balance Equation Below</td>
</tr>
<tr>
<td>PM10</td>
<td>0.07</td>
<td>Current Permit</td>
</tr>
<tr>
<td>CO</td>
<td>0.45</td>
<td>Current Permit</td>
</tr>
<tr>
<td>VOC</td>
<td>0.75</td>
<td>Current Permit</td>
</tr>
</tbody>
</table>

\[
0.05 \frac{\% S}{gallon} \times \frac{7.1 lb - fuel}{gallon} \times \frac{2 lb - SO_2}{1 lb - S} \times \frac{1 gal}{137,000 Btu} \times \frac{1 bhp input}{0.35 bhp out} \times \frac{2,542.5 Btu}{hp \cdot hr} \times \frac{453.6 g}{lb} = 0.171 \frac{g - SO_x}{bhp \cdot hr}
\]

C. Calculations

1. Pre-Project Potential to Emit (PE1)

The daily and annual PE are calculated as follows:
### Daily Pre-Project Emissions

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emissions Factor (g/bhp-hr)</th>
<th>Rating (bhp)</th>
<th>Daily Hours of Operation (hrs./day)</th>
<th>Conversion (g/lfb.)</th>
<th>PE2 Total (lb./day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>4.25</td>
<td>536</td>
<td>10</td>
<td>453.6</td>
<td>50.2</td>
</tr>
<tr>
<td>SO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>0.171</td>
<td>536</td>
<td>10</td>
<td>453.6</td>
<td>2.0</td>
</tr>
<tr>
<td>PM&lt;sub&gt;10&lt;/sub&gt;</td>
<td>0.07</td>
<td>536</td>
<td>10</td>
<td>453.6</td>
<td>0.8</td>
</tr>
<tr>
<td>CO</td>
<td>0.45</td>
<td>536</td>
<td>10</td>
<td>453.6</td>
<td>5.3</td>
</tr>
<tr>
<td>VOC</td>
<td>0.75</td>
<td>536</td>
<td>10</td>
<td>453.6</td>
<td>8.9</td>
</tr>
</tbody>
</table>

### Annual Pre-Project Emissions

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emissions Factor (g/bhp-hr)</th>
<th>Rating (bhp)</th>
<th>Annual Hours of Operation (hrs./ryr.)</th>
<th>Conversion (g/lfb.)</th>
<th>PE2 Total (lb./yr.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>4.25</td>
<td>536</td>
<td>50</td>
<td>453.6</td>
<td>251</td>
</tr>
<tr>
<td>SO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>0.171</td>
<td>536</td>
<td>50</td>
<td>453.6</td>
<td>10</td>
</tr>
<tr>
<td>PM&lt;sub&gt;10&lt;/sub&gt;</td>
<td>0.07</td>
<td>536</td>
<td>50</td>
<td>453.6</td>
<td>4</td>
</tr>
<tr>
<td>CO</td>
<td>0.45</td>
<td>536</td>
<td>50</td>
<td>453.6</td>
<td>27</td>
</tr>
<tr>
<td>VOC</td>
<td>0.75</td>
<td>536</td>
<td>50</td>
<td>453.6</td>
<td>44</td>
</tr>
</tbody>
</table>

### 2. Post Project Potential to Emit (PE2)

The daily and annual PE are calculated as follows:

### Daily Post-Project Emissions

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emissions Factor (g/bhp-hr)</th>
<th>Rating (bhp)</th>
<th>Daily Hours of Operation (hrs./day)</th>
<th>Conversion (g/lfb.)</th>
<th>PE2 Total (lb./day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>4.25</td>
<td>536</td>
<td>24</td>
<td>453.6</td>
<td>120.5</td>
</tr>
<tr>
<td>SO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>0.171</td>
<td>536</td>
<td>24</td>
<td>453.6</td>
<td>4.8</td>
</tr>
<tr>
<td>PM&lt;sub&gt;10&lt;/sub&gt;</td>
<td>0.07</td>
<td>536</td>
<td>24</td>
<td>453.6</td>
<td>2.0</td>
</tr>
<tr>
<td>CO</td>
<td>0.45</td>
<td>536</td>
<td>24</td>
<td>453.6</td>
<td>12.8</td>
</tr>
<tr>
<td>VOC</td>
<td>0.75</td>
<td>536</td>
<td>24</td>
<td>453.6</td>
<td>21.3</td>
</tr>
</tbody>
</table>

### Annual Post-Project Emissions

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emissions Factor (g/bhp-hr)</th>
<th>Rating (bhp)</th>
<th>Annual Hours of Operation (hrs./yr.)</th>
<th>Conversion (g/lfb.)</th>
<th>PE2 Total (lb./yr.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>4.25</td>
<td>536</td>
<td>50</td>
<td>453.6</td>
<td>251</td>
</tr>
<tr>
<td>SO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>0.171</td>
<td>536</td>
<td>50</td>
<td>453.6</td>
<td>10</td>
</tr>
<tr>
<td>PM&lt;sub&gt;10&lt;/sub&gt;</td>
<td>0.07</td>
<td>536</td>
<td>50</td>
<td>453.6</td>
<td>4</td>
</tr>
<tr>
<td>CO</td>
<td>0.45</td>
<td>536</td>
<td>50</td>
<td>453.6</td>
<td>27</td>
</tr>
<tr>
<td>VOC</td>
<td>0.75</td>
<td>536</td>
<td>50</td>
<td>453.6</td>
<td>44</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 (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of Emission Reduction Credits (ERC) 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.

<table>
<thead>
<tr>
<th>Permit Unit</th>
<th>NOx</th>
<th>SOx</th>
<th>PM_{10}</th>
<th>CO</th>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-2576-2-0</td>
<td>251</td>
<td>10</td>
<td>4</td>
<td>27</td>
<td>44</td>
</tr>
<tr>
<td>SSPE1</td>
<td>251</td>
<td>10</td>
<td>4</td>
<td>27</td>
<td>44</td>
</tr>
</tbody>
</table>

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

Pursuant to District Rule 2201, the SSPE2 is the PE from all units with valid ATCs or PTOs 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.

<table>
<thead>
<tr>
<th>Permit Unit</th>
<th>NOx</th>
<th>SOx</th>
<th>PM_{10}</th>
<th>CO</th>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-2576-2-1</td>
<td>251</td>
<td>10</td>
<td>4</td>
<td>27</td>
<td>44</td>
</tr>
<tr>
<td>SSPE2</td>
<td>251</td>
<td>10</td>
<td>4</td>
<td>27</td>
<td>44</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>NOx</th>
<th>SOx</th>
<th>PM_{10}</th>
<th>PM_{2.5}</th>
<th>CO</th>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSPE1</td>
<td>251</td>
<td>10</td>
<td>4</td>
<td>4</td>
<td>27</td>
</tr>
<tr>
<td>SSPE2</td>
<td>251</td>
<td>10</td>
<td>4</td>
<td>4</td>
<td>27</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Major Source Threshold</th>
<th>NOx</th>
<th>SOx</th>
<th>PM_{10}</th>
<th>PM_{2.5}</th>
<th>CO</th>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Source?</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
Note: PM2.5 assumed to be equal to PM10

As seen in the table above, the facility is not an existing Major Source and is not becoming a Major Source as a result of this project.

**Rule 2410 Major Source Determination:**

The facility is not an existing Major Source for PSD for at least one pollutant. Therefore the facility is not an existing Major Source for PSD.

6. **Baseline Emissions (BE)**

The BE calculation (in lb. /year) is performed pollutant-by-pollutant for each unit within the project to calculate the QNEC, and if applicable, to determine the amount of offsets required.

Pursuant to District Rule 2201, BE = PE1 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.

As shown in Section VII.C.5 above, the facility is not a Major Source for any pollutant.

Therefore BE = PE1.

**S-2576-2-1:**

As calculated in Section VII.C.1 above, PE1 is summarized in the following table:

<table>
<thead>
<tr>
<th></th>
<th>BE (lb./year)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NOx</td>
</tr>
<tr>
<td>S-2576-2-1</td>
<td>251</td>
</tr>
</tbody>
</table>

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 facility is not a major source for any of the pollutants addressed in 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 facility is not a Major Source for any pollutants, this project does not constitute a Federal Major Modification.

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 F.

VIII. Compliance Determination

Rule 2201 New and Modified Stationary Source Review Rule

A. Best Available Control Technology (BACT)

1. BACT Applicability

Pursuant to District Rule 2201, Section 4.1, 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 Adjusted Increase in Permitted Emissions (AIPE) 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 discussed in Section 1 above, there are no new emissions units associated with this project. Therefore BACT for new units with PE > 2 lb./day purposes is not triggered.

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

As discussed in Section 1 above, there are no emissions units being relocated from one stationary source to another; therefore BACT is not triggered.

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

$AIPE = PE2 - HAPE$

Where,
- $AIPE =$ Adjusted Increase in Permitted Emissions, (lb./day)
- $PE2 =$ Post-Project Potential to Emit, (lb./day)
- $HAPE =$ Historically Adjusted Potential to Emit, (lb./day)

$HAPE = PE1 \times (EF2/EF1)$

Where,
- $PE1 =$ The emissions unit’s PE prior to modification or relocation, (lb./day)
- $EF2 =$ The emissions unit’s permitted emission factor for the pollutant after modification or relocation. If EF2 is greater than EF1 then EF2/EF1 shall be set to 1.
- $EF1 =$ The emissions unit’s permitted emission factor for the pollutant before the modification or relocation

$AIPE = PE2 - (PE1 \times (EF2/EF1))$

**S-2576-2-1:**

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>AIPE Calculation</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx</td>
<td>$120.5 - (50.2 \times (4.25/4.25))$</td>
<td>70.3 lb. NOx/day</td>
</tr>
<tr>
<td>SOx</td>
<td>$4.8 - (2.0 \times (0.171/0.171))$</td>
<td>2.8 lb. SOx/day</td>
</tr>
<tr>
<td>PM10</td>
<td>$2.0 - (0.8 \times (0.07/0.07))$</td>
<td>1.2 lb. PM10/day</td>
</tr>
</tbody>
</table>
\[
\text{CO AIPE} = 12.8 - (5.3 \times (0.45/0.45)) \\
= 7.5 \text{ lb. CO/day}
\]

\[
\text{VOC AIPE} = 21.3 - (8.9 \times (0.75/0.75)) \\
= 12.4 \text{ lb. VOC/day}
\]

As demonstrated above, the AIPE is greater than 2.0 lb./day for NO\textsubscript{x}, SO\textsubscript{x}, CO, and VOC emissions. However, SSPE\textsubscript{2} is SSPE\textsubscript{2} < 200,000 lb. CO/yr. Therefore, BACT is only triggered for NO\textsubscript{x}, SO\textsubscript{x}, and VOC.

d. SB 288/Federal Major Modification

As discussed in Sections VII.C.7 and VII.C.8 above, this project does not constitute an SB 288 and/or Federal Major Modification for any pollutant. Therefore BACT is not triggered for any pollutant.

2. BACT Guideline

Since this is an existing unit, it is subject to BACT at the time of installation. Therefore, the unit is subject to BACT Guideline 3.1.3, 2nd quarter 2001, which appears in Appendix C of this report, covers diesel-fired emergency IC engines of greater than or equal to 400 brake horsepower.

3. Top-Down BACT Analysis

Per Permit Services Policies and Procedures for BACT, 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.

Pursuant to the attached Top-Down BACT Analysis (see Appendix C), BACT has been satisfied with the following:

- NO\textsubscript{x}:
  Latest Available Tier Certification level for applicable horsepower*
- VOC:
  Latest Available Tier Certification level for applicable horsepower*
- SO\textsubscript{x}:
  Very low sulfur diesel (15 ppmw sulfur or less)

*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 536 bhp Tier 3 certified IC engine, and using very low sulfur diesel fuel. Therefore, BACT is satisfied for NO\textsubscript{x}, SO\textsubscript{x}, and VOC.
B. Offsets

1. Offset Applicability

Pursuant to District Rule 2201, Section 4.5, offset requirements shall be triggered on a pollutant by pollutant basis and shall be required if the SSPE2 equals or exceeds the offset threshold levels in Table 4-1 of Rule 2201.

The SSPE2 is compared to the offset thresholds in the following table.

<table>
<thead>
<tr>
<th>Offset Determination (lb./year)</th>
<th>NO(_X)</th>
<th>SO(_X)</th>
<th>PM(_{10})</th>
<th>CO</th>
<th>VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSPE2</td>
<td>251</td>
<td>10</td>
<td>4</td>
<td>27</td>
<td>44</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>No</td>
</tr>
</tbody>
</table>

2. Quantity of Offsets Required

As seen above, the SSPE2 is not greater than the offset thresholds for all the pollutants; therefore offset calculations are not necessary and offsets will not be required for this project.

C. Public Notification

1. Applicability

Pursuant to District Rule 2201, Section 5.4, public noticing is required for:

a. New Major Sources, Federal Major Modifications, and SB 288 Major Modifications,
b. Any new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any one pollutant,
c. Any project which results in the offset thresholds being surpassed,
d. Any project with an SSIPE of greater than 20,000 lb./year for any pollutant, and/or
e. Any project which results in a Title V significant permit modification

a. New Major Sources, Federal Major Modifications, and SB 288 Major Modifications

New Major Sources are new facilities, which are also Major Sources. Since this is not a new facility, public noticing is not required for this project for New Major Source purposes.
As demonstrated in Sections VII.C.7 and VII.C.8, this project does not constitute an SB 288 or Federal Major Modification; therefore, public noticing for SB 288 or Federal Major Modification purposes is not required.

b. PE > 100 lb./day

Applications which include a new emissions unit with a PE greater than 100 pounds during any one day for any pollutant will trigger public noticing requirements. There are no new emissions units associated with this project. However, there is no physical modification to the unit associated with this project. The change in hours of operation, will result in a daily PE of greater than 100 lb./day. Since, the unit did not undergo the public notice process prior to the unit’s initial implementation, this project will trigger public notice.

c. Offset Threshold

Pursuant to District Rule 2201, Section 4.5.3, offset requirements shall be triggered on a pollutant-by-pollutant basis, unless exempted pursuant to Section 4.6, offsets shall be required if the post-project Stationary Source Potential to Emit (SSPE2) equals or exceeds specific threshold levels.

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>251</td>
<td>251</td>
<td>20,000 lb./year</td>
<td>No</td>
</tr>
<tr>
<td>SOX</td>
<td>10</td>
<td>10</td>
<td>54,750 lb./year</td>
<td>No</td>
</tr>
<tr>
<td>PM10</td>
<td>4</td>
<td>4</td>
<td>29,200 lb./year</td>
<td>No</td>
</tr>
<tr>
<td>CO</td>
<td>27</td>
<td>27</td>
<td>200,000 lb./year</td>
<td>No</td>
</tr>
<tr>
<td>VOC</td>
<td>44</td>
<td>44</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. SSIPE > 20,000 lb./year

Public notification is required for any permitting action that results in a SSIPE of more than 20,000 lb./year of any affected pollutant. According to District policy, the SSIPE = SSPE2 – SSPE1. The SSIPE is compared to the SSIPE Public Notice thresholds in the following table.
### SSIPE Public Notice Thresholds

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>SSPE2 (lb./year)</th>
<th>SSPE1 (lb./year)</th>
<th>SSIE (lb./year)</th>
<th>SSIPE Public Notice Threshold</th>
<th>Public Notice Required?</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOₓ</td>
<td>251</td>
<td>251</td>
<td>0</td>
<td>20,000 lb./year</td>
<td>No</td>
</tr>
<tr>
<td>SOₓ</td>
<td>10</td>
<td>10</td>
<td>0</td>
<td>20,000 lb./year</td>
<td>No</td>
</tr>
<tr>
<td>PM₁₀</td>
<td>4</td>
<td>4</td>
<td>0</td>
<td>20,000 lb./year</td>
<td>No</td>
</tr>
<tr>
<td>CO</td>
<td>27</td>
<td>27</td>
<td>0</td>
<td>20,000 lb./year</td>
<td>No</td>
</tr>
<tr>
<td>VOC</td>
<td>44</td>
<td>44</td>
<td>0</td>
<td>20,000 lb./year</td>
<td>No</td>
</tr>
</tbody>
</table>

As demonstrated above, the SSIPEs for all pollutants were less than 20,000 lb./year; therefore public noticing for SSIPE purposes is not required.

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

### D. Daily Emission Limits (DELs)

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. DELs are also required to enforce the applicability of BACT.

**Proposed Rule 2201 (DEL) Conditions:**
- Emissions from this IC engine shall not exceed any of the following limits: 4.25 g-NOₓ/bhp-hr, 0.45 g-CO/bhp-hr, or 0.75 g-VOC/bhp-hr. [District Rules 2201, 4702 and 13 CCR 2423 and 17 CCR 93115] N
- The PM₁₀ emissions rate shall not exceed 0.07 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423]N
- {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] N
E. Compliance Assurance

1. Source Testing

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

2. Monitoring

No monitoring is required to demonstrate compliance with Rule 2201.

3. Recordkeeping

Recordkeeping is required to demonstrate compliance with the offset, public notification and daily emission limit requirements of Rule 2201. This unit is currently in compliance with this rule, continued compliance is expected.

4. Reporting

No reporting is required to demonstrate compliance with Rule 2201.

F. Ambient Air Quality Analysis (AAQA)

Section 4.14 of District Rule 2201 requires that an 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 District’s Technical Services Division 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 the state’s PM_{10} as well as federal and state PM_{2.5} thresholds. As shown by the AAQA summary sheet the proposed equipment will not cause a violation of an air quality standard for PM_{10} and PM_{2.5}.

Rule 2410 Prevetion 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 potential emissions do 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 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 person shall discharge into the atmosphere emissions of any air contaminant aggregating more than 3 minutes in any hour which is as dark as or darker than Ringelmann 1 (or 20% opacity). As the IC engine is fired solely on natural gas, visible emissions are not expected to exceed Ringelmann 1 or 20% opacity. Also, based on past inspections of the facility continued compliance is expected.

Rule 4102 Nuisance

Rule 4102 prohibits discharge of air contaminants which could cause injury, detriment, nuisance or annoyance to the public. Public nuisance conditions are not expected as a result of these operations, provided the equipment is well maintained. Therefore, compliance with this rule is expected.

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 or equal to one. According to the Technical Services Memo for this project (Appendix D), the total facility prioritization score including this project was less than or equal to one. Therefore, no further analysis is required to determine the impact from this project and compliance with the District's Risk Management Policy is expected.
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.

$$0.1 \frac{\text{grain-PM}}{\text{dscf}} \times \frac{g}{15.43 \text{grain}} \times \frac{1 \text{Btu}_{\text{in}}}{0.35 \text{Btu}_{\text{out}}} \times \frac{9.05 \text{kJ}}{2,542.5 \text{Btu}} \times \frac{0.96 \text{g-PM}_{10}}{1 \text{g-PM}} = 0.4 \frac{\text{g-PM}_{10}}{\text{bhp-hr}}$$

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 remain 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 (NOx), 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 remain 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 remain 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 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 remain 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 remain 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 remain 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 remain 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 SO$_2$) shall not exceed 0.2% by volume. Using the ideal gas equation, the sulfur compound emissions are calculated as follows:

Volume SO$_2$ = (n x R x T) / P

n = moles SO$_2$

T (standard temperature) = 60 °F or 520 °R

R (universal gas constant) = \( \frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{mol} \cdot \degree \text{R}} \)
Since 1.0 ppmv is \( \leq 2,000 \) ppmv, this engine is expected to comply with Rule 4801. Therefore, the following condition will remain 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 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**

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 Powering Electrical Generators</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>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 ( \leq 0.01 ) g/bhp-hr, then the engine is allowed 100 hours per year. Emissions from this engine are certified at 0.07 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>- {4772} Emissions from this IC engine shall not exceed 0.07 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]</td>
<td></td>
</tr>
<tr>
<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...</td>
<td></td>
</tr>
<tr>
<td>Title 17 CCR Section 93115 Requirements for New Emergency IC Engines Powering Electrical Generators</td>
<td>Proposed Method of Compliance with Title 17 CCR Section 93115 Requirements</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Engines, with a PM10 emissions rate greater than 0.01 g/bhp-hr and located at 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</td>
<td>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>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.</td>
<td>The District has verified that this engine is not located within 500’ of a school.</td>
</tr>
<tr>
<td>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.</td>
<td>The following condition will be included on the permit:</td>
</tr>
<tr>
<td></td>
<td>• {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]</td>
</tr>
<tr>
<td></td>
<td>• {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]</td>
</tr>
</tbody>
</table>
California Environmental Quality Act (CEQA)

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 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; and
- 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.

Greenhouse Gas (GHG) Significance Determination

District is a Lead Agency & GHG emissions increases are from the combustion of fossil fuel other than jet fuels.

It is determined that no other agency has prepared or will prepare an environmental review document for the project. Thus the District is the Lead Agency for this project.

On December 17, 2009, the District's Governing Board adopted a policy, APR 2005, "Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency", for addressing GHG emission impacts when the District is Lead Agency under CEQA and approved the District's guidance document for use by other agencies when addressing GHG impacts as lead agencies under CEQA. Under this policy, the District's determination of significance of project-specific GHG emissions is founded on the principal that projects with GHG emission reductions consistent with AB 32 emission reduction targets are considered to have a less than significant impact on global climate change. Consistent with District Policy 2005, projects complying with an approved GHG emission reduction plan or GHG mitigation program, which avoids or substantially reduces GHG emissions within the geographic area in which the project is located, would be determined to have a less than significant individual and cumulative impact for GHG emission.

The California Air Resources Board (ARB) adopted a Cap-and-Trade regulation as part one of the strategies identified for AB 32. This Cap-and-Trade regulation is a statewide plan, supported by a CEQA compliant environmental review document, aimed at reducing or mitigating GHG emissions from targeted industries. Facilities subject to the Cap-and-Trade regulation are subject to an industry-wide cap on overall GHG emissions. Any growth in emissions must be accounted for under that cap such that a corresponding and equivalent reduction in emissions must occur to allow any increase. Further, the cap decreases over time, resulting in an overall decrease in GHG emissions.
Under District policy APR 2025, CEQA Determinations of Significance for Projects Subject to ARB’s GHG Cap-and-Trade Regulation, the District finds that the Cap-and-Trade is a regulation plan approved by ARB, consistent with AB32 emission reduction targets, and supported by a CEQA compliant environmental review document. As such, consistent with District Policy 2005, projects complying with Cap-and-Trade requirements are determined to have a less than significant individual and cumulative impact for GHG emissions.

The GHG emissions increases associated with this project result from the combustion of fossil fuel(s), other than jet fuel, delivered from suppliers subject to the Cap-and-Trade regulation. Therefore, as discussed above, consistent with District Policies APR 2005 and APR 2025, the District concludes that the GHG emissions increases associated with this project would have a less than significant individual and cumulative impact on global climate change.

District CEQA Findings

The District is the Lead Agency for this project because there is no other agency with broader statutory authority over this project. 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 expansion of the existing use. Furthermore, the District determined that the activity will not have a significant effect on the environment. Therefore, the District finds that the activity is categorically exempt from the provisions of CEQA pursuant to CEQA Guideline § 15301 (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)).

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.

IX. Recommendation

Compliance with all applicable rules and regulations is expected. Pending a successful NSR Public Noticing period, issue ATC S-2576-2-1 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>Annual Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-2576-2-1</td>
<td>3020-10-D</td>
<td>536 bhp IC engine</td>
<td>$551</td>
</tr>
</tbody>
</table>

Appendixes

A: Draft ATC
B: Current PTO
C: BACT Guideline & BACT Analysis
D: HRA Summary
E: SSPE1 Calculations
F: Quarterly Net Emissions Change
APPENDIX A:
DRAFT ATC
San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: S-2576-2-1
LEGAL OWNER OR OPERATOR: UNIVISION GROUP DBA KUVI TV 45
MAILING ADDRESS: 5801 TRUXTUN AVE
                    BAKERSFIELD, CA 93309
LOCATION: MT ADALEIDE TRANSMITTER SITE
           KERN COUNTY, CA

EQUIPMENT DESCRIPTION:
MODIFICATION OF A 536 BHP CATERPILLAR MODEL 3456 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE
POWERING AN ELECTRICAL GENERATOR: INCREASE THE AUTHORIZED DAILY USE

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, Ringelmann 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. (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. This engine shall be equipped with either a positive crankcase ventilation (PCV) system which recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201]

6. (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]

7. (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]

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.

Samir Sheikh, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308 • (661) 392-5500 • Fax (661) 392-5685
8. Emissions from this IC engine shall not exceed any of the following limits: 4.25 g-NOx/bhp-hr, 0.45 g-CO/bhp-hr, or 0.75 g-VOC/bhp-hr. [District Rules 2201, 4702 and 13 CCR 2423 and 17 CCR 93115]

9. The PM10 emissions rate shall not exceed 0.07 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423]

10. 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. 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]

12. 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]

13. 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]

14. 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 Rule 4702 and 17 CCR 93115]

15. 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]

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

17. 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]
APPENDIX B:
CURRENT PTO
PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

2. 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]

3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]

4. 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. This engine shall be equipped with either a positive crankcase ventilation (PCV) system which recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201]

6. 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]

7. 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]

8. Operation of this engine for all purposes combined shall not exceed 10 hours per day. [District Rules 2201 and 4102]

9. Emissions from this IC engine shall not exceed any of the following limits: 4.25 g-NOx/bhp-hr, 0.45 g-CO/bhp-hr, or 0.75 g-VOC/bhp-hr. [District Rules 2201, 4702 and 13 CCR 2423 and 17 CCR 93115]

10. The PM10 emissions rate shall not exceed 0.07 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423]

11. 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]

12. 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]

13. 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]
14. 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]

15. 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 Rule 4702 and 17 CCR 93115]

16. 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]

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

18. 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]

19. If this engine is located on the grounds of a K-12 school, or if this engine is located within 500 feet of the property boundary of a K-12 school, the engine shall not be operated for non-emergency purposes, including maintenance and testing, between 7:30 a.m. and 3:30 p.m. on days when school is in session. [17 CCR 93115]

20. If this engine is located on the grounds of a K-12 school, the engine shall not be operated for non-emergency purposes, including maintenance and testing, whenever there is a school sponsored activity. [17 CCR 93115]

These terms and conditions are part of the Facility-wide Permit to Operate.
APPENDIX C:
BACT GUIDELINE & BACT ANALYSIS
San Joaquin Valley
Unified Air Pollution Control District

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

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

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>
<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>3.5 (4.7)</td>
<td></td>
</tr>
<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></td>
<td>2008+</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></td>
<td>2008+</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></td>
<td>2008+</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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>600 ≤ HP ≤ 750 (450 ≤ kW ≤ 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></td>
<td>2008+</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>
<tr>
<td></td>
<td></td>
<td>2008+</td>
<td></td>
<td></td>
<td></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 536 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 will be the use of an EPA Tier 3 certified engine. The applicant is proposing such a unit. Therefore, BACT will be satisfied.
2. BACT Analysis for SOx Emissions:
   a. Step 1 - Identify all control technologies

   BACT Guideline 3.1.1 identifies only the following option:
   
   - **Very low sulfur diesel fuel (15 ppmw sulfur or less)**

   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 SOx is the use of very low sulfur diesel fuel (15 ppmw sulfur or less). The applicant is proposing the use of CARB certified diesel fuel that is rated at 15 ppmw sulfur or less. Therefore, BACT will be satisfied.
APPENDIX D:
HRA SUMMARY
San Joaquin Valley Air Pollution Control District
Risk Management Review

To: William Jones—Permit Services
From: Madison Perkins—Technical Services
Date: December 26, 2018
Facility Name: Univision Group
Location: Mount Adelaide Brecken Ridge Rd., Kern County
Application #(s): S-2576-2-1
Project #: S-1183926

A. RMR SUMMARY

<table>
<thead>
<tr>
<th>Categories</th>
<th>DICE 536 BHP (Unit 2-1)</th>
<th>Project Totals</th>
<th>Facility Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prioritization Score</td>
<td>N/A*</td>
<td>N/A*</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Acute Hazard Index</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Chronic Hazard Index</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Maximum Individual Cancer Risk</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>T-BACT Required?</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Permit Conditions?</td>
<td>No</td>
<td></td>
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</tr>
</tbody>
</table>

I. Project Description

Technical Services received a request on December, 16th, 2018, to perform a Ambient Air Quality Analysis (AAQA) for the increase in the daily hours of operation from 10hrs/day to 24 hrs./day for an existing emergency engine powering electric generator.

II. Analysis

*Technical Services reviewed the submitted AAQA request. After reviewing the request, APR 1920 does not require AAQA’s to be ran for intermittent sources for any standard besides the annual standard. Since there is no propose annual increase in emissions, an AAQA is not required.*

III. Conclusion

The proposed project will not contribute to the facility’s risk. In accordance with the District’s Risk Management Policy, the project is approved without Risk Management Review (RMR) or an Ambient Air Quality Analysis (AAQA).

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.
IV. *Attachments*

A. RMR request from the project engineer  
B. Additional information from the applicant/project engineer
APPENDIX E:
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>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>2576</td>
<td>2</td>
<td>0</td>
<td>251</td>
<td>10</td>
<td>4</td>
<td>27</td>
<td>44</td>
<td>0</td>
</tr>
</tbody>
</table>

**SSPE (lbs)**

|        |        | 251  | 10  | 4   | 27  | 44  |

### 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.
APPENDIX F:
QUARTERLY NET EMISSIONS CHANGE (QNEC)
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:

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

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

Using the values in Sections VII.C.2 and VII.C.1 in the evaluation above, quarterly PE2 and quarterly PE1 can be calculated as follows:

\[ \text{PE2}_{\text{quarterly}} = \frac{\text{PE2}_{\text{annual}}}{4 \text{ quarters/year}} \]
\[ \text{PE1}_{\text{quarterly}} = \frac{\text{PE1}_{\text{annual}}}{4 \text{ quarters/year}} \]

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PE2 (lb./qtr.)</th>
<th>PE1 (lb./qtr.)</th>
<th>QNEC (lb./qtr.)</th>
</tr>
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<tbody>
<tr>
<td>NO\textsubscript{x}</td>
<td>62.75</td>
<td>62.75</td>
<td>0</td>
</tr>
<tr>
<td>SO\textsubscript{x}</td>
<td>2.5</td>
<td>2.5</td>
<td>0</td>
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<tr>
<td>PM\textsubscript{10}</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>CO</td>
<td>6.75</td>
<td>6.75</td>
<td>0</td>
</tr>
<tr>
<td>VOC</td>
<td>11</td>
<td>11</td>
<td>0</td>
</tr>
</tbody>
</table>