



MAR 29 2012

John Rasmussen City of Atwater 750 Bellevue Rd Atwater, CA 95301-2898

Re:

Notice of Preliminary Decision - Authority to Construct

Project Number: N-1113614

Dear Mr. Rasmussen:

Enclosed for your review and comment is the District's analysis of City of Atwater's application for an Authority to Construct for installing a 1,214 bhp emergency standby diese-fired IC engine powering an electrical generator, at 621 Industry Way in Atwater.

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

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Rick Dver of Permit Services at (209)557-6458.

Sincerely.

David Warner

Director of Permit Services

DW:RJD/st

Enclosures

Seyed Sadredin

Executive Director/Air Pollution Control Officer

Southern Region





MAR 29 2012

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

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Sincerely,

David Warner

Director of Permit Services

DW:RJD/st

Enclosure

Seyed Sadredin Executive Oirector/Air Pollution Control Officer Merced Sun-Star Merced Sun-Star

NOTICE OF PRELIMINARY DECISION FOR THE PROPOSED ISSUANCE OF AN AUTHORITY TO CONSTRUCT

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Authority to Construct to City of Atwater for installing a 1,214 bhp emergency standby diese-fired IC engine powering an electrical generator, at 621 Industry Way in Atwater.

The analysis of the regulatory basis for this proposed action, Project #N-1113614, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. Written comments on this project must be submitted within 30 days of the publication date of this notice to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, REGION'S ADDRESS.

San Joaquin Valley Air Pollution Control District Authority to Construct Application Review Diesel-Fired Emergency Standby IC Engine

Facility Name: City of Atwater

Date: March 27, 2012

Mailing Address: 750 Belleview Road

Engineer: Rick Dyer

Atwater, CA 95301-2898

Lead Engineer: Nick Peirce

Contact Person: John Rasmussen (City of Atwater)

Telephone: 209-357-6347 Application #: N-8651-1-0 Project #: N1113614

Complete: December 28, 2011

I. Proposal

The City of Atwater is proposing to install a 1,214 bhp Caterpillar Model C27 diesel-fired emergency standby internal combustion (IC) engine powering an electrical generator that serves a municipal drinking water well.

II. Applicable Rules

Rule 2201	New and Modified	Stationary Source	Review Rule (4/	21/11)
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Rule 2520 Federally Mandated Operating Permits (6/21/01)

Rule 4001 New Source Performance Standards (4/14/99)

Rule 4002 National Emission Standards for Hazardous Air Pollutants (5/20/04)

Rule 4101 Visible Emissions (2/17/05)

Rule 4102 Nuisance (12/17/92)

Rule 4201 Particulate Matter Concentration (12/17/92)

Rule 4701 Stationary Internal Combustion Engines – Phase 1 (8/21/03)

Rule 4702 Stationary Internal Combustion Engines - Phase 2 (8/18/11)

Rule 4801 Sulfur Compounds (12/17/92)

CH&SC 41700 Health Risk Assessment

CH&SC 42301.6 School Notice

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

California Environmental Quality Act (CEQA)

Public Resources Code 21000-21177: California Environmental Quality Act (CEQA)

California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000-15387:

CEQA Guidelines

III. Project Location

The project is located at 621 Industry Way in Atwater, CA.

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

IV. Process Description

The 1,214 bhp engine powers an emergency standby electric generator, which is used to provide emergency electrical power to a new sewage pump station. Other than emergency operation, the engine may be operated up to 50 hours per year for maintenance and testing purposes.

V. Equipment Listing

N-8651-1-0: 1,214 BHP CATERPILLAR MODEL C27 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

VI. Emission Control Technology Evaluation

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

The proposed engine meets the latest Tier Certification requirements; 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 executive order).

The use of very low-sulfur diesel fuel (0.0015% by weight sulfur maximum) reduces SO_X 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):

Fuel heating value:

BHP to Btu/hr conversion:

Thermal efficiency of engine:

7.1 b/gal

9,051 dscf/MMBtu

137,000 Btu/gal

2,542.5 Btu/bhp-hr

commonly ≈ 35%

PM₁₀ fraction of diesel exhaust: 0.96 (CARB, 1988)

B. Emission Factors

Emission Factors				
Pollutant.	Emission Factor (g/bhp-hr)	Source 3		
NO _X	5.26	Engine Manufacturer		
SO _X	0.0051	Mass Balance Equation Below		
PM ₁₀	0.024	Engine Manufacturer		
CO	0.23	Engine Manufacturer		
VOC	0.03	Engine Manufacturer		

$$\frac{0.000015 \ lb - S}{lb - fuel} \times \frac{7.1 \ lb - fuel}{gallon} \times \frac{2 \ lb - SO_2}{1 \ lb - S} \times \frac{2 \ lb - SO_2}{137,000 \ Btu} \times \frac{1 \ bhp \ input}{0.35 \ bhp \ out} \times \frac{2,542.5 \ Btu}{bhp - hr} \times \frac{453.6 \ g}{lb} = 0.0051 \qquad \frac{g - SO_x}{bhp - hr}$$

C. Calculations

1. Pre-Project Emissions (PE1)

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

2. Post-Project PE (PE2)

The daily and annual PE are calculated as follows:

 $PE_{daily} = (EF)(Engine bhp)(Operating hr/day)(1lb/453.6 g)$

 $PE_{annual} = (EF)(Engine bhp)(Operating hr/yr)(1lb/453.6 g)$

10 1 640 North - 10 to 1	Project Emissions (PE2)					
Pollutant	Emissions Factor (g/bhp-hr)	Rating (bhp)	Daily Hours of Operation (hrs/day)	Annual Hours of Operation (hrs/yr)	Daily PE2 (lb/day)	Annual PE2 (lb/yr)
NO _X	5.26	1,214	24	50	337.9	704
SO _X	0.0051	1,214	24	50	0.3	1
PM ₁₀	0.024	1,214	24	50	1.5	3
CO	0.23	1,214	24	50	14.8	31
VOC	0.03	1,214	24	50	1.9	4

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

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

SSPE1 = 0 lb/yr for all criteria pollutants

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

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

For this project the change in emissions for the facility is due to the installation of the new emergency standby IC engine, permit unit -2-0. Thus:

		SSPE2			
Permit Unit	NO _X (lb/yr)	SO _X (lb/yr)	PM ₁₀ (lb/yr)	CO (lb/yr)	VOC (lb/yr)
SSPE1	0	0	0	0	0
N-8651-1-0	704	1	. 3	31	4
SSPE2 Total	704	1	3	31	4
Offset Threshold	20,000	54,750	29,200	200,000	20,000
Offset Threshold Surpassed?	No	No	No	No	No

5. Major Source Determination

Pursuant to Section 3.23 of District Rule 2201, a Major Source is a stationary source with post project emissions or a Post Project Stationary Source Potential to Emit (SSPE2), equal to or exceeding one or more of the following threshold values. However, Section 3.24.2 states, "for the purposes of determining major source status, the SSPE2 shall not include the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual

Emissions Reductions that have occurred at the source, and which have not been used on-site."

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

		Major S	ource Determir	ation	
Pollutant	SSPE1 (lb/yr)	SSPE2 (lb/yr)	Major Source Tihreshold! (lb/yr)	Existing Major Source?	Becoming a Major Source?
NO _x	0	704	20,000	No	No
SO _x	0	1	140,000	No	No
PM ₁₀	0	3	140,000	No	No
, co	0	31	200,000	No	No.
VOC	0	. 4	20,000	No	No

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

6. Baseline Emissions (BE)

BE = Pre-project Potential to Emit for:

- Any unit located at a non-Major Source,
- Any Highly-Utilized Emissions Unit, located at a Major Source,
- Any Fully-Offset Emissions Unit, located at a Major Source, or
- Any Clean Emissions Unit, located at a Major Source.

otherwise,

BE = Historic Actual Emissions (HAE), calculated pursuant to Section 3.22

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

7. SB 288 Major Modification

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

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

8. Federal Major Modification

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

Since this facility is not a Major Source for any pollutants, this project does not constitute a Federal Major Modification.

9. Quarterly Net Emissions Change (QNEC)

The QNEC is calculated solely to establish emissions that are used to complete the District's PAS emissions profile screen.

QNEC =
$$(PE2 - BE) \div 4$$
, where:

QNEC = Quarterly Net Emissions Change for each emissions unit, lb/yr.

PE2 = Post Project Potential to Emit for each emissions unit, lb/yr.

BE = Baseline Emissions (per Rule 2201) for each emissions unit, lb/yr.

For this application:

 $QNEC_{NOx} = (704 lb-NO_x/yr - 0 lb-NO_x/yr) + 4 = 176 lb/qtr$

 $QNEC_{SOx} = (1 lb-SO_x/yr - 0 lb-SO_x/yr) \div 4 = 0.25 lb/qtr$

 $QNEC_{PM10} = (3 lb-PM_{10}/yr - 0 lb-PM_{10}/yr) + 4 = 0.75 lb/qtr$

 $QNEC_{CO} = (31 \text{ lb-CO/yr} - 0 \text{ lb-CO/yr}) + 4 = 7.75 \text{ lb/qtr}$

QNEC_{VOC} = $(4 \text{ lb-VOC/yr} - 0 \text{ lb-VOC/yr}) \div 4 = 1 \text{ lb/qtr}$

Employed Live	QNEC (lb/qtr)						
(1) 1/2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Quarter 1	Quarter 2	™Quarter 3	Quarter 4			
NOx 🕦	176	176	176	176			
SOx	0	0	0	1			
PM ₁₀	0	. 1	1	. 1			
CO	7	8	8	8			
VOC	1	1	. 1	1			

VIII. Compliance

Rule 2201 New and Modified Stationary Source Review Rule

A. Best Available Control Technology (BACT)

1. BACT Applicability

BACT requirements are triggered on a pollutant-by-pollutant basis and on an emissions unit-by-emissions unit basis for the following*:

- a) Any new emissions unit with a potential to emit exceeding 2.0 pounds per day,
- b) The relocation from one Stationary Source to another of an existing emissions unit with a potential to emit exceeding 2.0 pounds per day,
- c) Modifications to an existing emissions unit with a valid Permit to Operate resulting in an AIPE exceeding 2.0 pounds per day, and/or
- d) Any new or modified emissions unit, in a stationary source project, which results in a Major Modification.

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

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

The daily emissions from the new engine are compared to the BACT threshold levels in the following table:

	/∷ New Emis	ssions Unit BACT/App	licability -	
Pollutant	Daily Emissions for unit -1-0 (lb/day)	BACT Threshold (lb/day)	SSPE2 (lb/yr)	BACT. Triggered?
NO _X	337.9	> 2.0	n/a	Yes
SO _X	0.3	> 2.0	n/a	No
PM ₁₀	1.5	> 2.0	n/a	No
со	14.8	> 2.0 and SSPE2 ≥ 200,000 lb/yr	0	No
VOC	1.9	> 2.0	n/a	No .

As shown above, BACT will be triggered for NO_X emissions from the engine for this project.

2. BACT Guideline

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

3. Top Down BACT Analysis

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

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

NO_X: Latest EPA Tier Certification level for applicable horsepower range

B. Offsets

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

C. Public Notification

1. Applicability

Public noticing is required for:

a. New Major Sources, SB288 Major Modifications, 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, not an SB 288 Major Modification, and not a Federal Major Modification, respectively.

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 NO_X are greater than 100 lb/day and public noticing is triggered.

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

As shown in Section VII.C.4, an offset threshold will not be surpassed.

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 source 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.

For this project, the proposed engine is the only emissions source 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.

2. Public Notice Action

As demonstrated above, this project will require public noticing. Therefore, public notice documents will be submitted to the California Air Resources Board (CARB) and a public notice will be published in a local newspaper of general circulation prior to the issuance of the ATC for this equipment.

D. Daily Emissions Limits

Daily Emissions Limitations (DELs) and other enforceable conditions are required by Section 3.16 to restrict a unit's maximum daily emissions, to a level at or below the emissions associated with the maximum design capacity. Per Sections 3.16.1 and 3.16.2, the DEL must be contained in the latest ATC and contained in or enforced by the latest PTO and enforceable, in a practicable manner, on a daily basis. Therefore, the following conditions will be listed on the ATC to ensure compliance:

- Emissions from this IC engine shall not exceed any of the following limits:
 5.26 g-NOx/bhp-hr, 0.23 g-CO/bhp-hr, or 0.03 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93115]
- Emissions from this IC engine shall not exceed 0.024 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 17 CCR 93115]
- 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 Rule 2201.

2. Monitoring

No monitoring is required to demonstrate compliance with Rule 2201.

3. Recordkeeping

Recordkeeping requirements, in accordance with District Rule 4702, will be discussed in Section VIII, District Rule 4702, of this evaluation.

4. Reporting

No reporting is required to ensure compliance with Rule 2201.

F. Ambient Air Quality Analysis (AAQA)

Section 4.14.1 of this Rule requires that an ambient air quality analysis (AAQA) be conducted for the purpose of determining whether a new or modified Stationary Source will cause or make worse a violation of an air quality standard. The Technical Services Division of the SJVAPCD conducted the required analysis.

As shown by the AAQA summary sheet in Appendix C, the proposed equipment will not cause or make worse a violation of an air quality standard for NO_X , CO, PM10, or SO_X .

Rule 2520 Federally Mandated Operating Permits

Since this facility's potential to emit does not exceed any major source thresholds of Rule 2201, this facility is not a major source, and Rule 2520 does not apply.

Rule 4001 New Source Performance Standards (NSPS)

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

Pursuant to § 60.4200 of Subpart IIII, this engine is subject to this federal regulation. However, the District has not been delegated authorization to enforce the requirements of this regulation. The applicant will be so notified in a permit condition.

Rule 4002 National Emission Standards for Hazardous Air Pollutants

40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Emissions (RICE)

Pursuant to § 63.6585 of Subpart ZZZZ, this engine is subject to this federal regulation. However, the District has not been delegated authorization to enforce the requirements of 40 CFR 63 Subpart ZZZZ for non-Part 70 sources (Major Sources). The applicant will be so notified in a permit condition.

Rule 4101 Visible Emissions

Rule 4101 states that no air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark

as, or darker than, Ringelmann 1 or 20% opacity. Therefore, the following condition will be listed on the ATC to ensure compliance:

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

Rule 4102 Nuisance

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

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

California Health & Safety Code 41700 (Health Risk Assessment)

District Policy APR 1905 - Risk Management Policy for Permitting New and Modified Sources (dated 3/2/01) specifies that for an increase in emissions associated with a proposed new source or modification, the District perform an analysis to determine the possible impact to the nearest resident or worksite. Therefore, a risk management review (RMR) was performed for this project. The RMR results are summarized in the following table, and can be seen in detail in Appendix C.

	RMR Summary				
Categories	Diesel-Fired IC Engine (Unit 1-0)	Project Totals	Facility Totals		
Prioritization Score	N/A ¹	N/A ¹	N/A ¹		
Acute Hazard Index	N/A ²	: N/A²	N/A ²		
Chronic Hazard Index	N/A ²	N/A ²	N/A²		
Maximum Individual Cancer Risk	2.2 E-07	2.2 E-07	2.2 E-07		
T-BACT Required?	No				
Special Permit Conditions?	Yes				

¹ Prioritization for this unit was not conducted since it has been determined that all diesel-fired IC engines will result in a prioritization score greater than 1.0.

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

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

² Acute and Chronic Hazard Indices were not calculated since there is no risk factor, or the risk factor is so low that the risk has been determined to be insignificant for this type of unit.

- Emissions from this IC engine shall not exceed 0.024 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 17 CCR 93115]
- 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 4701 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.

$$0.1 \quad \frac{grain - PM}{dscf} \times \frac{g}{15.43 grain} \times \frac{1 Btu_{in}}{0.35 Btu_{out}} \times \frac{9,051 dscf}{10^6 Btu} \times \frac{2,542.5 Btu}{1 bhp - hr} \times \frac{0.96 g - PM_{10}}{1 g - PM} = 0.4 \frac{g - PM_{10}}{bhp - hr}$$

The new engine has a PM₁₀ emission factor less than 0.4 g/bhp-hr. Therefore, compliance is expected and the following condition will be listed on the ATC:

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

Rule 4701 Internal Combustion Engines - Phase 1

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

Rule 4702 Internal Combustion Engines – Phase 2

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

District Rule 4702 Requirements Emergency Standby IC Engines	Proposed Method of Compliance with District Rule 4702 Requirements
Operation of emergency standby engines	
is limited to 100 hours or less per	The Air Toxic Control Measure for Stationary
calendar year for non-emergency	Compression Ignition Engines (Stationary ATCM)
purposes, verified through the use of a	limits this engine maintenance and testing to 50
non-resettable elapsed operating time	hours/year. Thus, compliance is expected.
meter.	

District Rule 4702 Requirements Emergency Standby IC Engines	Proposed Method of Compliance with District Rule 4702 Regulrements
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 Rules 4701 and 4702] {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 Rules 4701 and 4702]
The owner/operator must operate and maintain the engine(s) and any installed control devices according to the manufacturers written instructions.	A permit condition enforcing this requirement was shown earlier in the evaluation.
The owner/operator must monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier.	 The following condition will be included on the permit: 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 Rules 4701 and 4702]
Records of the total hours of operation of the emergency standby engine, type of fuel used, purpose for operating the engine, all hours of non-emergency and emergency operation, and support documentation must be maintained. 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 Requirements Emergency Standby IC Engines		Proposed Method of Compliance with District Rule 4702 Requirements
		[District Rules 4701 and 4702 and 17 CCR 93115]
	•	The permittee shall maintain monthly records of the type of fuel purchased. [District Rules 4701 and 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 Rules 4701 and 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:

Volume
$$SO_2 = (n \times R \times T) \div P$$

 $n = moles SO_2$
T (standard temperature) = 60 °F or 520 °R
R (universal gas constant) = $\frac{10.73 \, psi \cdot ft^3}{lb \cdot mol \cdot °R}$

$$\frac{0.000015 \ lb - S}{lb - fuel} \times \frac{7.1 \ lb}{gal} \times \frac{64 \ lb - SO_2}{32 \ lb - S} \times \frac{1 \ MMBtu}{9,051 \ scf} \times \frac{1 \ gal}{0.137 \ MMBtu} \times \frac{1 \ b - mol}{64 \ lb - SO_2} \times \frac{10.73 \ psi - ft^3}{lb - mol - °R} \times \frac{520 \ R}{14.7 \ psi} \times 1,000,000 = 1.0 \ ppmv$$

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 to ensure compliance:

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

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 table demonstrates how the proposed engine will comply with the requirements of Title 17 CCR Section 93115.

Title 17 CCR Section 93115 Requirements for New Emergency IC Engines Powering Electrical Generators	Proposed Method of Compliance with Title 17 CCR Section 93115 Requirements
Emergency engine(s) must be fired on CARB diesel fuel, or an approved alternative diesel fuel.	The applicant has proposed the use of CARB certified diesel fuel. The proposed permit condition, requiring the use of CARB certified diesel fuel, was included earlier in this evaluation.
The engine(s) must emit diesel PM at a rate less than or equal to 0.15 g/bhp-hr.	The proposed diesel PM emissions rate is less than or equal to 0.15 g/bhp-hr.
The engine may not be operated more than 50 hours per year for maintenance and testing purposes.	 The following condition will be included on the permit: 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 4701 and 4702 and 17 CCR 93115]
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	The District has verified that this engine is not located within 500' of a school.
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.	Permit conditions enforcing these requirements were shown earlier in the evaluation.

California Environmental Quality Act (CEQA)

The California Environmental Quality Act (CEQA) requires each public agency to adopt objectives, criteria, and specific procedures consistent with CEQA Statutes and the CEQA Guidelines for administering its responsibilities under CEQA, including the

orderly evaluation of projects and preparation of environmental documents. The San Joaquin Valley Unified Air Pollution Control District (District) adopted its *Environmental Review Guidelines* (ERG) in 2001.

The basic purposes of CEQA are to:

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

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

The State Legislature granted a number of exemptions from CEQA, including projects that require only ministerial approval. Based upon analysis of its own laws and consideration of CEQA provisions, the District has identified a limited number of District permitting activities considered to be ministerial approvals. As set forth in §4.2.1 of the ERG, projects permitted consistent with the District's *Guidelines for Expedited Application Review* (GEAR) are standard application reviews in which little or no discretion is used in issuing Authority to Construct (ATC) documents.

For the proposed project, the District performed an Engineering Evaluation (this document) and determined that the project qualifies for processing under the procedures set forth in the District's Permit Services Procedures Manual in the Guidelines for Expedited Application Review (GEAR). Thus, as discussed above, this issuance of such ATC(s) is a ministerial approval for the District and is not subject to CEQA provisions.

On December 17, 2009, the District's Governing Board adopted the first comprehensive regional policy and guidance on addressing and mitigating GHG emission impacts caused by industrial, commercial, and residential development in the San Joaquin Valley. The adopted District policy — Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency applies to projects for which the District has discretionary approval authority over the project and serves as

the lead agency for CEQA purposes. The policy relies on the use of performance based standards, otherwise known as Best Performance Standards (BPS) to assess significance of project specific greenhouse gas emissions on global climate change during the environmental review process, as required by CEQA.

Use of BPS is a method of streamlining the CEQA process of determining significance and is not a required emission reduction measure. However, consistent with the District's objective to achieve the GHG emission reduction targets established pursuant to AB 32, BPS will be incorporated into the District's GEAR application review process. In the interim, projects meeting the existing GEAR requirements will continue to be processed as ministerial approvals.

IX. Recommendation

Pending successful School Noticing and NSR Public Noticing periods, issue Authority to Construct N-8651-1-0, subject to the permit conditions on the attached draft Authority to Construct in Appendix A.

X. Billing Information

	Billin	ng Schedule	
Permit Number	Fee Schedule	Fee Description	Fee Amount
N-8651-1-0	3020-10-F	1,214 bhp IC engine	\$749.00

Appendixes

- A. Draft ATC
- B. BACT Guideline and BACT Analysis
- C. RMR Summary

Appendix A

Draft ATC

San Joaquin Valley Air Pollution Control District

AUTHORITY TO CONSTRUCT

PERMIT NO: N-8651-1-0

LEGAL OWNER OR OPERATOR: CITY OF ATWATER

MAILING ADDRESS:

750 BELLEVUE RD

ATWATER, CA 95301-2898

LOCATION:

621 INDUSTRY WAY ATWATER, CA 95301

EQUIPMENT DESCRIPTION:

1,214 BHP CATERPILLAR MODEL C27 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

CONDITIONS

- 1. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
- 2. {14} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
- 3. {15} No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
- 4. {1898} The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
- 5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115]
- 6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rules 4701 and 4702 and 17 CCR 93115]
- 7. Emissions from this IC engine shall not exceed any of the following limits: 5.26 g-NOx/bhp-hr, 0.23 g-CO/bhp-hr, or 0.03 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93115]
- 8. Emissions from this IC engine shall not exceed 0.024 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115]
- 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]

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all-other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Directory APCO

DAVID WARNER, Director of Permit Services

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Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

- 10. 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 Rules 4701 and 4702]
- 11. 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 4701 and 4702 and 17 CCR 93115]
- 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 Rules 4701 and 4702]
- 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 Rules 4701 and 4702]
- 14. 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 Rules 4701 and 4702 and 17 CCR 93115]
- 15. The permittee shall maintain monthly records of the type of fuel purchased. [District Rules 4701 and 4702 and 17 CCR 93115]
- 16. 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 Rules 4701 and 4702 and 17 CCR 93115]
- 17. U.S. EPA administers the requirements of 40 CFR Part 60 Subpart IIII and 40 CFR Part 63 Subpart ZZZZ. The owner or operator shall comply with the emission and operating limitations, testing requirements, initial and continuous compliance requirements as specified in these subparts. The owner or operator shall submit all applicable notifications, reports, and records to the administrator by the required compliance dates. [District Rules 4001 and 4002]



Appendix B

BACT Guideline and BACT Analysis

San Joaquin Valley Unified Air Pollution Control District

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

Pollutant	Achieved in Practice or in the Technologically Feasible Alternate Basic Equipment
СО	Latest EPA Tier Certification level for applicable horsepower range
NOX	Latest EPA Tier Certification level for applicable horsepower range
PM10	0.15 g/bhp-hr or the Latest EPA Tier Certification level for applicable horsepower range, whichever is more stringent. (ATCM)
sox	Vêry low sulfur diesel fuel (15. ppmw.sulfur or less)
VOC	Latest EPA Tier Certification level for applicable horsepower range

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 (July 10, 2009) 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 NO_X 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 60 Subpart IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- 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 and 40 CFR Part 60 Subpart IIII apply directly to the proposed emergency engine(s).

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). Please note that these levels are at least as stringent or more stringent than the emission levels in 40 CFR Subpart IIII.

Table 1: Emission Standards for New Stationary Emergency Standby Diesel-Fueled Cl Engines g/bhp-hr (g/kW-hr)					
Maximum Engine Power	Tier	Model Year(s)	PM	NMHC+NOx	со
50 ≤ HP < 75	2	2007	0.15 (0.20)	5.6 (7.5)	3.7 (5.0)
(37 ≤ kW < 56)	4i	2008+	0.15 (0.20)	3.5 (4.7)	
75 ≤ HP < 100	2	2007	0.15 (0.20)	5.6 (7.5)	3.7 (5.0)
<u>(</u> 56 ≤ kW < 75)	3	2008+	7. 0.13 (0.20)	3.5 (4.7)	
100 ≤ HP < 175	3	2007	0.15 (0.20)	3.0 (4.0)	3.7 (5.0)
(75 ≤ kW < 13 <u>0</u>)		2008+	0.15 (0.20)	3.0 (4.0)	
175 ≤ HP < 300	3	2007	0.15 (0.20)	3.0 (4.0)	2.6 (3.5)
(130 ≤ kW < 225)	3	2008+	0.15 (0.20)	3.0 (4.0)	2.0 (3.3)
300 ≤ HP < 600	3	2007	0.15 (0.20)	3.0 (4.0)	2.6 (3.5)
(225 ≤ kW < 450)	3	2008+	0.13 (0.20)	3.0 (4.0)	
600 ≤ HP <u><</u> 750	3	2007	0.15 (0.20)	3.0 (4.0)	2.6 (3.5)
$(450 \le kW \le 560)$	3	2008+	0.15 (0.20)	3.0 (4.0)	2.0 (3.5)
HP > 750	2	2007	0.45 (0.20)	F (0.20) 4.9.(6.4)	26 (25)
(kW > 560)	2	2008+	0.15 (0.20)	4.8 (6.4)	2.6 (3.5)

Additionally, 40 CFR Subpart IIII establishes emission standards for emergency diesel IC engines. These emission standards are the same as those specified in the CARB ATCM, except for engines rated greater than or equal to 50 and less than 75 hp. For such IC engines, the CARB ATCM is more stringent.

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 1,214 bhp. Therefore, the applicable control technology option is EPA Tier 2 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 NO_x will be the use of an EPA Tier 2 certified engine. The applicant is proposing such a unit. Therefore, BACT will be satisfied.

Appendix C
RMR Summary

San Joaquin Valley Air Pollution Control District Risk Management Review

To:

Rick Dyer - Permit Services

From:

Cheryl Lawler - Permit Services

Date:

March 26, 2012

Facility Name:

City of Atwater

Location:

621 Industry Way, Atwater

Application #(s):

N-8651-1-0

Project #:

N-1113614

A. RMR SUMMARY

RMR Summary				
Categories	Emergency Diesel ICE (Unit 1-0)	Project Totals	Facility Totals	
Prioritization Score	N/A ¹	N/A ¹	>1	
Acute Hazard Index	N/A ²	N/A ²	0.00	
Chronic Hazard Index	N/A ²	N/A ²	0.00	
Maximum Individual Cancer Risk	2.2E-07	2.2E-07	2.2E-07	
T-BACT Required?	No	建设等的	CONTRACTOR	
Special Permit Conditions?	Yes			

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.

Proposed Permit Conditions

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

Unit 1-0

- The PM10 emissions rate shall not exceed 0.024 g/bhp-hr based on US EPA certification using ISO 8178 test procedure. [District Rules 2201]
- 2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
- 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]

² Acute and Chronic Hazard Indices were not calculated since there is no risk factor, or the risk factor is so low that the risk has been determined to be insignificant for this type of unit.

B. RMR REPORT

Project Description

Technical Services received a request on February 3, 2012, to perform an Ambient Air Quality Analysis (AAQA) and a Risk Management Review (RMR) for a 1214 bhp emergency diesel-fired internal combustion engine.

II. **Analysis**

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

The following parameters were used for the review:

Analysis Parameters Unit 1-0			
Source Type	Point	Location Type	Urban
ВНР	1214	PM ₁₀ g/hp-hr	0.024
Closest Receptor (m)	128	Quad	2
Max Hours per Year	50	Type of Receptor	Business

Technical Services also performed modeling for criteria pollutants NOx, SOx, PM₁₀, and PM_{2.5}; as well as a RMR. The emission rates used for criteria pollutant modeling were 704 lb/yr NOx, 1 lb/yr SOx, 3 lb/yr PM₁₀, and 3 lb/yr PM_{2.5}. The engineer supplied the maximum fuel rate for the IC engine used during the analysis.

The results from the Criteria Pollutant Modeling are as follows:

Criteria Pollutant Modeling Results*

ĺ	Diesel ICE	1 Hour	3 Hours	8 Hours	24 Hours	Annual
	CO	L NA	Х	MILLINA!	X	Χ,
	NO _x	AN NA	X	X	X	⊮ ∄Pass⊯∥
	SO _x	以即NA M系列	NA.	X	NA S	∴ APass ↓ iii
	PM ₁₀	X	` X	Х	NA ^N	Pass ²
	PM _{2.5}	X	X	X	NA NA L	Pass ²

^{*}Results were taken from the attached PSD spreadsheet.

III. Conclusions

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

The cancer risk associated with the operation of the proposed diesel IC engine 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 (T-BACT) for PM10.

¹The project is an intermittent source as defined in APR-1920. In accordance with APR-1920, compliance with shortterm (i.e., 1-hour, 3-hour, 8-hour, and 24-hour) standards is not required.

The criteria pollutants are below EPA's level of significance as found in 40 CFR Part 51.165 (b)(2).

City of Atwater, N-8651, N-1113614 Page 3 of 3

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

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