



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

April 18, 2012

Mr. Gerardo Rios (R9Airpermits\_sc@epa.gov)  
Chief, Permits Office  
US EPA, Region IX- Air 3.  
75 Hawthorne Blvd.  
San Francisco, CA 94105

Subject: Title V Permit Revision, U.S. Govt., Veterans Admin. Med. Center, ID 5679

Dear Mr. Rios:

U.S Govt., Veterans Admin. Medical Center has proposed to revise their Title V permit under application no. 529700 by adding one emergency engine. This is a medical facility (NAICS 622110) located at 16111 Plummer Street, North Hills, CA 91343. This proposed permit revision is considered as a "de minimis significant permit revision" to their Title V permit. Attached for your review are the evaluation and section D of the Facility permit for the proposed revision. With your receipt of the proposed Title V permit revision today, we will note that the EPA 45-day review period will begin on April 18, 2012.

If you have any questions concerning these changes, please call the permit processing engineer Mr. Roy Olivares at (909) 396-2208.

Very truly yours,

A handwritten signature in black ink, appearing to read "Brian L. Yeh".

Brian L. Yeh  
Senior Manager  
Mechanical, Chemical and Public Services  
Engineering and Compliance

BLY:AYL:JTY:rdo  
Enclosure

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

**Facility Equipment and Requirements  
(Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, copies of all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

**FACILITY PERMIT TO OPERATE  
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**PERMITTED EQUIPMENT LIST**

The following is a list of all permits to construct and permits to operate at this facility:

<b>Application number</b>	<b>Permit number</b>	<b>Equipment description</b>
117461	M38474	I C E (>500 HP) EM ELEC GEN-DIESEL
197557	M96612	SERV STAT STORAGE & DISPENSING GASOLINE
309912	F6507	BOILER (5-20 MMBTU/HR) COMB GAS-DISTILL
309913	F6508	BOILER (5-20 MMBTU/HR) COMB GAS-DISTILL
309914	F6509	BOILER (5-20 MMBTU/HR) COMB GAS-DISTILL
311580	D97902	STORAGE TANK PRESSURE TANK LPG
311582	D97903	STORAGE TANK PRESSURE TANK LPG
367370	F27913	I C E (50-500 HP) EM ELEC GEN-DIESEL
367365	F36085	I C E (>500 HP) EM ELEC GEN-DIESEL
367369	F36086	I C E (50-500 HP) EM ELEC GEN-DIESEL
367367	F36090	I C E (>500 HP) EM ELEC GEN-DIESEL
378209	F36218	I C E (>500 HP) EM ELEC GEN-DIESEL
383298	F42606	I C E (50-500 HP) EM ELEC GEN-DIESEL
531971	G	BOILER (5-20 MMBTU/HR) COMB GAS-DISTILL
531973	G	BOILER (5-20 MMBTU/HR) COMB GAS-DISTILL
531975	G	BOILER (5-20 MMBTU/HR) COMB GAS-DISTILL
529701	G	I C E (50-500 HP) EM ELEC GEN-DIESEL

**NOTE:** EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

**FACILITY WIDE CONDITION(S)**

**Condition(s):**

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMIN FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:
  - A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGELMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
  - B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION. (RULE 401)
2. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.  
[RULE 431.2]
3. THE OPERATOR SHALL NOT PURCHASE ANY DIESEL FUEL UNLESS THE FUEL IS LOW SULFUR DIESEL FOR WHICH THE SULFUR CONTENT SHALL NOT EXCEED 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER  
[RULE 431.2]
3. THE OPERATOR SHALL NOT USE NATURAL GAS CONTAINING SULFUR COMPOUNDS, CALCULATED AS H<sub>2</sub>S, IN EXCESS OF 16 PARTS PER MILLION BY VOLUME (PPMV). THE OPERATOR SHALL NOT USE OTHER GASEOUS FUELS CONTAINING SULFUR COMPOUNDS, CALCULATED AS H<sub>2</sub>S, IN EXCESS OF 40 PPMV AS MEASURED OVER 4 HOURS AVERAGING PERIOD.  
[RULE 431.1]

## **FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR**

### **PERMIT TO OPERATE**

**Permit No. M38474  
A/N 117461**

#### **Equipment Description:**

INTERNAL COMBUSTION ENGINE, COMPRESSION IGNITION, TURBOCHARGED, GENERAL MOTORS, MODEL 16-645-E4, SERIAL NO. 73MI-1056, 3000 HP, DIESEL FUEL FIRED, DRIVING A 2000 KW STANDBY ELECTRIC GENERATOR.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[204]
3. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARTED RELATIVE TO STANDARD TIMING.  
[RULE 1303 (a)(1)-BACT]
4. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]
5. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.  
[RULE 1303 (a)-BACT]
6. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT.  
[RULE 1470]
7. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE.  
[RULE 1110.2, RULE 1303 (a), RULE 1304 (a)(4), RULE 1470]
8. OPERATING BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE

## **FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR**

UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.  
[RULE 1470]

9. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1303 (b)(2), RULE 1470]
10. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.  
[RULE 1304 (a)(4), RULE 1470]
11. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED, DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS:
  - a. EMERGENCY USE.
  - b. MAINTENANCE AND TESTING.
  - c. OTHER (DESCRIBE THE REASON FOR OPERATING).
  - d. IN ADDITION, EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION.  
[RULE 1303 (b)(2), RULE 1470]
12. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG THE FOLLOWING:

THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND

THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.

THE ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.  
[RULE 1303 (b)(2)]

### **Emissions And Requirements:**

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1470

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

**PERMIT TO OPERATE**

**Permit No. M96612  
A/N 197557**

**Equipment Description:**

FUEL STORAGE AND DISPENSING FACILITY CONSISTING OF:

1. ONE ABOVEGROUND GASOLINE STORAGE TANK 1000 GALLON CAPACITY, NOT METHANOL COMPATIBLE.
2. ONE GASOLINE DISPENSING NOZZLE VENTED TO VAPOR RECOVERY SYSTEM.
3. ONE ABOVEGROUND DIESEL STORAGE TANK 500 GALLON CAPACITY, NOT METHANOL COMPATIBLE.
4. ONE DIESEL DISPENSING NOZZLE.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. EXCEPT FOR DIESEL TRANSFERS, PHASE I AND PHASE II VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER THIS FACILITY IS IN USE. SUCH SYSTEMS SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEET ALL CARB CERTIFICATION REQUIREMENTS.  
[RULE 461]

**Periodic Monitoring:**

4. THE OPERATOR SHALL IMPLEMENT A DISTRICT-APPROVED SELF-COMPLIANCE PROGRAM IN ACCORDANCE WITH THE REQUIREMENTS OF RULE 461 (D).  
[RULE 461, RULE 3004 (a)(4)]
5. THE OPERATOR SHALL CONDUCT AND SUCCESSFULLY PASS THE APPLICABLE PERFORMANCE AND/OR REVERIFICATION TEST(S) IN ACCORDANCE WITH THE REQUIREMENTS OF RULE 461 (E).  
[RULE 461, RULE 3004 (a)(4)]

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**Emissions And Requirements:**

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 461

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

**PERMIT TO OPERATE**

**Permit No. F6507  
A/N 309912**

**Equipment Description:**

BOILER NO. 1, SUPERIOR MOHAWK, MODEL NO. 4X-2007-S200, WITH A 16,800,000 BTU PER HOUR LOW NOX INDUSTRIAL COMBUSTION BURNER, MODEL NO. LNDLG-210-P, NATURAL GAS OR PROPANE FIRED.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS BOILER SHALL BE FIRED ON NATURAL GAS ONLY EXCEPT DURING PERIODS OF NATURAL GAS CURTAILMENT, DURING MAINTENANCE TESTING OF THE BURNER NOT TO EXCEED 30 MINUTES PER MONTH, OR DURING COMPLIANCE TESTING.  
[RULE 1303(a)(1)-BACT]
4. BOILER EMISSIONS SHALL NOT EXCEED 30 PPM FOR OXIDES OF NITROGEN (NOX) AND 400 PPM OF CARBON MONOXIDE (CO), MEASURED BY VOLUME, ON A DRY BASIS, AT 3% O<sub>2</sub>.  
[RULE 1146, RULE 1303(a)(1)-BACT]
5. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH SOURCE TESTING REQUIREMENTS IN SUBDIVISION (d)(6)--COMPLIANCE DETERMINATION OF RULE 1146.
6. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH PERIODIC MONITORING REQUIREMENTS OF RULE 1146 (c)(8).
7. RETAIN ALL RECORDS REQUIRED BY PERMIT FOR A PERIOD OF FIVE YEARS AND MAKE ALL RECORDS AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

**Emissions And Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPM, RULE 407  
CO: 400 PPM, RULE 1146

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

NOx: 30 PPMV, NATURAL GAS, RULE 1146, RULE 1303(a)(1)-BACT  
NOx; 9 PPMV, NATURAL GAS, RULE 1146, EFFECTIVE 1/1/2012  
NOX: 40 PPMV, FUEL OIL, RULE 1146  
PM: 0.1 GR/SCF, RULE 409

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

**PERMIT TO OPERATE**

**Permit No. F6508  
A/N 309913**

**Equipment Description:**

BOILER NO. 2 SUPERIOR MOHAWK, MODEL NO. 4X-2007-S200, WITH A 16,800,000 BTU PER HOUR LOW NOX INDUSTRIAL COMBUSTION BURNER, MODEL NO. LNDLG-210-P, NATURAL GAS OR PROPANE FIRED.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS BOILER SHALL BE FIRED ON NATURAL GAS ONLY EXCEPT DURING PERIODS OF NATURAL GAS CURTAILMENT, DURING MAINTENANCE TESTING OF THE BURNER NOT TO EXCEED 30 MINUTES PER MONTH, OR DURING COMPLIANCE TESTING.  
[RULE 1303(a)(1)-BACT]
4. BOILER EMISSIONS SHALL NOT EXCEED 30 PPM FOR OXIDES OF NITROGEN (NOX) AND 400 PPM OF CARBON MONOXIDE (CO), MEASURED BY VOLUME, ON A DRY BASIS, AT 3% O<sub>2</sub>.  
[RULE 1146, 1303(a)(1)-BACT]
5. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH SOURCE TESTING REQUIREMENTS IN SUBDIVISION (d)(6)—COMPLIANCE DETERMINATION OF RULE 1146.
6. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH PERIODIC MONITORING REQUIREMENTS OF RULE 1146 (c)(8).
7. RETAIN ALL RECORDS REQUIRED BY PERMIT FOR A PERIOD OF FIVE YEARS AND MAKE ALL RECORDS AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

**Emissions And Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPM, RULE 407  
CO: 400 PPM, RULE 1146

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

NOx: 30 PPMV, NATURAL GAS, RULE 1146, RULE 1303(a)(1)-BACT  
NOx; 9 PPMV, NATURAL GAS, RULE 1146, EFFECTIVE 1/1/2012  
NOX: 40 PPMV, FUEL OIL, RULE 1146  
PM: 0.1 GR/SCF, RULE 409

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

**PERMIT TO OPERATE**

**Permit No. F6509  
A/N 309914**

**Equipment Description:**

BOILER NO. 3 SUPERIOR MOHAWK, MODEL NO. 4X-2007-S200, WITH A 16,800,000 BTU PER HOUR LOW NOX INDUSTRIAL COMBUSTION BURNER, MODEL NO. LNDLG-210-P, NATURAL GAS OR PROPANE FIRED.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS BOILER SHALL BE FIRED ON NATURAL GAS ONLY EXCEPT DURING PERIODS OF NATURAL GAS CURTAILMENT, DURING MAINTENANCE TESTING OF THE BURNER NOT TO EXCEED 30 MINUTES PER MONTH, OR DURING COMPLIANCE TESTING.  
[RULE 1303(a)(1)-BACT]
4. BOILER EMISSIONS SHALL NOT EXCEED 30 PPM FOR OXIDES OF NITROGEN (NOX) AND 400 PPM OF CARBON MONOXIDE (CO), MEASURED BY VOLUME, ON A DRY BASIS, AT 3% O<sub>2</sub>.  
[RULE 1146, 1303(a)(1)-BACT]
5. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH SOURCE TESTING REQUIREMENTS IN SUBDIVISION (d)(6)--COMPLIANCE DETERMINATION OF RULE 1146.
6. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH PERIODIC MONITORING REQUIREMENTS OF RULE 1146 (c)(8).
7. RETAIN ALL RECORDS REQUIRED BY PERMIT FOR A PERIOD OF FIVE YEARS AND MAKE ALL RECORDS AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

**Emissions And Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPM, RULE 407  
CO: 400 PPM, RULE 1146

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

NOx: 30 PPMV, NATURAL GAS, RULE 1146, RULE 1303(a)(1)-BACT  
NOx; 9 PPMV, NATURAL GAS, RULE 1146, EFFECTIVE 1/1/2012  
NOX: 40 PPMV, FUEL OIL, RULE 1146  
PM: 0.1 GR/SCF, RULE 409

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

**PERMIT TO OPERATE**

**Permit No. D97902  
A/N 311580**

**Equipment Description:**

STORAGE TANK, PROPANE GAS, PRESSURIZED, UNDERGROUND, 10'-10" DIA. X 47'-2" L, 30,000 GALLON CAPACITY, SERIAL NO. 12805-1.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

**PERMIT TO OPERATE**

**Permit No. D97903  
A/N 311582**

**Equipment Description:**

STORAGE TANK, PROPANE GAS, PRESSURIZED, UNDERGROUND, 10'-10" DIA. X 47'-2" L., 30,000 GALLON CAPACITY, SERIAL NO. 12805-2

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

**PERMIT TO OPERATE**

**Permit No. F27913  
A/N 367370**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL 3406DITA, SERIAL NO. 4ZR00528, DIESEL FUEL, TURBOCHARGED AND AFTERCOOLED, RATED AT 449 B.H.P, DRIVING AN EMERGENCY STAND-BY GENERATOR.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[204]
3. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARTED RELATIVE TO STANDARD TIMING.  
[RULE 1303 (a)(1)-BACT]
4. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]
5. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.  
[RULE 1303 (a)-BACT]
6. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT.  
[RULE 1470]
7. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE.  
[RULE 1110.2, RULE 1303 (a), RULE 1304 (a)(4), RULE 1470]
8. OPERATING BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE

## **FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR**

UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.  
[RULE 1470]

9. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1303 (b)(2), RULE 1470]
10. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.  
[RULE 1304 (a)(4), RULE 1470]
11. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED, DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS:
  - a. EMERGENCY USE.
  - b. MAINTENANCE AND TESTING.
  - c. OTHER (DESCRIBE THE REASON FOR OPERATING).
  - d. IN ADDITION, EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION.  
[RULE 1303 (b)(2), RULE 1470]
12. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG THE FOLLOWING:

THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND

THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.

THE ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.  
[RULE 1303 (b)(2)]

### **Emissions And Requirements:**

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1470

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

**PERMIT TO OPERATE**

**Permit No. F36085  
A/N 367365**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, MODEL VTA-28-G5, SERIAL NO. 25212931, DIESEL FUEL, FOUR CYCLE, TWELVE CYLINDERS, TURBOCHARGED AND AFTERCOOLED, RATED AT 900 B.H.P, DRIVING AN EMERGENCY STAND-BY GENERATOR.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[204]
3. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARTED RELATIVE TO STANDARD TIMING.  
[RULE 1303 (a)(1)-BACT]
4. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]
5. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.  
[RULE 1303 (a)-BACT]
6. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT.  
[RULE 1470]
7. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE.  
[RULE 1110.2, RULE 1303 (a), RULE 1304 (a)(4), RULE 1470]
8. OPERATING BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.

[RULE 1470]

9. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1303 (b)(2), RULE 1470]
10. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.  
[RULE 1304 (a)(4), RULE 1470]
11. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED, DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS:
  - a. EMERGENCY USE.
  - b. MAINTENANCE AND TESTING.
  - c. OTHER (DESCRIBE THE REASON FOR OPERATING).
  - d. IN ADDITION, EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION.  
[RULE 1303 (b)(2), RULE 1470]
12. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG THE FOLLOWING:

THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND

THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.

THE ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.  
[RULE 1303 (b)(2)]

### **Emissions And Requirements:**

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 1470

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

### PERMIT TO OPERATE

Permit No. F36086  
A/N 367369

#### Equipment Description:

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, MODEL 8063-7305 (6V-92T, SERIAL NO. 6VF215524, DIESEL FUEL, FOUR CYCLE, SIX CYLINDERS, TURBOCHARGED, RATED AT 352 B.H.P, DRIVING AN EMERGENCY STAND-BY GENERATOR.

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[204]
3. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARTED RELATIVE TO STANDARD TIMING.  
[RULE 1303 (a)(1)-BACT]
4. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]
5. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.  
[RULE 1303 (a)-BACT]
6. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT.  
[RULE 1470]
7. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE.  
[RULE 1110.2, RULE 1303 (a), RULE 1304 (a)(4), RULE 1470]
8. OPERATING BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE

## **FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR**

UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.  
[RULE 1470]

9. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1303 (b)(2), RULE 1470]
10. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.  
[RULE 1304 (a)(4), RULE 1470]
11. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED, DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS:
  - a. EMERGENCY USE.
  - b. MAINTENANCE AND TESTING.
  - c. OTHER (DESCRIBE THE REASON FOR OPERATING).
  - d. IN ADDITION, EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION.  
[RULE 1303 (b)(2), RULE 1470]
12. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG THE FOLLOWING:

THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND

THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.

THE ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.  
[RULE 1303 (b)(2)]

### **Emissions And Requirements:**

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1470

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

### PERMIT TO OPERATE

Permit No. F36090  
A/N 367367

#### Equipment Description:

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, MODEL 16V-92, SERIAL NO. 16VF002520, DIESEL FUEL, TWO CYCLE, SIXTEEN CYLINDERS, TURBOCHARGED AND AFTERCOOLED, RATED AT 821 B.H.P, DRIVING AN EMERGENCY STAND-BY GENERATOR.

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[204]
3. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARTED RELATIVE TO STANDARD TIMING.  
[RULE 1303 (a)(1)-BACT]
4. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]
5. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.  
[RULE 1303 (a)-BACT]
6. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT.  
[RULE 1470]
7. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE.  
[RULE 1110.2, RULE 1303 (a), RULE 1304 (a)(4), RULE 1470]
8. OPERATING BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.

[RULE 1470]

9. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1303 (b)(2), RULE 1470]
10. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.  
[RULE 1304 (a)(4), RULE 1470]
11. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED, DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS:
  - a. EMERGENCY USE.
  - b. MAINTENANCE AND TESTING.
  - c. OTHER (DESCRIBE THE REASON FOR OPERATING).
  - d. IN ADDITION, EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION.  
[RULE 1303 (b)(2), RULE 1470]
12. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG THE FOLLOWING:

THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND

THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.

THE ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.  
[RULE 1303 (b)(2)]

### **Emissions And Requirements:**

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1470

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

**PERMIT TO OPERATE**

**Permit No. F36218  
A/N 378209**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, MODEL VTA-28-G5, SERIAL NO. 25212933, DIESEL FUEL, FOUR CYCLE, TWELVE CYLINDERS, TURBOCHARGED AND AFTERCOOLED, RATED AT 900 B.H.P, DRIVING AN EMERGENCY STAND-BY GENERATOR.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[204]
3. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]
4. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.  
[RULE 1303 (a)-BACT]
5. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT.  
[RULE 1470]
6. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE.  
[RULE 1110.2, RULE 1303 (a), RULE 1304 (a)(4), RULE 1470]
7. OPERATING BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.  
[RULE 1470]

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

8. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1303 (b)(2), RULE 1470]
9. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.  
[RULE 1304 (a)(4), RULE 1470]
10. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED, DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS:
- a. EMERGENCY USE.
  - b. MAINTENANCE AND TESTING.
  - c. OTHER (DESCRIBE THE REASON FOR OPERATING).
  - d. IN ADDITION, EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION.  
[RULE 1303 (b)(2), RULE 1470]
11. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG THE FOLLOWING:
- THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND
- THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.
- THE ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.  
[RULE 1303 (b)(2)]

### **Emissions And Requirements:**

12. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1470

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

### PERMIT TO OPERATE

Permit No. F42606  
A/N 383298

#### Equipment Description:

INTERNAL COMBUSTION ENGINE, GENERAC, MODEL 133DTA (20A05021S), DIESEL FUEL, SIX CYLINDERS, TURBOCHARGED AND AFTERCOOLED, RATED AT 440 B.H.P, DRIVING AN EMERGENCY STAND-BY GENERATOR.

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[204]
3. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1470.  
[RULE 1470]
4. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.  
[RULE 1303 (a)-BACT]
5. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT.  
[RULE 1470]
6. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE.  
[RULE 1110.2, RULE 1303 (a), RULE 1304 (a)(4), RULE 1470]
7. OPERATING BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.  
[RULE 1470]

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

8. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1303 (b)(2), RULE 1470]
  9. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.  
[RULE 1304 (a)(4), RULE 1470]
  10. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED, DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS:
    - a. EMERGENCY USE.
    - b. MAINTENANCE AND TESTING.
    - c. OTHER (DESCRIBE THE REASON FOR OPERATING).
    - d. IN ADDITION, EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION.  
[RULE 1303 (b)(2), RULE 1470]
  11. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG THE FOLLOWING:

THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND

THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.

THE ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.  
[RULE 1303 (b)(2)]
- Emissions And Requirements:**
12. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 1470

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

**PERMIT TO OPERATE**

**Permit No. G  
A/N 531971**

**Equipment Description:**

Modification of Existing Boiler 1, Permit No. F6507

BOILER NO. 1, FIRE TUBE, SUPERIOR MOHAWK, MODEL NO. 4X-2007-S200, NATURAL GAS WITH PROPANE STANDBY FUEL. WITH ONE LOW NOX BURNER, AMERICAN COMBUSTION TECH., MODEL NO. FM06-SLE 16.7, WITH OXYGEN TRIM, RATED AT 16,800,000 BTU PER HOUR, A 20 H.P. COMBUSTION AIR BLOWER

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS BOILER SHALL BE FIRED ON NATURAL GAS ONLY EXCEPT DURING PERIODS OF NATURAL GAS CURTAILMENT, DURING MAINTENANCE TESTING OF THE BURNER NOT TO EXCEED 30 MINUTES PER MONTH, OR DURING COMPLIANCE TESTING.  
[RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL COMPLY WITH RULE 1146.  
[RULE 1146]
5. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH SOURCE TESTING REQUIREMENTS IN SUBDIVISION (d)(6)--COMPLIANCE DETERMINATION OF RULE 1146.  
[RULE 1146]
6. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH PERIODIC MONITORING REQUIREMENTS OF RULE 1146 (c)(8).  
[RULE 1146]
7. THIS BOILER SHALL EMIT NO MORE THAN 9 PPM FOR OXIDES OF NITROGEN (NOX) MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES WHEN FIRING ON NATURAL GAS.  
[RULE 1146]

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

8. EMISSIONS OF CARBON MONOXIDE (CO) SHALL NOT EXCEED 400 PPM REFERENCED AT 3% O<sub>2</sub> ON A DRY BASIS, AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.  
[RULE 1146, RULE 1303-BACT]
9. THIS BOILER SHALL BE EQUIPPED WITH A NON-RESETTABLE, TOTALIZING FLOW METER FOR EACH FUEL TO BE BURNED.  
[RULE 1146]
10. RETAIN ALL RECORDS REQUIRED BY PERMIT FOR A PERIOD OF FIVE YEARS AND MAKE ALL RECORDS AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1146]
11. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT A SOURCE TEST UNDER THE FOLLOWING CONDITIONS:
- A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 30 DAYS AFTER ACHIEVING MAXIMUM PRODUCTION RATE AT WHICH THE EQUIPMENT WILL BE OPERATED, BUT NO LATER THAN 90 DAYS AFTER INITIAL START-UP.
  - B. THE SOURCE TEST SHALL BE DONE TO VERIFY COMPLIANCE PERMIT CONDITION NO. SEVEN AND EIGHT.
  - C. THE SOURCE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH SCAQMD METHOD 100.1.
  - D. THE TEST SHALL BE CONDUCTED FOR 15 MINUTES FOR EACH LOAD, WHILE FIRING AT MAXIMUM, MINIMUM AND AVERAGE FIRING RATES.
  - E. TWO COMPLETE COPIES OF SOURCE TEST REPORTS (INCLUDE THE APPLICATION NUMBER AND A COPY OF THE PERMIT IN THE REPORT) SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, ATTN: ROY OLIVARES, P.O. BOX 4941, DIAMOND BAR, CA 91765). THE RESULTS IN WRITING SHALL BE SUBMITTED WITHIN 45 DAYS AFTER THE SOURCE TEST IS COMPLETED. IT SHALL INCLUDE, BUT NOT LIMITED TO EMISSIONS RATE IN POUNDS PER HOUR AND CONCENTRATION IN PPMV AT THE OUTLET OF THE BOILER.
  - F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST
  - G. SAMPLING FACILITIES SHALL COMPLY WITH THE AQMD "GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES", PURSUANT TO RULE 217.  
[RULE 1146]

**Periodic Monitoring:**

12. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER

## **FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR**

BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a)(4)]

13. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD.. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409  
CO: 400 PPMV, RULE 1146  
NOX: 9 PPMV, NATURAL GAS OR LPG, RULE 1146

**FACILITY PERMIT TO OPERATE  
US GOVT, VETERANS ADMINISTRATION MED CTR**

**PERMIT TO OPERATE**

**Permit No. G  
A/N 531975**

**Equipment Description:**

Modification of Existing Boiler 2, Permit No. F6508

BOILER NO. 2, FIRE TUBE, SUPERIOR MOHAWK, MODEL NO. 4X-2007-S200, NATURAL GAS WITH PROPANE STANDBY FUEL. WITH ONE LOW NOX BURNER, AMERICAN COMBUSTION TECH., MODEL NO. FM06-SLE 16.7, WITH OXYGEN TRIM, RATED AT 16,800,000 BTU PER HOUR, A 20 H.P. COMBUSTION AIR BLOWER

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS BOILER SHALL BE FIRED ON NATURAL GAS ONLY EXCEPT DURING PERIODS OF NATURAL GAS CURTAILMENT, DURING MAINTENANCE TESTING OF THE BURNER NOT TO EXCEED 30 MINUTES PER MONTH, OR DURING COMPLIANCE TESTING.  
[RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL COMPLY WITH RULE 1146.  
[RULE 1146]
5. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH SOURCE TESTING REQUIREMENTS IN SUBDIVISION (d)(6)--COMPLIANCE DETERMINATION OF RULE 1146.  
[RULE 1146]
6. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH PERIODIC MONITORING REQUIREMENTS OF RULE 1146 (c)(8).  
[RULE 1146]
7. THIS BOILER SHALL EMIT NO MORE THAN 9 PPM FOR OXIDES OF NITROGEN (NOX) MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES WHEN FIRING ON NATURAL GAS.  
[RULE 1146]

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

8. EMISSIONS OF CARBON MONOXIDE (CO) SHALL NOT EXCEED 400 PPM REFERENCED AT 3% O<sub>2</sub> ON A DRY BASIS, AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.  
[RULE 1146, RULE 1303-BACT]
9. THIS BOILER SHALL BE EQUIPPED WITH A NON-RESETTABLE, TOTALIZING FLOW METER FOR EACH FUEL TO BE BURNED.  
[RULE 1146]
10. RETAIN ALL RECORDS REQUIRED BY PERMIT FOR A PERIOD OF FIVE YEARS AND MAKE ALL RECORDS AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1146]
11. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT A SOURCE TEST UNDER THE FOLLOWING CONDITIONS:
- A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 30 DAYS AFTER ACHIEVING MAXIMUM PRODUCTION RATE AT WHICH THE EQUIPMENT WILL BE OPERATED, BUT NO LATER THAN 90 DAYS AFTER INITIAL START-UP.
  - B. THE SOURCE TEST SHALL BE DONE TO VERIFY COMPLIANCE PERMIT CONDITION NO. SEVEN AND EIGHT.
  - C. THE SOURCE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH SCAQMD METHOD 100.1.
  - D. THE TEST SHALL BE CONDUCTED FOR 15 MINUTES FOR EACH LOAD, WHILE FIRING AT MAXIMUM, MINIMUM AND AVERAGE FIRING RATES.
  - E. TWO COMPLETE COPIES OF SOURCE TEST REPORTS (INCLUDE THE APPLICATION NUMBER AND A COPY OF THE PERMIT IN THE REPORT) SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, ATTN: ROY OLIVARES, P.O. BOX 4941, DIAMOND BAR, CA 91765). THE RESULTS IN WRITING SHALL BE SUBMITTED WITHIN 45 DAYS AFTER THE SOURCE TEST IS COMPLETED. IT SHALL INCLUDE, BUT NOT LIMITED TO EMISSIONS RATE IN POUNDS PER HOUR AND CONCENTRATION IN PPMV AT THE OUTLET OF THE BOILER.
  - F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST
  - G. SAMPLING FACILITIES SHALL COMPLY WITH THE AQMD "GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES", PURSUANT TO RULE 217.  
[RULE 1146]

Periodic Monitoring:

12. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a)(4)]

13. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD.. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a)(4)]

### Emissions And Requirements:

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409  
CO: 400 PPMV, RULE 1146  
NOX: 9 PPMV, NATURAL GAS OR LPG, RULE 1146

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

### PERMIT TO OPERATE

Permit No. G  
A/N 531973

#### Equipment Description:

Modification of Existing Boiler 3, Permit No. F6509

BOILER NO. 3, FIRE TUBE, SUPERIOR MOHAWK, MODEL NO. 4X-2007-S200, NATURAL GAS WITH PROPANE STANDBY FUEL. WITH ONE LOW NOX BURNER, AMERICAN COMBUSTION TECH., MODEL NO. FM06-SLE 16.7, WITH OXYGEN TRIM, RATED AT 16,800,000 BTU PER HOUR, A 20 H.P. COMBUSTION AIR BLOWER

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS BOILER SHALL BE FIRED ON NATURAL GAS ONLY EXCEPT DURING PERIODS OF NATURAL GAS CURTAILMENT, DURING MAINTENANCE TESTING OF THE BURNER NOT TO EXCEED 30 MINUTES PER MONTH, OR DURING COMPLIANCE TESTING.  
[RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL COMPLY WITH RULE 1146.  
[RULE 1146]
5. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH SOURCE TESTING REQUIREMENTS IN SUBDIVISION (d)(6)--COMPLIANCE DETERMINATION OF RULE 1146.  
[RULE 1146]
6. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH PERIODIC MONITORING REQUIREMENTS OF RULE 1146 (c)(8).  
[RULE 1146]
7. THIS BOILER SHALL EMIT NO MORE THAN 9 PPM FOR OXIDES OF NITROGEN (NOX) MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AVERAGED OVER A PERIOD OF 15

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

CONSECUTIVE MINUTES WHEN FIRING ON NATURAL GAS.  
[RULE 1146]

- 8 EMISSIONS OF CARBON MONOXIDE (CO) SHALL NOT EXCEED 400 PPM REFERENCED AT 3% O<sub>2</sub> ON A DRY BASIS, AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.  
[RULE 1146, RULE 1303-BACT]
9. THIS BOILER SHALL BE EQUIPPED WITH A NON-RESETTABLE, TOTALIZING FLOW METER FOR EACH FUEL TO BE BURNED.  
[RULE 1146]
10. RETAIN ALL RECORDS REQUIRED BY PERMIT FOR A PERIOD OF FIVE YEARS AND MAKE ALL RECORDS AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1146]
11. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT A SOURCE TEST UNDER THE FOLLOWING CONDITIONS:
- A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 30 DAYS AFTER ACHIEVING MAXIMUM PRODUCTION RATE AT WHICH THE EQUIPMENT WILL BE OPERATED, BUT NO LATER THAN 90 DAYS AFTER INITIAL START-UP.
  - B. THE SOURCE TEST SHALL BE DONE TO VERIFY COMPLIANCE PERMIT CONDITION NO. SEVEN AND EIGHT.
  - C. THE SOURCE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH SCAQMD METHOD 100.1.
  - D. THE TEST SHALL BE CONDUCTED FOR 15 MINUTES FOR EACH LOAD, WHILE FIRING AT MAXIMUM, MINIMUM AND AVERAGE FIRING RATES.
  - E. TWO COMPLETE COPIES OF SOURCE TEST REPORTS (INCLUDE THE APPLICATION NUMBER AND A COPY OF THE PERMIT IN THE REPORT) SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, ATTN: ROY OLIVARES, P.O. BOX 4941, DIAMOND BAR, CA 91765). THE RESULTS IN WRITING SHALL BE SUBMITTED WITHIN 45 DAYS AFTER THE SOURCE TEST IS COMPLETED. IT SHALL INCLUDE, BUT NOT LIMITED TO EMISSIONS RATE IN POUNDS PER HOUR AND CONCENTRATION IN PPMV AT THE OUTLET OF THE BOILER.
  - F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST
  - G. SAMPLING FACILITIES SHALL COMPLY WITH THE AQMD "GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES", PURSUANT TO RULE 217.  
[RULE 1146]

Periodic Monitoring:

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

12. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.  
[RULE 3004 (a)(4)]
13. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD.. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.  
[RULE 3004 (a)(4)]

### Emissions And Requirements:

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- CO: 2000 PPMV, RULE 407
  - PM: 0.1 GR/SCF, RULE 409
  - CO: 400 PPMV, RULE 1146
  - NOX: 9 PPMV, NATURAL GAS OR LPG, RULE 1146

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

### PERMIT TO OPERATE

Permit No. G  
A/N 529701

#### Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, MODEL NO. QSB7-G6, DIESEL-FUELED, SIX CYLINDERS, FOUR CYCLE, TURBOCHARGER, CHARGED AIR COOLER, EGR, RATED AT 314 BHP, WITH CUMMINS CONTROL SYSTEM, MODEL CM2250, WITH A DIESEL PARTICULATE FILTER, OXIDATION CATALYST AND ELECTRONIC CONTROL MODULE, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[204]
3. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 431.2 AND RULE 1470.  
[RULE 1470, RULE 431.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING AND NO MORE THAN 4.2 HOURS IN ANY ONE MONTH FOR MAINTENANCE AND TESTING.  
[RULE 1110.2, RULE 1303 (a), RULE 1470]
5. OPERATING BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.  
[RULE 1470]
6. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1303 (b)(2), RULE 1470]

## **FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR**

7. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.  
[RULE 1470]
  
8. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED, DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS:
  - a. EMERGENCY USE.
  - b. MAINTENANCE AND TESTING.
  - c. OTHER (DESCRIBE THE REASON FOR OPERATING).
  - d. IN ADDITION, EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION.  
[RULE 1303 (b)(2), RULE 1470]
  
9. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG THE FOLLOWING:

THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND

THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.

  - a. THE ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.  
[RULE 1303 (b)(2)]
  
10. THIS ENGINE SHALL NOT BE OPERATED UNLESS ITS EXHAUST IS VENTED TO THE DIESEL PARTICULATE FILTER WHICH SHALL BE IN FULL OPERATION AND IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 1303 (a)]
  
11. THE OPERATOR SHALL NOT OPERATE THE DIESEL PARTICULATE FILTER SYSTEM WITHOUT AN CM2250 ELECTRONIC CONTROL MODULE AND OPERATIONAL DISPLAY OF EXHAUST TEMPERATURE, BACKPRESSURE AND ALARM SYSTEM.  
[RULE 1303 (a), RULE 1470]
  
12. THE OPERATOR SHALL INSTALL AND MAINTAIN A PRESSURE GAUGE (DISPLAY READING SHALL BE READILY AVAILABLE) TO ACCURATELY INDICATE THE BACK PRESSURE OF THE ENIGNE (ELECTRONIC DISPLAY IS ACCEPTABLE). THE DISPLAY OF THE PRESSURE GAUGE SHALL BE IN INCHES OF WATER COLUMN (W.C.) OR INCHES MERCURY (IN. HG).  
[RULE 1303 (a), RULE 1470]
  
13. THE MAXIMUM BACK PRESSURE OF THE ENIGNE SHALL NOT EXCEED 88 INCHES W.C.  
[RULE 1303 (a)]

## **FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR**

14. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE (DISPLAY READING SHALL BE READILY AVAILABLE) AT THE OUTLET OF THE DIESEL PARTICULATE FILTER (ELECTRONIC DISPLAY IS ACCEPTABLE). THE DISPLAY OF THE TEMPERATURE GAUGE SHALL BE IN DEGREES FAHRENHEIT.  
[RULE 1303 (a)]
15. THE MAXIMUM TEMPERATURE AT THE OUTLET OF THE DIESEL PARTICULATE FILTER SHALL NOT EXCEED 1472 DEGREES FAHRENHEIT.
16. THE DIESEL PARTICULATE FILTER (DPF) REGENERATION SHALL BE STARTED AUTOMATICALLY WHEN THE PRESSURE DROP ACROSS THE DIESEL PARTICULATE FILTER EXCEED THE VALUES DETERMINED BY THE CM22500 CONTROL MODULE.  
[RULE 1303 (a)]
17. THE OPERATOR SHALL KEEP RECORDS OF PARTICULATE FILTER INSPECTIONS, REPLACEMENTS AND MANUAL REGENERATIONS. THE OPERATOR SHALL MAINTAIN THESE RECORDS FOR A MINIMUM OF FIVE YEARS AND MAKE THEM AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1303 (a)]
18. THE NUMBER OF HOURS OF OPERATION BEFORE CLEANING OF THE DIESEL PARTICULATE FILTER (DPF) IS REQUIRED IS 5,000 HOURS.  
[RULE 1303 (a)]
19. SULFUR CONTENT OF DIESEL FUEL SUPPLIED TO THE ENGINE SHALL NOT EXCEED 15 PPM BY WEIGHT.  
[RULE 1303 (a)]

### **Emissions And Requirements:**

20. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - PM: RULE 1470
  - NOx: 1.5 G/BHP-HR, RULE 1303 (a)
  - CO: 2.6 G/BHP-HR, RULE 1303 (a)
  - VOC: 0.14 G/BHP-HR, RULE 1303 (a)
  - PM: 0.015 G/BHP-HR, RULE 1303 (a)

## FACILITY PERMIT TO OPERATE US GOVT, VETERANS ADMINISTRATION MED CTR

### RULE 219 EQUIPMENT

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

**Periodic Monitoring:**

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF (A) COATING TYPE, (B) VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS, (C) VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (A) COATING TYPE, (B) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, (C) VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

[RULE 3004(a)(4)]

**Emissions And Requirements:**

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

<b>SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT</b>  <b>E&amp;C DIVISION</b>  <b>APPLICATION PROCESSING AND CALCULATIONS</b>	TOTAL PAGES:	PAGE NO.:
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RDO		

**PERMIT TO OPERATE**

APPLICANT	US GOVT., VETERANS ADMIN. MED CENTER
MAILING ADDRESS	16111 PLUMMER STREET NORTH HILLS, CA
EQUIPMENT LOCATION	SAME

**EQUIPMENT DESCRIPTION:**

Facility ID: 5679

**APPLICATION NO 529701**

INTERNAL COMBUSTION ENGINE, CUMMINS, MODEL NO. QSB7-G6, DIESEL-FUELED, SIX CYLINDERS, FOUR CYCLE, TURBOCHARGER, CHARGED AIR COOLER, EGR, RATED AT 314 BHP, WITH CUMMINS CONTROL SYSTEM, MODEL CM2250, WITH A DIESEL PARTICULATE FILTER, OXIDATION CATALYST AND ELECTRONIC CONTROL MODULE, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

**APPLICATION NO 529700**

TITLE V REVISION

**PERMIT CONDITIONS**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[204]
3. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 431.2 AND RULE 1470.  
[RULE 1470, RULE 431.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING AND NO MORE THAN 4.2 HOURS IN ANY ONE MONTH FOR MAINTENANCE AND TESTING.  
[RULE 1110.2, RULE 1303 (a), RULE 1470]

<b>SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT</b>  <b>E&amp;C DIVISION</b>  <b>APPLICATION PROCESSING AND CALCULATIONS</b>	TOTAL PAGES:	PAGE NO.:
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RDO		

5. OPERATING BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.  
[RULE 1470]
  
6. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1303 (b)(2), RULE 1470]
  
7. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.  
[RULE 1470]
  
8. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED, DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS:
  - a. EMERGENCY USE.
  - b. MAINTENANCE AND TESTING.
  - c. OTHER (DESCRIBE THE REASON FOR OPERATING).
  - d. IN ADDITION, EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION.  
[RULE 1303 (b)(2), RULE 1470]
  
9. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG THE FOLLOWING:
 

THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND

THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.

  - a. THE ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.  
[RULE 1303 (b)(2)]
  
10. THIS ENGINE SHALL NOT BE OPERATED UNLESS ITS EXHAUST IS VENTED TO THE DIESEL PARTICULATE FILTER WHICH SHALL BE IN FULL OPERATION AND IN GOOD OPERATING

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CONDITION AT ALL TIMES.

[RULE 1303 (a)]

11. THE OPERATOR SHALL NOT OPERATE THE DIESEL PARTICULATE FILTER SYSTEM WITHOUT AN CM2250 ELECTRONIC CONTROL MODULE AND OPERATIONAL DISPLAY OF EXHAUST TEMPERATURE, BACKPRESSURE AND ALARM SYSTEM.  
[RULE 1303 (a), RULE 1470]
12. THE OPERATOR SHALL INSTALL AND MAINTAIN A PRESSURE GAUGE (DISPLAY READING SHALL BE READILY AVAILABLE) TO ACCURATELY INDICATE THE BACK PRESSURE OF THE ENGINE (ELECTRONIC DISPLAY IS ACCEPTABLE). THE DISPLAY OF THE PRESSURE GAUGE SHALL BE IN INCHES OF WATER COLUMN (W.C.) OR INCHES MERCURY (IN. HG).  
[RULE 1303 (a), RULE 1470]
13. THE MAXIMUM BACK PRESSURE OF THE ENGINE SHALL NOT EXCEED 88 INCHES W.C.  
[RULE 1303 (a)]
14. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE (DISPLAY READING SHALL BE READILY AVAILABLE) AT THE OUTLET OF THE DIESEL PARTICULATE FILTER (ELECTRONIC DISPLAY IS ACCEPTABLE). THE DISPLAY OF THE TEMPERATURE GAUGE SHALL BE IN DEGREES FAHRENHEIT.  
[RULE 1303 (a)]
15. THE MAXIMUM TEMPERATURE AT THE OUTLET OF THE DIESEL PARTICULATE FILTER SHALL NOT EXCEED 1472 DEGREES FAHRENHEIT.  
[RULE 1303 (a)]
16. THE DIESEL PARTICULATE FILTER (DPF) REGENERATION SHALL BE STARTED AUTOMATICALLY WHEN THE PRESSURE DROP ACROSS THE DIESEL PARTICULATE FILTER EXCEED THE VALUES DETERMINED BY THE CM22500 CONTROL MODULE  
[RULE 1303 (a)]
17. THE OPERATOR SHALL KEEP RECORDS OF PARTICULATE FILTER INSPECTIONS, REPLACEMENTS AND MANUAL REGENERATIONS. THE OPERATOR SHALL MAINTAIN THESE RECORDS FOR A MINIMUM OF FIVE YEARS AND MAKE THEM AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1303 (a)]
18. THE NUMBER OF HOURS OF OPERATION BEFORE CLEANING OF THE DIESEL PARTICULATE FILTER IS REQUIRED IS 5,000 HOURS.  
[RULE 1303 (a)]
19. SULFUR CONTENT OF DIESEL FUEL SUPPLIED TO THE ENGINE SHALL NOT EXCEED 15 PPM BY WEIGHT.  
[RULE 1303 (a)]

**Emissions And Requirements:**

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20. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 1470

NOx: 1.5 G/BHP-HR, RULE 1303 (a)

CO: 2.6 G/BHP-HR, RULE 1303 (a)

VOC: 0.14 G/BHP-HR, RULE 1303 (a)

PM: 0.015 G/BHP-HR, RULE 1303 (a)

**BACKGROUND:**

The application was filed as new construction. The engine will be used as diesel fueled emergency stand-by ICE driving an emergency electrical generator. The applicant is proposing to install a Tier 4i engine. The engine will be equipped Diesel Particulate Filter (DPF) and oxidization catalyst. The engine is CARB certified to meet Title 13, CCR, Section 2423 on July 1, 2011 (Executive Order U-R-002-0574, emission certification). The engine has received a Certificate of Conformity for 2012 Model Year by USEPA on May 5, 2011 that expires on December 31, 2012 (CCEXL06.7AAF-001).

In the Facility Permit ID#5679, additions are requested to Section D by the addition of one emergency diesel fueled ICEs. Attached is a draft of Section D in the Facility Permit affected by this addition.

This Title V modification is considered as a “de minimis significant revision” to the Title V permit because there is no increase of pollutant emissions that do not exceed the threshold levels described District Rule 3000 (b)(7) as reference by 3005 (e)(1).

**COMPLIANCE HISTORY**

There has been one NOV (not conducting required Rule 1146 testing) and one NC (keep VOC records) has been issued during the past two years for this facility during the following time period: 04/11/2010-04/11/2012

**Permitting since the Title V permit was renewed since 10/2011, ref a/n 519383**

Item	Project type	A/n	30 day ave-lb/dy				
			NOx	ROG	CO	SOx	PM10
title v revision	Boiler modification	531977	-30.84	+0	+0	+0	+0
Title V revision	New em ICE	529070	+0.10	+0	+0	+0	+0

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Change in emissions		0	-30.74	+0	+0	+0	+0
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## CALCULATIONS

### 1. Permit processing Emissions calculation methodology

#### A. Emissions calculations

Determine emissions from NO<sub>x</sub>, CO, ROG and PM

$$R1(LB / HR) = \frac{hp \times gr / bhp - hr}{454 gr / lb}$$

*Note R1=R2*

*Note, PM10 =0.96 PM (ref PM10 combustion values for various operations, ref District factors)*

Determine emissions from SOX

$$R1(LB / HR) = \frac{EF \times GAL USAGE}{1 \times 10^3}$$

*Note R1 = R2*

*Where EF equal lb/MGAL (ref SCAQMD emissions fee form B-3)*

*Note, if applicant provide SO<sub>x</sub> in terms of g/bhp-hr, use previous formula*

### 2. EMISSIONS CALCULATIONS

$$R2(LB / HR) = R1 \times ((100 - eff) / 100)$$

Minimum control efficiency is 85%, per control system specs

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For this project assume not CO and VOC reduction, only PM reduction

B. Requirements for BACT, Rule 1303 (a)

X	Units	VOC	NO <sub>x</sub>	CO	PM <sub>10</sub>
Required	g/bHP-hr	0.14	1.5000	2.6000	0.0020
Actual		0.007	1.04	0.01	0.002
Compliance		YES	YES	YES	YES
Rule		1303 (a)	1303 (a)	1303 (a)	1303 (a)

See emissions data sheet CARB executive order U-R-002-0574, copy in file  
EPA Certificate CCEXL06.7AAF-001, copy in file

4. EMISSIONS CALCULATIONS

	R1-lb/hr	R1-lb/dy	R2-30 dy av	R2-lb/yr
NO <sub>x</sub>	0.72	0.72	0.10	36
ROG	0.00	0.00	0.001	0.24
CO	0.01	0.01	0.00	0
SO <sub>x</sub>	0.0034	0.0034	0.0005	0.1692
PM	0.00138	0.00	0.0002	0.07
PM10	0.00133	0.00	0.0002	0.07

See attachment for detailed calculations (emissions based on 1 hr/dy, 1 dy/wk, 50 wk/yr engine testing)

**RULES EVALUATION:**

Rule 212 The subject equipment will not be located within 1,000 feet of a school. The emissions from the emergency stand by ICE will not exceed the daily maximum specified in subdivision (g) of this Rule.

Item	Equipment located beyond 1000 feet of a school	Public notice required
EM-ICE	Yes	no

Section (c)(3)(A)(i)

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Pollutant	MICR	Threshold	Public Notice required
ICE	2.20E-08	1.0e-06	No

## Section (c)(2)

Pollutant	Net increase in emissions lb/dy	Allowed limit-lb/dy	Trigger Public Notice
NOx	+0.01	40	No
ROG	+0.001	30	No
CO	+0.01	220	No
PM10	+0.0002	30	No
SOx	+0	60	NO

Rule 401 :The equipment is not expected to emit visible emissions.

Rule 402 :The equipment is not expected to emit odorous emissions.

Rule 404 :Grain loading from the engine expected to comply.

Rule 431.2 Per section (c)(e)(2) require the fuel oil purchased to have a sulfur content of less than 15 ppmw, expected to comply with this Rule .

Rule 1110.2.Exempt per section (i)(2).

Reg. XIII Compliance with the following sections is anticipated.

1303 (a)-BACT- Emissions meet Tier 4i BACT limits for NOx, VOC, CO and PM. This is a Title V facility and is subject to LAER and requires a DPF to be installed on the engine to control PM10 emissions (met)

Item	HP	VOC	NOx	CO	PM10
		g/bhp-hr	g/bhp-hr	g/bhp-hr	g/bhp-hr
BACT		0.14	1.5	2.6	0.015
Engine	314	0.007	1.04	0.01	0.002
Compliance		Yes	Yes	Yes	yes

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Title V facility are required to install PM filter for LAER, the Tier 4i engine will comply with the LAER requirement for PM and will establish LAER for the other pollutants

1303 (b)(1)-The engine is exempt from modeling for being emergency equipment, per 1304 (a)(4)

1303 (b)(2)- The engine is exempt from offsets for being emergency equipment, per 1304 (a)(4). The hospital is Essential Public Service (EPS) per Rule 1302 (m)(6) and use the Rule 1309.1(a)(3) exemption for offsets purposes.

RULE 1401-Engines exempt per section (g)(1)(F), does not apply for stand-by generators exempt per Reg 1304. The MICR was conducted for Rule 212 and the MICR was below one in one million, see attachment A for details.

RULE 1470- Compliance with the following sections is anticipated.

1470 (c)(1)-Requires ultra low sulfur be used in this equipment 1/2006, but Rule 431.2 requires the use of this fuel at this time.

1470 (c)(2)(C)(i)(II)-Limit the testing to no more than 50 hours per year. PM emissions less than 0.15 g/bhp-hr, see emissions data sheet (copy in file).

1470 (c)(2)(C)(iv)-Complies, the NOx, CO and VOC complies with the current Tier 4i BACT emissions limits, see CARB executive order.

1470 (d)(7)(A)-Require time meter to be installed

1470 (d)(7)(B)-Require backpressure monitor to installed (pm control)

1470 (d)(9)(A)- Require record keeping conditions

RULE 1472- Submitted compliance plan (a/n 517620), under review.

RULE XVII-Prevention of Significant Deterioration

1701 (b)(2)(A)- The emissions increase are well below the threshold limits of this Rule (permit condition limits annual operating hours to 200 hours per year).

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1714 (b)(2)(A) The annual criteria emissions are well below the threshold limits of this Rule, thus GHG emission are well below the threshold limits and does not apply

Regulation XXX

This facility (id 5679) is included in Phase Two of the Title V universe. Therefore proposed equipment is expected to comply with the following sections:

Rule 3000 (b)(6)- The Title V expected permit revisions caused by this equipment I installation satisfies all the applicable conditions listed in this rule, thus it constitutes a de minimus permit evaluation.

Rule 3003 The anticipated de minimis significant revision is expected to comply with all the applicable requirements in this rule, of special note are the sections listed below

Section (j)(1)(A) The EPA Administrator will timely receive the de minimis permit revision application whenever it becomes available to the Executive Officer.

Section (j)(1)(B) The EPA Administrator will timely receive the draft of the de minimis significant revision upon completion of District evaluation.

Section (j)(4) The applicant and the EPA will be timely notified of any refusal to accept all recommendations of the draft permits.

Rule 3005 (e) Whenever applicable, the procedures for de minimus permit revision stated in this rule will be addressed in a proper and timely manner.

CAM plan issues-Engine limited to 200 hours per year, uncontrolled pollutant emissions well below thresholds

CALIFORNIA AIRBORNE TOXIC CONTROL MEASURE FOR STATIONARY COMPRESSION IGNTIION ENGINES.

The ATCM was amended October 2010 and the requirements for Tier 4i and Tier 4 was removed and section 93115.6 (a)(3)(A)(1)(a) Table 1. Table 1 keeps the current Tier 2 and Tier 3 emissions standards for the applicable HP engine group. The revised ATCM is expected to be formally approved by CARB in spring 2011. CARB in November 2010 distributed a regulatory advisory that provided guidance on compliance with the ATCM during the transition period from the current ATCM to the amended ATCM. . The ATCM hase become effective on May 19, 2011 when the California Office of Administrative Law (OAL) approved the CARB rulemaking for

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the amendments to ATCM. AQMD has announced that it intends to amend Rule 1470 to incorporate some of amendments to ATCM that have been approved by OAL. At this time, AQMD is considering amendments to Rule 1470 to align with the amended ATCM for all pollutants except diesel particulate matter (PM), which is a toxic and cancer causing air contaminant

NSPS

Title 40 Part 60 subpart III section 60.4205

Emergency CI ICE of model year of 2007 or later with a displacement of less than 30 liters per cylinder has to comply with the non road emissions standards. The engine displacement is 8.8 liters and the engine complies with Tier 3 emissions limits, thus compliance with this Regulation is met.

Title 40 Part 63, Subpart ZZZZ

The engine is located at a medical center that is **not** a Major Source of HAPs

Section 63.6640 (f)-does not apply to new CI located at area source. AQMD limits the maintenance and testing to 50 hours per year

Table 1a-does not apply

Table 1b-does not apply

Table 2a-does not apply

Table 2b-does not apply

Table 2c-applies to existing em-CI engines located at major source of HAPs, does not apply for this project

Table 2d-Item 4, applies for this engine, change the oil, inspect air filter/hose/belts annually

Table 3-does not apply

Table 4-does not apply

Table 5-does not apply

Table 6-does not apply

Table 7-does not apply

Record keeping per 63.10

**RECOMMENDATIONS**

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Based on the analysis in this report, the equipment is expected to comply with the applicable Rules and Regulations of the SCAQMD and the applicable BACT requirements.

For this reason, the following disposition is recommended; issue a revised Title V Facility Permit reflecting the addition of one emergency stand-by engine under section D.

Updates in Section D of the Title V facility Permit resulting from this addition are listed in Equipment and Condition sections of the attached draft permit.

**RECOMMENDATIONS**

FOR THIS APPLICATION THE FOLLOWING DISPOSITION IS RECOMMENDED:

Issue P/O

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## APPENDIX A

### MAXIMUM INDIVIDUAL CANCER RISK

Methods per "Risk Assessment Procedures for Rule 1401 and 212" revised version 7.0, dated July 1, 2005.

Calculate contaminant R2 emissions (lb/hr) and ton/yr

Find the correct met zone for this location

Find the distance from equipment to the nearest residence and commercial receptor

Look up the unit risk factor for each contaminant

- ⇒ Use unit Risk factor for diesel ice soot for MICR determination.
- ⇒ Note evaluate the engines at 1 hour per day, 50 weeks per year (testing)
- ⇒ Max concentration based on SCREEN III is 58 meters from the equipment
- ⇒ Stack diameter is 6 inches, per applicant, see e-mail dated 12/24/2011
- ⇒ Stack ht =9 feet, per applicant, see e-mail dated 12/24/2011
- ⇒ Stack ACFM is 1099, see e-mail dated 12/24/2011
- ⇒ Sack temp is 973 F, see e-mail dated 12/24/2011
- ⇒ R1 PM emissions = 0.002 g/bhp-hr, per Cummins, see emissions data sheet in file
- ⇒ Control eff = 85% per Cummins/CARB executive order no. U-R-002-0574, copy in file
  
- ⇒ Typically the engines only operate at max load
  
- ⇒ PM emissions

$$R1(lb/hr) = HP * g / hp - hr.$$

Where HP is the max engine HP.

Where g/bhp-hr is the PM emissions, provided by engine manufacture, copy of specs in file

- ⇒ Determine R2 from the outlet of the DPF filter

$$R2(lb/hr) = R1 * 0.15$$

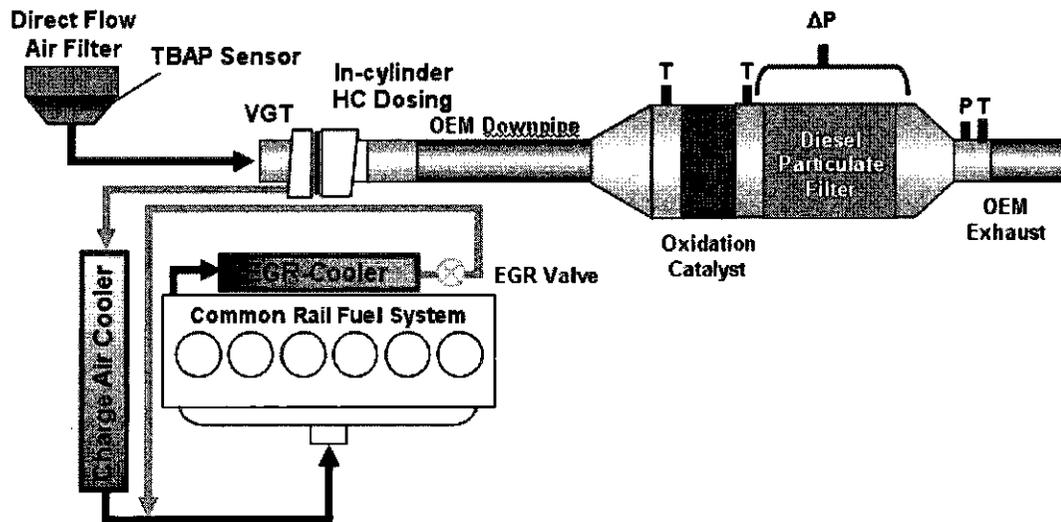
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**APPENDIX B**

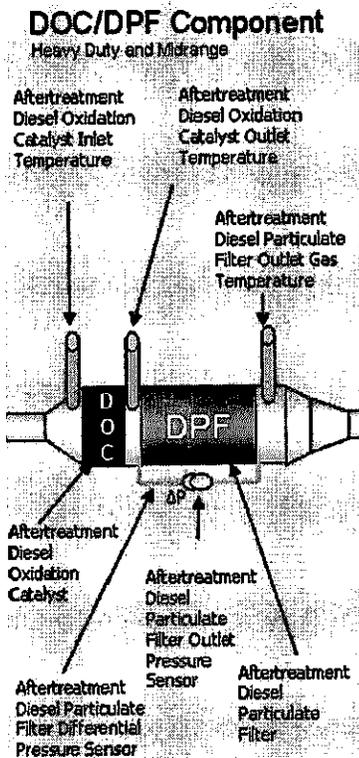
Cummins is proposing active regeneration and is based proven regen system based on over 7 billion operating miles with EPA 2007 on-highway engines. Cummins has developed an integrated engine and control system to meet the Tier 4i emission requirements. The engine will utilize a Direct Air Flow (DAF) air cleaner and diesel particulate filter. The EGR cooler is used to a small portion of the exhaust gas and is used to reduce the NOx (to comply with the 1.5 gb/hp-hr emissions limit). The engine exhaust is sent to the oxidation catalyst first then the DPF second. During regeneration, extra diesel fuel is added to the cylinder (engine runs richer) and is exhausted to the oxidation catalyst where



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**APPLICATION PROCESSING AND CALCULATIONS**



**DPF regeneration**

Cummins utilizes active regeneration by introducing additional fuel into the cylinder (engine runs richer) such that it enters the exhaust stream. The fuel mixes in the exhaust stream and evaporates. The hydrocarbon rich gas creates a chemical reaction in the DOC that increases the exhaust temperatures that starts the regeneration in the DPF. The CM2250 electronic control module (ECM) will start automatic regeneration when necessary any time during the engine operation.

The following inputs are used by the ECM

- Inlet/outlet pressure sensor to the DPF,
- Inlet/outlet temperature sensor the DOC
- Outlet temperature sensor to the DPF

The engine is equipped with a after treatment lamp (lights) indicators

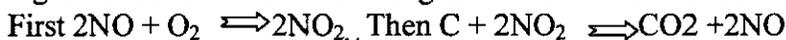
Cummins bases it's diesel particulate filter (DPF) regeneration on an algorithm (matrix table) soot-load (gm/liter) model and the pressure drop across the DPF is an input to that model. Thus, Cummins does not initiate a DPFs regen based on a minimum pressure drop, but primarily based on soot-loading, exhaust temperatures, exhaust flow, engine speed, and duty cycle (there is a

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matrix with all the operating variables, regeneration is based on these value). Cummins system will initiate incremental amounts of internal-hydrocarbon-dosing to increase DPF temperature so that soot load is managed and full-regens are minimized, and the DPF pressure drop is used as an input to determine the incremental amounts of dosing and it's performance. If the equipment has a High Exhaust System Temperature (HEST) lamp, Cummins will illuminate that lamp when the DPF reaches approximately 480C.

Cummins system will incrementally increase DPF temperatures based on soot-loading and duty-cycle, and will increase the temperature by internal-HC dosing which will make for a fuel rich exhaust to burn off the soot. This is done incrementally based off the soot-load model so that the soot-loading is managed as a primary function and pressure drop across the DPF is monitored to determine it's performance. So, if duty cycle and exhaust temps require internal-HC dosing, then that dosing will occur more frequently to manage the soot-load and the result would be a managed pressure drop across the DPF.

Passive regeneration- once soot accumulates to a certain level, the soot accumulation rate is balanced by a natural oxidation of collected soot. Passive regeneration happens during the normal operation of the machine. No change to the engine operation is observed and no additional fuel is added because the temperature of the DPF is high enough to allow for regeneration to occur. Passive regeneration occurs from 220-500 degrees C.



There are three types of different active regeneration

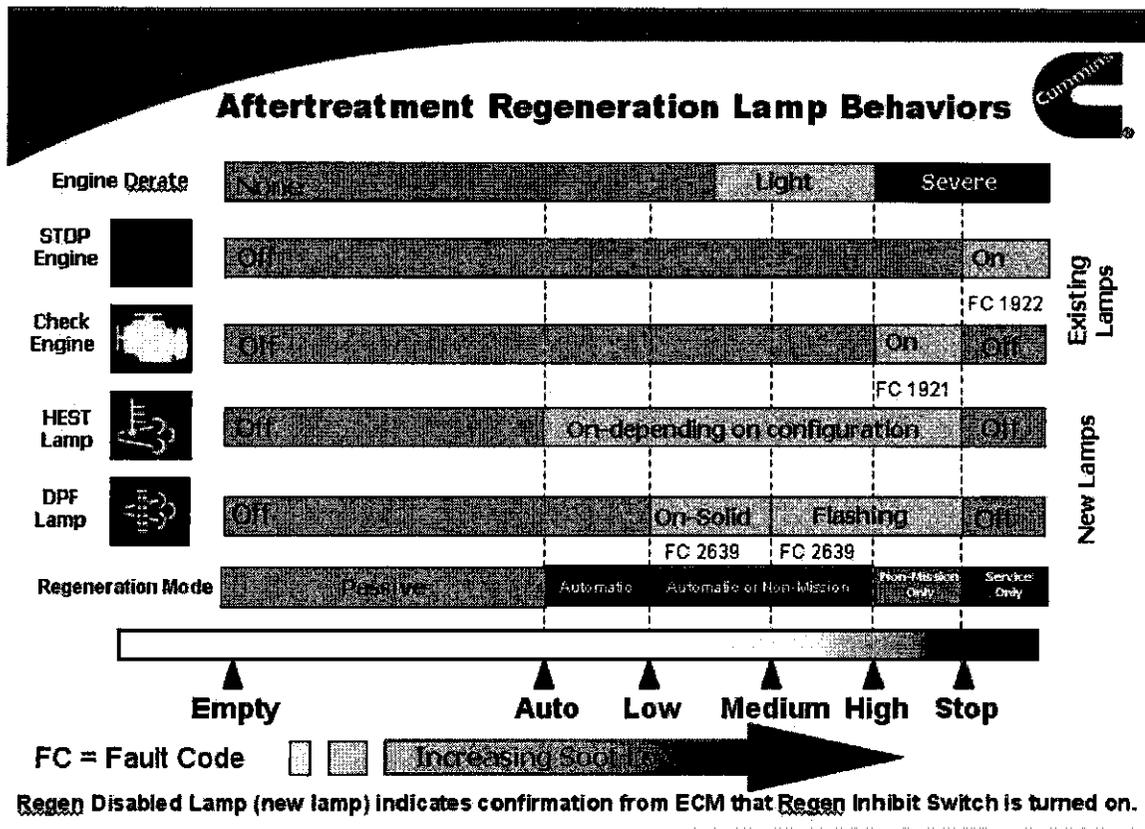
Automatic regeneration- This occurs during "in missions" engine operation. Based on the inputs to the DPF, the control system will initiate automatic regeneration when necessary. The temperature in the exhaust during normal operation are not high enough to oxidize the soot collected in the DPF faster than it is collected, the engine control system commands after treatment fuel to be injected to increase the exhaust temperature. Heat is create when the injected fuel oxidizes across the after treatment diesel oxidation catalyst. Active regeneration occurs during the normal operation of the machine. No changes to the engine operation are observed, but additional fuel is added to raise the temperature of the DPF to a level that will allow regeneration to happen.

Active regeneration occurs over 500 degree C,  $HC + O_2 = H_2O$ , then  $C + O_2 = CO_2$

Manual (non-missions) regeneration. This is initiated by the operator when the system has not been able to perform automatic regeneration during "in mission" operation. For this to occur the engine must be in its defined non-mission state and the DPF lamp must be on.

Service regeneration-This is done by a service technician

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The DPF- lamp notifies the operator the DPF is becoming filled and need assistance from the operator to regenerate within the next few hours of engine operation. When the lamp is on solid active regeneration is occurring. If the lamp is flashing the operator needs to change the duty cycle of the engine. Once the duty cycle is changed the lamp will stop flashing and return to the solid lamp. If the operator does not address the flashing lamp, then the engine stop lamp will turn on and the engine will stop operation.

Hest Lamp-indicates than higher temperatures. This system was designed for the on-road applications. Systems on school busses, the driver will know the temp is high and will disable the system to allow the children to exit the buss or the case were the unit is by combustibile materials, then the regeneration can be stopped. For this application the lamp is set at 1472 F.

Check engine lamp-indicates normal engine operation is not possible and engine service is required.

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Stationary Regeneration Switch- used to imitate manual regeneration, will function only if the DPF lamp is on.

Permit Switch- used to stop an active regeneration or to prevent the imitation of an active regeneration, for safety reasons

When the engine first starts operation, the DPF is clean, as the soot load increases to auto mode and no lamps will be activated. As the soot increases to Low level, then the DPF lamp is on solid and regeneration can start. Once the DPF lamp is past medium level, the lamp is flashing, initiate regeneration. Once the soot load is high, the DPF lamp is flashing and check engine lamp is on, initiate manual regen (need to change the engine duty cycle).

**Engine data entry**

Engine hp	314	hp
use default fuel usage	yes	
actual fuel rate	5.7	gal/hr
fuel rate	15.70	gal/hr
ues default E.F.	NO	yes/no
use PM default E.F	no	
Use 15 ppm sulfur	yes	yes/no
SOx-15 ppm sulfur	no	lb/mgal
PM10	0.96	
Nox (actual data)	1.04	g/bhp-hr
ROG (actual data)	0.007	g/bhp-hr
CO (actual data)	0.01	g/bhp-hr
PM (actual data)	0.002	g/bhp-hr
hr/dy	1	hr
dy/wk	1	dy
dy/mon	4	dy
wk/yr	50	wk

**Emissions Calculations**

	R1-lb/hr	R1-lb/dy	R2-30 dy av	R2-lb/yr
NOx	0.72	0.72	0.10	36
ROG	0.00	0.00	0.001	0.24
CO	0.01	0.01	0.00	0
SOx	0.0034	0.0034	0.0005	0.1692
PM	0.00138	0.00	0.0002	0.07
PM10	0.00133	0.00	0.0002	0.07

**lbNOx/hr**

$$\begin{aligned}
 &= [\text{E.F., g/bhp-hr}] [\text{Rating, hp}] \\
 &= [1.0 \text{ g/bhp-hr}] [314 \text{ hp}] [1 \text{ lb}/454 \text{ g}] \\
 &= [0.72 \text{ lb/hr}]
 \end{aligned}$$

**lbNox/day**
$$=[\text{lbNOx/hr}][\text{hr/day}]$$
 diesel
$$=[0.72 \text{ lb/hr}][1 \text{ hr/day}]$$
$$=[0.72 \text{ lb/hr}][1 \text{ hr/day}]$$
**30 day NOx ave**
$$=[\text{lbNox/day}][\text{days/mon}]/[30 \text{ days/mon}]$$
$$=[0.72 \text{ lb/day}][4 \text{ days/mon}]/[30 \text{ days/mon}]$$
$$=[0.10 \text{ lb/day}]$$
**lbNox/year**
$$=[\text{lbNox/day}][\text{days/wk}][\text{wk/yr}]$$
$$=[0.72 \text{ lb/day}][1 \text{ days/wk}][50 \text{ wk/yr}]$$
$$=[36 \text{ lb/year}]$$
**lbCO/hr**
$$=[\text{E.F. g/bhp-hr}][\text{Rating, hp}]$$
$$=[0.0 \text{ g/bhp-hr}][314 \text{ hp}][1 \text{ lb}/454 \text{ g}]$$
$$=[0.01 \text{ lb/hr}]$$
**lbCO/day**
$$=[\text{lbCO/hr}][\text{hr/day}]$$
$$=[0.01 \text{ lb/hr}][1 \text{ hr/day}]$$
$$=[0.01 \text{ lb/day}]$$
**30 day CO ave**
$$=[\text{lbCO/hr}][\text{hr/day}]$$
$$=[0.00 \text{ lb/day}][4 \text{ days/mon}]/[30 \text{ days/mon}]$$
$$=[0.00 \text{ lb/day}]$$
**lbCO/year**
$$=[\text{lbCO/day}][\text{days/wk}][\text{wk/yr}]$$
$$=[0.01 \text{ lb/day}][1 \text{ days/wk}][50 \text{ wk/yr}]$$
$$=[0 \text{ lb/year}]$$
**lbROG/hr**
$$[\text{E.F. g/bhp-hr}][\text{Rating, hp}]$$
$$[0.01 \text{ g/bhp-hr}][314 \text{ hp}][1 \text{ lb}/454 \text{ g}]$$
$$[0.00 \text{ lb/hr}]$$
**lbROG/day**
$$[\text{lbROG/hr}][\text{hr/day}]$$
$$[0.00 \text{ lb/hr}] [1 \text{ hr/day}]$$
$$[0.00 \text{ lb/day}]$$
**30 day ROG ave**
$$[\text{lbROG/day}][\text{days/mon}]/[30 \text{ days/mon}]$$

[0.00 lb/day][4days/mon]/[30 days/mon]  
[0.00 lb/day] diesel

**lbROG/year**

[lbROG/day][days/wk][wk/yr]  
[0.00 lb/day][1days/wk][50wk/yr]  
[0 lb/year]

**lbSOx/hr**

[SOx E.F.][ gal/hr][Fuel rate]  
[nolb/mgal][15.70 gal/hr][1mgal/1000 gal]  
#####

**lbSOx/day**

[lbSOx/hr] x [hr/day]  
#####  
#####

**30 day SOx ave**

[lbSOx/day][days/mon]/[30 days/mon]  
#####  
#####

**lbSOx/year**

[lbSOx/day][days/wk][wk/yr]  
#####  
#####

**lbPM/hr**

[E.F, g/bhp-hr][Rating, hp]  
[0.00 g/bhp-hr][314 hp][1 lb/454 g]  
[0.001 lb/hr]

**lbPM/day**

[lbPM/hr][hr/day]  
[0.0014 lb/hr] [1 hr/day]  
[0.0014 lb/day]

**30 day PM ave**

[lbPM/day][days/mon]/[30 days/mon]  
[0.0014 lb/day][4days/mon]/[30 days/mon]  
[0.0002 lb/day]

**lbPM/year**

[lbPM/day][days/wk][wk/yr]  
[0.0014 lb/day][1days/wk][50wk/yr]  
[0.07 lb/year]

**lbPM10/hr**

diesel

Page 4

[PM lb/hr][0.96]

[0.0014 lb/hr] [0.96 ]

[0.001 lb/hr]

**lbPM10/dy**

[PM lb/dy][0.96]

[0.0014 lb/day] [0.96 ]

[0.001 lb/day]

**30 day ave PM10 lb/dy**

[PM 30 dy ave][0.96]

[0.0014 lb/day] [0.96 ]

[0.001 lb/day]

**lbPM10/yr**

[PM lb/yr][0.96]

[0.0692 lb/yr] [0.96 ]

[0.066 lb/yr]

### Equations

#### **A. Emissions as a function of lb/mgal or g/bhp-hr**

Emissions = E.F. (lb/mgal) \* gal/hr \* 1mgal/1000 gal

Emissions = gr/hp-hr \*hp \* 1lb/454 gr

#### **B. NSR 30 day and lb/yr values**

30 day ave = lb/hr \* hr/dy \* dy/mon \* (1mon/30 day)

lb/yr = lb/hr \* hr/dy \* dy/wk \* wk/yr



### TIER 3 SCREENING RISK ASSESSMENT REPORT

A/N: 529701  
 Fac:

Application deemed complete date: 12/01/11

**2. Tier 2 Data**

MET Factor	1.00
4 hr	0.94
6 or 7 hrs	0.84

Dispersion Factors tables

2	For Chronic X/Q
6	For Acute X/Q

Dilution Factors (ug/m3)/(tons/yr)

Receptor	X/Q	X/Qmax
Residential	2.073059361	113.5
Commercial	2.073059361	113.5

Adjustment and Intake Factors

	AFann	DBR	EVF
Residential	1	302	0.96
Worker	4.2	149	0.38





A/N: 529701

Application deemed complete date: 12/01/11

**TIER 3 RESULTS**

**5a. MICR**

MICR = CP (mg/(kg-day))<sup>-1</sup> \* Q (ton/yr) \* (X/Q) \* AFann \* MET \* DBR \* EVF \* 1E-6 \* MP

Compound	Residential	Commercial
Diesel PM from diesel-fueled internal combustion engine	2.20E-08	1.80E-08
<b>Total</b>	2.20E-08	1.80E-08
	<b>PASS</b>	<b>PASS</b>

No Cancer Burden, MICR < 1.0E-6

<b>5b. Cancer Burden</b>	<b>NO</b>
X/Q for one-in-a-million:	
Distance (meter)	2773.11
Area (km2):	2.41E+01
Population:	169,029
<b>Cancer Burden:</b>	<b>3.72E-03</b>

**6. Hazard Index**

HIA = [Q(lb/hr) \* (X/Q)max] \* AF / Acute REL

HIC = [Q(ton/yr) \* (X/Q) \* MET \* MP] / Chronic REL

Target Organs	Acute	Chronic	Acute Pass/Fail	Chronic Pass/Fail
Alimentary system (liver) - AL			Pass	Pass
Bones and teeth - BN			Pass	Pass
Cardiovascular system - CV			Pass	Pass
Developmental - DEV			Pass	Pass
Endocrine system - END			Pass	Pass
Eye			Pass	Pass
Hematopoietic system - HEM			Pass	Pass
Immune system - IMM			Pass	Pass
Kidney - KID			Pass	Pass
Nervous system - NS			Pass	Pass
Reproductive system - REP			Pass	Pass
Respiratory system - RES		1.38E-05	Pass	Pass
Skin			Pass	Pass

A/N: 529701

Application deemed complete date: 12/01/11

6a. Hazard Index Acute

$HIA = [Q(\text{lb/hr}) * (X/Q)_{\text{max}}] * AF / \text{Acute REL}$

HIA - Residential

Compound	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Diesel PM from diesel-fueled internal combustion engine										
<b>Total</b>										

Compound	HIA - Commercial									
	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Diesel PM from diesel-fueled internal combustion engine										
Total										

6b. Hazard Index Chronic

$$HIC = [Q(\text{ton/yr}) * (X/Q) * \text{MET} * \text{MP}] / \text{Chronic REL}$$

		HIC - Residential											
Compound	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Diesel PM from diesel-fueled internal combustion engine												1.38E-05	
<b>Total</b>												1.38E-05	

6b. Hazard Index Chronic (cont.)

A/N: 529701

Application deemed complete date:

12/01/11

Compound	HIC - Commercial										RESP	SKIN	
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS			REP
Diesel PM from diesel-fueled internal combustion engine												1.38E-05	
<b>Total</b>												1.38E-05	

**Table A**

Modeling emissions rate	0.126000	gr/sec
Modeling emissions rate	1.00	lb/hr
Modeling emissions rate	4.38	tons/yr
Max hr/dy	24	hr/day
Day per week	7	dy/wk
Week per year	52	wk/yr
<b>MODELING RESULTS -MAX ONE HOUR</b>		
Distance residence	25.00	meter
Max. 1-hour Conc. Residence	113.400000	ug/m3
Annualized Conc. Residence	9.072000	ug/m3
Distance Commerical	25.00	meter
Max. 1-hour Conc. Commerical	113.400000	ug/m3
Annualized Conc. Commerical	9.072000	ug/m3

**Annualized X/Q**

X/Q Residential	2.073059361	(ug/m <sup>3</sup> )/(tons/yr)
X/Q Commercial	2.073059361	(ug/m <sup>3</sup> )/(tons/yr)

**Max. X/Q**

X/Q Residential	113.5	(ug/m <sup>3</sup> )/(lbs/hr)
X/Q Commercial	113.5	(ug/m <sup>3</sup> )/(lbs/hr)

**Table B (These values are needed to calculate cancer burden)**

	Interpolation								
	Stack Height (ft): 10			Row: 1					
	Residential			Industrial			X/Q for one-in-a-million		
	near	actual	far	near	actual	far	near	actual	far
Distance	1500.00	25.00	2000.00	1500.00	25.00	2000.00	1500.00	#NAME?	2000.00
X/Q - 1 hr conc ug/m <sup>3</sup>	9.09	113.40	5.52	9.09	113.40	5.52	9.09	#NAME?	5.52
X/Q Annualized (ug/m <sup>3</sup> )/(tons/yr)	0.17	2.07	0.10	0.17	2.07	0.10	0.17	#NAME?	0.10

**CONVERSION CALCULATOR FOR SCREEN MODELING INPUT (British to Metric Units)**

**SCREEN INPUT DATA - BRITISH UNITS**

Actual exhausted rate	1099.00	acfm
Temperature	973.00	degree F
Stack diameter	6.00	in
Stack height	9.00	ft
Modeling emissions rate	1.00	lb/hr

**SCREEN INPUT DATA - METRIC UNITS**

Temperature	795.778	degrees K
Stack diameter	0.152	meter
Stack area	0.018	square meter
Stack height	2.743	meter
Stack velocity	28.448	m/s
Modeling emissions rate	0.12611	gr/s

C:\Users\ROLIVA\1\DOCUMENT1\CLARY\SCREEN3\screen3.exe

ENTER TERRAIN HEIGHT OF 0.0 ABOVE STACK BASE USED FOR FOLLOWING DISTANCES

DIST (M)	CONC (UG/M <sup>3</sup> )	STAB	U10M (M/S)	USTK (M/S)	RIM HT (M)	PLUME HT (M)	STGHD Y (M)	STGHD Z (M)	DIRCH
25	113.4	4	1.0	1.0	2560.0	5.44	4.01	3.52	NO
100	56.74	4	1.0	1.0	480.0	11.20	16.22	14.40	NO
200	28.37	4	1.0	1.0	320.0	24.43	31.41	27.09	NO
300	18.91	6	1.0	1.0	1000.0	27.54	51.93	21.18	NO
400	14.23	6	1.0	1.0	1000.0	27.54	41.46	25.27	NO
500	11.38	6	1.0	1.0	1000.0	27.54	50.71	31.06	NO
600	9.57	6	1.0	1.0	1000.0	27.54	59.69	35.54	NO
700	8.26	6	1.0	1.0	1000.0	27.54	65.43	39.75	NO
800	7.29	6	1.0	1.0	1000.0	27.54	76.92	43.73	NO
900	6.57	6	1.0	1.0	1000.0	27.54	85.19	47.50	NO
1000	6.00	6	1.0	1.0	1000.0	27.54	93.24	51.09	NO

ITERATING TO FIND MAXIMUM CONCENTRATION

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 25.0 M:

25	113.4	4	1.0	1.0	2560.0	5.44	4.01	3.52	NO
----	-------	---	-----	-----	--------	------	------	------	----

USE DISCRETE DISTANCES? ENTER Y OR N:

Annualized X/Q

X/Q Residential	0.914047337	(ug/m <sup>3</sup> )(tons-yr)
X/Q Commercial	1.279666272	(ug/m <sup>3</sup> )(tons-yr)

Max X/Q

X/Q Residential	50.04409171	(ug/m <sup>3</sup> )(lbs/hr)
X/Q Commercial	70.0617284	(ug/m <sup>3</sup> )(lbs/hr)

Calculator for SCREEN MODELING INPUT (British to Metric Unit)

SCREEN INPUT DATA - BRITISH UNITS

Actual exhausted rate	1099.00	acfm
Temperature	973.00	degree F
Stack diameter	6.00	in
Stack height	9.00	ft
Modeling emissions rate	1.00	lb/hr

SCREEN INPUT DATA - METRIC UNITS

Temperature	795.778	degrees K
Stack diameter	0.152	meter
Stack area	0.018	square meter
Stack height	2.743	meter
Stack velocity	28.448	m/s

C:\Users\ROLIVA\1\DOCUMENT1\CLARY\SCREEN3\screen3.exe

ENTER STACK HEIGHT (M): 2.73

ENTER STACK INSIDE DIAMETER (M): 0.152

ENTER STACK GAS EXIT VELOCITY OR FLOW RATE.

OPTION 1: EXIT VELOCITY (M/S):  
DEFAULT - ENTER NUMBER ONLY

OPTION 2: VOLUME FLOW RATE (M<sup>3</sup>/S):  
EXAMPLE "10\*20.00"

OPTION 3: VOLUME FLOW RATE (ACFM):  
EXAMPLE "10\*1000.00"

20.448

ENTER STACK GAS EXIT TEMPERATURE (K): 795

ENTER AMBIENT AIR TEMPERATURE (USE 285 FOR DEFAULT) (K): 285

ENTER RECEPTOR HEIGHT ABOVE GROUND (FOR FLAGPOLE RECEPTOR) (M):

ENTER URBAN/RURAL OPTION (U=URBAN, R=RURAL):

CONSIDER BUILDING DOWNWASH IN CALCS? ENTER Y OR N:

USE COMPLEX TERRAIN SCREEN FOR TERRAIN ABOVE STACK HEIGHT? ENTER Y OR N:

Brian title v letters  
 Brian XPP overtime  
 Cal state fuller-ton  
 CLARY  
 MET  
 SCREEN  
 SCREEN3  
 College  
 CompareSuitePRO  
 CPV files  
 CPV Sentinel

modified | Type | Size | Tags

2012 8:25 AM	DAT File	0 KB	
2010 6:15 AM	Shortcut	1 KB	
2012 8:26 AM	OUT File	0 KB	
2010 2:57 PM	Shortcut	1 KB	
2010 6:14 AM	Shortcut	1 KB	
1995 9:34 AM	Application	245 KB	
2003 7:56 AM	Shortcut to MS-DOS...	3 KB	

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

**IT IS ORDERED AND RESOLVED:** That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2012	CCEXL06.7AAF	6.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, and Periodic Trap Oxidizer			Generator Set	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 560	Tier 4 Alt NOx	STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.01	1.4	--	0.00	0.003	--	--	--

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

**This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.**

Executed at El Monte, California on this 1 day of July 2011.

  
Annette Hebert, Chief  
Mobile Source Operations Division

*Handwritten notes:*  
NOx: 1.4  
CO: 0.003  
PM: 0.02  
...  
See 21 3/4/11

# Engine Model Summary Tenure Date

U-11-002-0574  
 Attached  
 6/24/2011

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate:		5.Fuel Rate:		6.Torque @ RPM (SEA Gross)	7.Fuel Rate:		8.Fuel Rate: (lbs/hr)/@peak torque	9.Emission Control Device Per SAE J1930
				mm/stroke @ peak HP (for diesel only)	mm/stroke @ peak HP (for diesels only)	mm/stroke @ peak torque	mm/stroke @ peak torque					
CCEXL06.7AAF	3277:FR92976	QSB7-G	340@1800	199	114.2	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
CCEXL06.7AAF	3277:FR92857	QSB7-G	314@1800	191	109.6	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
CCEXL06.7AAF	3277:FR92857	QSB7-G	274@1500	195	95.1	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
CCEXL06.7AAF	3277:FR93508	QSB7-G	256@1800	144	87.3	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
CCEXL06.7AAF	3277:FR93508	QSB7-G	222@1500	155	78.4	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
CCEXL06.7AAF	3094:FR93515	QSB7	250@2000	126	84.8	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
CCEXL06.7AAF	3094:FR93516	QSB7	220@2000	111	75.1	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC
CCEXL06.7AAF	3094:FR93517	QSB7	190@2000	99	66.7	N/A	N/A	N/A	N/A	N/A	N/A	DDI,ECM,TC,CAC,EGR, PTOX,OC



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
2012 MODEL YEAR  
CERTIFICATE OF CONFORMITY  
WITH THE CLEAN AIR ACT OF 1990

OFFICE OF TRANSPORTATION  
AND AIR QUALITY  
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: **Cummins Inc.**  
(U.S. Manufacturer or Importer)  
Certificate Number: CCEXL06.7AAF-001

Effective Date:  
05/05/2011  
Expiration Date:  
12/31/2012

  
Karl J. Simon, Director  
Compliance and Innovative Strategies Division

Issue Date:  
05/05/2011  
Revision Date:  
N/A

**Model Year:** 2012  
**Manufacturer Type:** Original Engine Manufacturer  
**Engine Family:** CCEXL06.7AAF

**Mobile/Stationary Indicator:** Both  
**Emissions Power Category:** 130<kW<=560  
**Fuel Type:** Diesel  
**After Treatment Devices:** Diesel Oxidation Catalyst, PTOX-DPF-Active  
**Non-after Treatment Devices:** Electronic/Electric EGR - Cooled, Electronic Control

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Parts 60 and 1039, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Parts 60 and 1039 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Parts 60 and 1039 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Parts 60 and 1039.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Parts 60 and 1039. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Parts 60 and 1039.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.