South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 · www.aqmd.gov

November 22, 2011

Mr. Gerardo Rios (R9Airpermits_sc@epa.gov)
Chief, Permits Office
US EPA, Region IX- Air 3.
75 Hawthorne Blvd.
San Francisco, CA 94105

Dear Mr. Rios:

Los Angeles County, Sheriff Dept. has proposed to revise their Title V permit by modifying two boilers and cancelling eleven permits (equipment removed from service). This is a prison facility (NAICS 92214) located at 29300 The Old Road, Saugus, CA 91384. This proposed permit revision is considered as a "minor 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 November 22, 2011.

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

Very truly yours,

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

BLY:AYL:JTY:RDO
Enclosure

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

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

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, 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
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

| Application number | Permit to Operate number | Equipment description |
|---|---|---|
| 385188 | F39201 | ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL |
| 208265 | D19700 | ICE (50-500 BHP), EM FIRE PUMP, DIESEL |
| 385189 | F39202 | ICE (>500 BHP), EM ELECTRICAL, GEN, DIESEL |
| 349169 | F42176 | BOILER, NAT GAS & OIL, 68.9 MMBTU |
| 285837 | D77661 | SPRAY BOOTH PAINT & SOLVENT |
| 477207 | F97277 | TURBINE ENGINE (<=50 MW)NATGAS-MISC FUEL |
| 287364 | D78741 | AIR POLLUTION CONTROL SYSTEM |
| 487830 | N22770 | FUEL STORAGE & DISPENSING FAC., GASOLINE |
| 344951 | F16068 | ICE (>500 BHP), EM-GEN, DIESEL |
| 363119 | F50557 | SPRAY BOOTH PAINT & SOLVENT |
| 363120 | F46670 | ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL |
| 363125 | F46671 | ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL |
| 497573 | G6367 | ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL |
| 497574 | G6368 | ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL |
| 497575 | G6396 | ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL |
| 497576 | G3670 | ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL |
| 516707 | G15794 | ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL |
| 516708 | G15795 | ICE (50-500 BHP), EM ELECTRICAL 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
# LOS ANGELES COUNTY, SHERIFF DEPT.

## 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 CONTAMINANT 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 RINGLEMANN 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 0.0015 PERCENT BY WEIGHT.
   [RULE 431.2]

3. ACCIDENTAL RELEASE PREVENTION REQUIREMENTS OF SECTION 112 ( r ) (7):

   THE OPERATOR SHALL COMPLY WITH THE ACCIDENTAL RELEASE PREVENTION REQUIREMENTS PURSUANT TO 40 CFR Part 68 AND SHALL SUBMIT TO THE EXECUTIVE OFFICER, AS PART OF ANNUAL COMPLIANCE CERTIFICATION, A STATEMENT THAT CERTIFIES COMPLIANCE WITH ALL THE REQUIREMENTS OF 40 CFR Part 68, INCLUDING THE REGISTRATION AND SUBMISSION OF A RISK MANAGEMENT PLAN (RMP).

   THE OPERATOR SHALL SUBMIT ANY ADDITIONAL RELEVANT INFORMATION REQUESTED BY THE EXECUTIVE OFFICER OR DESIGNATED AGENCY.
   [40 CFR68-ACCIDENTAL RELEASE PREVENTION]

1. THE FACILTY SHALL SUBMIT A RULE 1472 COMPLIANCE PLAN ON OR BEFORE JANUARY 1, 2011.
   [RULE 1472]

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. F39201**
**A/N 385188**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CATERPILLAR, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 3516, SERIAL NO. 25Z01131, TURBOCHARGED, AFTERCOOLED, 16 CYLINDERS, 2149 BHP.

**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. A NON-RESETTABLE TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2, RULE 1470]

4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR WHICH INCLUDES NOT MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING.
[RULE 1304(a), RULE 1110.2, RULE 1470]

5. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

   A. EMERGENCY USE HOURS OF OPERATION

   B. MAINTENANCE AND TESTING HOURS

   C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

   IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF THREE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1304(a), RULE 1110.2, RULE 1470]

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

6. THE OPERATION OF ENGINE BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING 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 ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY 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 1304(a)(1)-BACT, 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 1304(a)(1)-BACT, RULE 1470]

8. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 431.2, RULE 1470]

**Emissions And Requirements:**

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

   PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No.D19700**
**A/N 208265**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CATERPILLAR, DIESEL-FUELED, MODEL NO. 3208, 8 CYLINDERS, FOUR CYCLE, NATURALLY ASPIRATED, DRIVING AN EMERGENCY FIRE PUMP, 141 BHP.

**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. A NON-RESETTABLE TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2, RULE 1470]

4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR WHICH INCLUDES NOT MORE THAN 34 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING.
[RULE 1304(a), RULE 1110.2, RULE 1470]

5. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

A. EMERGENCY USE HOURS OF OPERATION

B. MAINTENANCE AND TESTING HOURS

C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF THREE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1304(a), RULE 1110.2, RULE 1470]

6. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 431.2, RULE 1470]

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**Emissions And Requirements:**

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

   PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. F39202**
**A/N 385189**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CATERPILLAR, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 3516, SERIAL NO. 25Z01133, TURBOCHARGED, AFTERCOOLED, 16 CYLINDERS, 2149 BHP.

**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. A NON-RESETTABLE TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2, RULE 1470]

4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR WHICH INCLUDES NOT MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING.
[RULE 1304(a), RULE 1110.2, RULE 1470]

5. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

   A. EMERGENCY USE HOURS OF OPERATION

   B. MAINTENANCE AND TESTING HOURS

   C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

   IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF THREE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1304(a), RULE 1110.2, RULE 1470]

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6. THE OPERATION OF ENGINE BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING 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 ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY 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 1304(a)(1)-BACT, 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 1304(a)(1)-BACT, RULE 1470]

8. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 431.2, RULE 1470]

**Emissions And Requirements:**

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

   PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. F42177**
**A/N 349167**

**Equipment Description:**

BOILER, KEELER, WATER TUBE TYPE, MODEL NUMBER DS-10-13, SERIAL NO. 15396-1, WITH ONE COEN LOW-NOX BURNER, MODEL 200 11632-1, NATURAL GAS OR FUEL OIL BURNER, RATED AT 68,900,000 BTU/HOUR, WITH A 40 HP COMBUSTION AIR BLOWER.

**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 OPERATED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF RULE 1146.
[RULE 1146]

4. THIS EQUIPMENT SHALL COMPLY WITH THE NOX EMISSIONS LIMITS of 9 PPMV BY 1/1/2012.
[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 BE FIRED WITH NATURAL GAS ONLY, EXCEPT DURING PERIODS OF NATURAL GAS CURTAILMENT, DURING MAINTENANCE TESTING WITH THE STAND BY FUEL NOT TO EXCEED 6 HOURS PER MONTH, AND DURING COMPLIANCE TESTING.
[RULE 1303(a)(1)-BACT]

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8. THIS BOILER SHALL EMIT NO MORE THAN 30 PPM OF OXIDES OF NITROGEN (NOX) CALCULATED AS NO2, AND 400 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN.
[RULE 1146]

9. THIS BOILER IS A BACK-UP BOILER FOR THE HONOR RANCHO FACILITY'S COGENERATION SYTEM (GAS TURBINE AND WASTE HEAT BOILER), AND SHALL NOT BE OPERATED WHENEVER THE COGENERATION SYSTEM IS IN OPERATION.
[RULE 1303(b)(2)-OFFSET]

11. THE OPERATOR OF THIS BOILER SHALL FOLLOW THE PORCEDURES SPECIFIED BY THE MANAUFACTURER TO TUNE-UP AND MAINTAIN THE COMBUSTION SYSTEM (INCLUDING BUT NOT LIMITED TO BURNERS AND AIR/FUEL CONTROL DEVICES) OF THIS BOILERTO ASSURE CONTINUED COMPLIANCE WITH THE EMISSIONS LIMITS IN CONDITION NO. 8.
[RULE 1146]

12. RECORDS SHALL BE KEPT BY THE OPERATOR TO DEMONSTATE COMPLIANCE WITH CONDITION NO. 8. THE RECORDS SHALL BE KEPT FOR FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1146]

**Periodic Monitoring:**

13. 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)]

14. 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)]

15. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF DIESEL FUEL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT

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IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:

A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR

B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

A. STACK OR EMISSION POINT IDENTIFICATION;

B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;

C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND

D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

**Emissions And Requirements:**

16. IF THIS BOILER BURNS MORE THAN 200,000,000,000 (200 BILLION) BTUS OF FUEL IN ANY ONE CALENDAR YEAR, THE BOILER OPERATOR SHALL INSTALL AND OPERATE BY MARCH 1 OF THE FOLLOWING YEAR, OR JULY 1, 1993, WHICHEVER IS LATER, AN OXIDES OF NITROGEN CONTINUOUS EMISSION MONITORING SYSTEM THAT IS APPROVED BY THE EXECUTIVE OFFICER IN ACCORDANCE WITH RULE 218(b) AND SHALL CONTINUE TO OPERATE IT FOR THE LIFE OF THE BOILER.
[RULE 1146, 218(b)]

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

| | |
|---|---|
| NOx: | 30 PPMV, RULE 1146 |
| CO: | 400 PPMV, RULE 1146 |
| CO: | 2000 PPMV, RULE 407 |
| PM: | 0.1 GR/SCF, RULE 409 |
| NOx | 9 PPMV, RULE 1146, EFFECTIVE 1/1/2012 |

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. F42176**
**A/N 349169**

**Equipment Description:**

BOILER, KEELER, WATER TUBE TYPE, MODEL NUMBER DS-10-13, SERIAL NO. 15396-2, WITH ONE COEN LOW-NOX BURNER, MODEL 200 11632-1, NATURAL GAS OR FUEL OIL BURNER, RATED AT 68,900,000 BTU/HOUR A 40 HP COMBUSTION AIR BLOWER

**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 OPERATED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF RULE 1146.
[RULE 1146]

4. THIS EQUIPMENT SHALL COMPLY WITH THE NOX EMISSIONS LIMITS of 9 PPMV BY 1/1/2012.
[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 BE FIRED WITH NATURAL GAS ONLY, EXCEPT DURING PERIODS OF NATURAL GAS CURTAILMENT, DURING MAINTENANCE TESTING WITH THE STAND BY FUEL NOT TO EXCEED 6 HOURS PER MONTH, AND DURING COMPLIANCE TESTING.
[RULE 1303(a)(1)-BACT]

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8. THIS BOILER SHALL EMIT NO MORE THAN 30 PPM OF OXIDES OF NITROGEN (NOX) CALCULATED AS NO2, AND 400 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN.
[RULE 1146]

9. THIS BOILER IS A BACK-UP BOILER FOR THE HONOR RANCHO FACILITY'S COGENERATION SYTEM (GAS TURBINE AND WASTE HEAT BOILER), AND SHALL NOT BE OPERATED WHENEVER THE COGENERATION SYSTEM IS IN OPERATION.
[RULE 1303(b)(2)-OFFSET]

11. THE OPERATOR OF THIS BOILER SHALL FOLLOW THE PORCEDURES SPECIFIED BY THE MANAUFACTURER TO TUNE-UP AND MAINTAIN THE COMBUSTION SYSTEM (INCLUDING BUT NOT LIMITED TO BURNERS AND AIR/FUEL CONTROL DEVICES) OF THIS BOILERTO ASSURE CONTINUED COMPLIANCE WITH THE EMISSIONS LIMITS IN CONDITION NO. 8.
[RULE 1146]

12. RECORDS SHALL BE KEPT BY THE OPERATOR TO DEMONSTATE COMPLIANCE WITH CONDITION NO. 8. THE RECORDS SHALL BE KEPT FOR FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1146]

**Periodic Monitoring:**

13. 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)]

14. 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)]

15. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF DIESEL FUEL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT

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IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:

C. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR

D. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

E. STACK OR EMISSION POINT IDENTIFICATION;

F. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;

G. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND

H. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

**Emissions And Requirements:**

16. IF THIS BOILER BURNS MORE THAN 200,000,000,000 (200 BILLION) BTUS OF FUEL IN ANY ONE CALENDAR YEAR, THE BOILER OPERATOR SHALL INSTALL AND OPERATE BY MARCH 1 OF THE FOLLOWING YEAR, OR JULY 1, 1993, WHICHEVER IS LATER, AN OXIDES OF NITROGEN CONTINUOUS EMISSION MONITORING SYSTEM THAT IS APPROVED BY THE EXECUTIVE OFFICER IN ACCORDANCE WITH RULE 218(b) AND SHALL CONTINUE TO OPERATE IT FOR THE LIFE OF THE BOILER.
[RULE 1146, 218(b)]

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

| | |
|---|---|
| NOx: | 30 PPMV, RULE 1146 |
| CO: | 400 PPMV, RULE 1146 |
| CO: | 2000 PPMV, RULE 407 |
| PM: | 0.1 GR/SCF, RULE 409 |
| NOx | 9 PPMV, RULE 1146, EFFECTIVE 1/1/2012 |

# FACILITY PERMIT TO OPERATE
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## PERMIT TO OPERATE

**Permit No. D77661**
**A/N 285837**

**Equipment Description:**

SPRAY BOOTH, BINKS AUTOMOTIVE, MODEL NO. SSA-630, 12'-0" W X 23'-1" L X 8'-2" H, WITH 60 SQUARE FOOT AREA EXHAUST FILTERS AND ONE 2 HP EXHAUST FAN.

**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 SPRAY BOOTH SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH FILTER MEDIA AT LEAST 2 INCHES THICK.
[RULE 1303(a)(1)-BACT]

4. A GAUGE SHALL BE INSTALLED TO INDICATE IN INCHES OF WATER THE STATIC PRESSURE DIFFERENTIAL ACROSS THE FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL MUST NOT EXCEED 0.25 INCHES OF WATER.
[RULE 1303(a)(1)-BACT]

5. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH RULES 1151 AND 1171.
[RULE 1151, 1171]

6. COATINGS, ADHESIVES, REDUCERS, THINNERS AND WASH SOLVENTS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY COMPOUNDS IDENTIFIED AS CARCINOGENIC AIR CONTAMINANTS IN RUEL 1401 AS AMENDED DECEMBER 7, 1990.
[RULE 1401]

7. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THE USE OF COATINGS, THINNERS, REDUCERS AND CLEAN-UP SOLVENTS IN THIS EQUIPMENT SHALL NOT EXCEED 25 POUNDS IN ANY ONE DAY OR 300 POUNDS IN ANY ONE CALENDER MONTH.
[RULE 1303(b)(2)-OFFSET]

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**Periodic Monitoring:**

8. IN ADDITION TO THE REQUIREMENT OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY (AND CALENDER MONTHLY) VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS IN POUNDS AND THE VOC CONTENT OF EACH MATERIAL AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE UPON REQUEST OF THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE.
[RULE 1303(b)(2)-OFFSET, RULE 1401]

9. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER MEDIA ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

10. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
    A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA;
    B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
    C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
    [RULE 3004 (a)(4)]

**Emissions And Requirements:**

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

    VOC: RULE 109
    VOC: RULE 1151, SEE APPENDIX B FOR EMISSION LIMITS
    VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
    PM: RULE 481
    PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. F97277**
**A/N 477207**

**Equipment Description:**

COGENERATION SYSTEM (UNIT 1) CONSISTING OF:

1. GAS TURBINE, GENERAL ELECTRIC, LM2500-33, RATED AT 228,999,000 BTU PER HOUR, NATURAL GAS OR FUEL OIL FIRED, WITH A WATER INJECTION SYSTEM, DRIVING A 22.35 MW ELECTRIC GENERATOR.

2. BOILER, NOOTER, WASTE HEAT RECOVERY, UNFIRED, PRODUCING 66745 POUNDS SUPERHEATED STEAM PER HOUR AT 600 PSIG, 7800 POUNDS SATURATED STEAM PER HOUR AT 150 PSIG, AND 7090 POUNDS SATURATED STEAM PER HOUR AT 5 PSIG.

3. STEAM TURBINE, CONDENSING - EXTRACTION, DRIVING A 6.4 KW 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.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]

4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1134, 1303(a)(1)-BACT]

5. THE MAXIMUM FUEL CONSUMPTION FOR THIS EQUIPMENT SHALL NOT EXCEED THE FOLLOWING:

| | |
|---|---|
| NATURAL GAS | 5,532,672 SCF/DAY |
| FUEL OIL | 18,448 GAL/DAY |

[RULE 1303(b)(2)-OFFSET]

# FACILITY PERMIT TO OPERATE
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6. FUEL OIL SHALL ONLY BE USED DURING PERIODS OF NATURAL GAS CURTAILMENT AND FOR A PERIOD NOT TO EXCEED 10.5 HOURS IN ANY ONE DAY OR FOR TESTING PURPOSES FOR PERIODS NOT TO EXCEED 10.5 HOURS IN ANY ONE DAY AND 100 HOURS IN ONE CALENDAR YEAR.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

7. WATER INJECTION SHALL BE USED WHENEVER THE GAS TURBINE GENERATOR OUTPUT EXCEEDS 5 MW AT A WATER TO FUEL MASS RATIO OF NOT LESS THAN 0.3 TO 1.0 FOR NATURAL GAS FIRING AND NOT LESS THAN 0.7 TO 1.0 FUEL OIL FIRING EXCEPT DURING STARTUP PERIODS.
[RULE 1134, 1303(a)(1)-BACT]

8. A CONTINUOUS MONITORING SYSTEM SHALL BE OPERATED TO MEASURE AND RECORD THE FUEL CONSUMPTION AND THE MASS RATIO TO WATER-TO-FUEL BEING FIRED IN THE TURBINE. THIS SYSTEM SHALL BE ACCURATE TO WITHIN + OR - 5.0 PERCENT. THIS MONITORING SYSTEM SHALL BE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
[RULE 1134, 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

9. A CONTINUOUS MONITORING SYSTEM SHALL BE OPERATED TO MEASURE THE WASTE HEAT BOILER EXHAUST FOR NOX, O2, AND CO CONCENTRATIONS ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NOX AND CO CONCENTRATIONS TO CORRECTED NOX AND CO CONCENTRATIONS AT 15% O2 ON A DRY BASIS, CONTINUOUSLY RECORD THE STACK NOX, CO AND O2 CONCENTRATIONS AT 15% O2, AND STACK NOX AND CO HOURLY AND DAILY EMISSIONS. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF RULE 218 AND SHALL BE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
[RULE 218, 1134, 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

10. EMISSIONS OF OXIDES OF NITROGEN, AS NO2, SHALL NOT EXCEED 9 PPMV, CALCULATED AT 15% O2 DRY, BASED ON A RUNNING FIFTEEN MINUTE AVERAGING TIME EXCEPT DURING THE STARTUP PERIODS NOT TO EXCEED 30 MINUTES DURING EACH STARTUP.
[RULE 429, 1134, 1303(a)(1)-BACT]

11. EMISSIONS OF CARBON MONOXIDE SHALL NOT EXCEED 10 PPMV WHEN FIRING NATURAL GAS AND 29 PPMV WHEN FIRING FUEL OIL, CALCULATED AT 15% O2 DRY, BASED ON A RUNNING FIFTEEN MINUTE AVERAGING TIME EXCEPT DURING THE STARTUP PERIODS NOT TO EXCEED 30 MINUTES DURING EACH STARTUP.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

12. EMISSIONS OF ALDEHYDES, AS FORMALDEHYDE, SHALL NOT EXCEED 2.5 PPMV, CALCULATED AT 15% O2 DRY.
[RULE 1401]

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13. THE TOTAL EMISSIONS FROM THE WASTE HEAT BOILER EXHAUST SHALL NOT EXCEED THE FOLLOWING IN ANY ONE DAY EXCEPT DURING STARTUP PERIODS:

| | (GAS AND OIL FIRED) | (GAS FIRED) |
|---|---|---|
| AIR CONTAMINANT | LBS DAY | LBS/DAY |
| ROG (METHANE AND NON-METHANE ) | 60 | 9 |
| NITROGEN OXIDES (AS N02) | 197 | 191 |
| SULFUR DIOXIDE | 298 | 1 |
| PARTICULATE MATTER | 180 | 11 |
| CARBON MONOXIDE | 252 | 130 |

[RULE 429, 1303(b)(2)-OFFSET]

14. A CONTINUOUS MONITORING SYSTEM SHALL BE OPERATED TO MEASURE AND RECORD THE MOLE RATIO OF INJECTED AMMONIA-TO-GAS TURBINE OUTLET NOX. THE SYSTEM SHALL BE ACCURATE TO WITHIN + OR - 5.0 PERCENT. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF RULE 218 AND SHALL BE APPROVED IN WRITING BY THE EXECUTI VE OFFICER.
[RULE 218, 1303(a)(1)-BACT]

15. THE OWNER/OPERATOR SHALL CONDUCT ANNUAL PERFORMANCE TESTS IN ACCORDANCE WITH SCAQMD TEST PROCEDURES AND FURNISH SCAQMD A WRITTEN RESULT OF SUCH PERFORMANCE TESTS. WRITTEN NOTICE OF THE PERFORMANCE TEST SHALL BE PROVIDED TO THE SCAQMD 7 DAYS PRIOR TO THE TEST SO THAT AN OBSERVER MAY BE PRESENT. THE PERFORMANCE TESTS WILL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE EXHAUST STREAM DIRECTLY IN THE STACK, DURING NATURAL GAS FIRING AND DURING FUEL OIL FIRING FOR:

A. HYDROCARBONS (METHANE AND NON-METHANE).

B. NH3 (STACK ONLY).

C. MOISTURE.

D. PARTICULATES (FUEL OIL FIRING ONLY).

E. ALDEHYDES.

F. OXIDES OF NITROGEN EMISSIONS (AS $NO_2$).

G. CARBON MONOXIDE.

H. OXYGEN

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TEST PROCEDURES SET FORTH IN 40 CFR, SUBPART GG, SECTION 60.335 SHALL BE FOLLOWED. A SOURCE TESTING PLAN SHALL BE SUBMITTED TO THE DISTRICT AND APPROVED IN WRITING BY THE EXECUTIVE OFFICER PRIOR TO ANY TESTS. CERTIFIED EMISSION MONITORS CAN BE USED TO DEMONSTRATE COMPLIANCE FOR ITEMS F, G, AND H.
[RULE 1134, 1303(a)(1)-BACT, 1303(b)(2)-OFFSET, 40CFR60 SUBPART GG]

16. SAMPLING PORTS SHALL BE PROVIDED IN THE GAS TURBINE EXHAUST DUCT AND AFTER THE WASTE HEAT BOILER, 8-10 DUCT DIAMETERS DOWNSTREAM AND TWO DUCT DIAMETERS UPSTREAM OF ANY FLOW DISTURBANCE. AT EACH LOCATION, TWO SAMPLING PORTS AT 90 DEGREES APART SHALL BE PROVIDED AND SHALL CONSIST OF TWO 4 INCH WELDED NIPPLES WITH PLUGS. AN EQUIVALENT METHOD OF EMISSION SAMPLING MAY BE USED UPON APPROVAL OF THE DISTRICT. ADEQUATE AND SAFE ACCESS SHALL BE PROVIDED BY THE OWNER/OPERATOR.
[RULE 217]

17. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED ON FILE FOR AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER UPON REQUEST.
[RULE 1303(b)(2)-OFFSET]

18. THE COOLING TOWER SHALL BE DESIGNED FOR A MAXIMUM DRIFT LOSS OF 0.002% OF TOTAL CIRCULATING WATER.
[RULE 1303(a)(1)-BACT]

19. THE MAXIMUM WATER CIRCULATION RATE IN THE COOLING TOWER SHALL BE DESIGNED TO NOT EXCEED 5100 GPM.
[RULE 1303(a)(1)-BACT]

20. THE COOLING WATER TREATMENT SHALL NOT CONTAIN ANY TOXIC COMPOUNDS, INCLUDING CHROMATE.
[RULE 1401]

21. THE TOTAL SOLIDS CONCENTRATION IN THE CIRCULATING COOLING WATER, INCLUDING DISSOLVED AND SUSPENDED SOLIDS, SHALL NOT EXCEED 3200 PPMV.
[RULE 1303(a)(1)-BACT]

22. THE OWNER/OPERATOR SHALL PERFORM TOTAL SOLIDS DETERMINATIONS ON THE CIRCULATING COOLING WATER AT A FREQUENCY CONSISTENT WITH NORMAL PLANT MAINTENANCE PRACTICES OR AT MINIMUM ON A QUARTERLY BASIS AND MAINTAIN WRITTEN RESULTS OF SUCH TESTS.
[RULE 1303(a)(1)-BACT]

23. A CONTINUOUS MONITORING SYSTEM SHALL BE OPERATED TO MEASURE AND RECORD THE VOLUMETRIC FLOW RATE IN THE EXHAUST STACK. THIS MONITORING SYSTEM SHALL BE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
[1303(a)(1)-BACT]

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24. THIS PROJECT IS SUBJECT TO THE STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES (40 CTR 60, SUBPARTS "A" AND "GG").
[40CFR60 SUBPARTS A AND GG]

25. THE OPERATOR SHALL KEEP THE FOLLOWING RECORDS:

    A. A DAILY LOG SHOWING THE QUANTITY OF NATURAL GAS BURNED IN EACH HOUR.

    B. A DAILY LOG, IF FUEL OIL WAS USED, SHOWING THE REASON WHY NATURAL GAS WAS NOT USED, THE NUMBER OF HOURS DURING WHICH FUEL OIL WAS USED, AND THE QUANTITY OF FUEL OIL BURNED IN EACH HOUR.

    C. A SPECIFICATION SHEET OR FUEL OIL ANALYSIS REPORT, FOR EACH LOAD OF FUEL OIL RECEIVED, SHOWING THE WEIGHT PERCENT OF SULFUR AND THE API GRAVITY OF THE FUEL.

    D. THE RESULT FROM THE MONITORS REQUIRED BY PERMIT CONDITION NOS. 8, 9, 15, AND 24.

    ALL RECORDS SHALL BE MAINTATNED ON FILE FOR AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE UPON REQUEST TO DISTRICT PERSONNEL.
    [RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

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**Periodic Monitoring:**

26. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT ON AN ANNUAL BASIS WHENEVER THIS EQUIPMENT IS FIRED ON FUEL OIL FOR TRAINING/TESTING PURPOSE; AND AFTER EVERY 400 CUMULATIVE HOURS OF OPERATION ON DIESEL FUEL OR AFTER EVERY TWO MILLION GALLONS OF DIESEL FUEL COMBUSTED, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:

    A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR

    B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

    IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

    A. STACK OR EMISSION POINT IDENTIFICATION;

    B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;

    C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND

    D. VISIBLE EMISSION OBSERVATION RECORD BY A CERTIFIED SMOKE READER.
    [RULE 3004 (a)(4)]

27. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
    A. THE TEST SHALL BE CONDUCTED AT LEAST ONCE DURING THE LIFE OF THE PERMIT.
    B. THE TEST SHALL BE CONDUCTED TO DETERMINE THE PM EMISSIONS USING EPA METHOD 5.2 MEASURED OVER A 60 MINUTE AVERAGING TIME PERIOD.
    C. THE TEST SHALL BE CONDUCTED TO DEMONSTRATE COMPLIANCE WITH RULE [RULE 3004 (a)(4)].
    [RULE 3004 (a)(4)]

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**Emissions And Requirements:**

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

CO: 10 PPMV ON NATURAL GAS FUEL, RULE 1303(a)(1)-BACT
CO: 29 PPMV ON DIESEL FUEL, RULE 1303(a)(1)-BACT
CO: 2000 PPMV, RULE 407
NOx: 9 PPMV, RULE 1134, 1303(a)(1)-BACT
NOx: 42 PPMV, 40CFR60 SUBPART kkkk
PM: 0.1 GR/SCF, RULE 409
PM: 11 LB/HR, 0.01 GR/SCF (FOR COMPLIANCE WITH RULE 475 EMISSIONS MAY EXCEED EITHER ONE OF THESE LIMITS BUT NOT BOTH AT THE SAME TIME), RULE 475
SOx: 500 PPMV, RULE 407

SOx: 06 LB/mmbtu of SO2 in fuel, 40CFR60 SUBPART kkkk
ALDEHYDES AS FORMALDEHYDE: 2.5 PPMV, RULE 1401

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. D78741**
**A/N 287364**

**Equipment Description:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. REACTOR, HITACHI-AMERICA, NOX SELECTIVE CATALYTIC REACTOR, 11'- 2" W. X 24' - 11" L. X 9'- 10" H. WITH 621.5 CUBIC FEET OF PLATE-TYPE CATALYST.

2. REACTOR, ENGLEHARDT, CARBON MONOXIDE OXIDATIVE CATALYST, 12'- 0" W. X 22' - 8" L., FRAME HELD, WITH 70 CUBIC FEET OF HONEYCOMB TYPE CATALYST.

3. AMMONIA INJECTION SYSTEM, BABCOCK - HITACHI K.K.

4. AMMONIA STORAGE AND VAPORIZATION SYSTEM.

SERVING COGENERATION SYSTEM NO. 1.

**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 EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]

4. THE OWNER/OPERATOR SHALL CONDUCT QUARTERLY TESTS TO DETERMINE STACK OUTLET NH3 EMISSIONS. SAID DATA SHALL BE MAINTAINED ON FILE FOR AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER UPON REQUEST.
[RULE 1303(a)(1)-BACT]

5. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED ON FILE FOR AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER UPON REQUEST. .
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

6. EMISSIONS OF AMMONIA SHALL NOT EXCEED 20 PPMV, CALCULATED AT 15% O2 DRY, BASED ON A RUNNING FIFTEEN MINUTE AVERAGING TIME.
[RULE 1303(a)(1)-BACT]

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7. THE OWNER/OPERATOR SHALL MAINTAIN A BOUND NOTEBOOK-TYPE LOGBOOK WITH PRE-PRINTED NUMBERED PAGES. SUCH LOGBOOK SHALL CONTAIN THE FOLLOWING DATA FOR THE CERTIFIED CONTINUOUS EMISSION MONITORING EQUIPMENT.

   1. DATE.
   2. NAME OF PERSONNEL PERFORMING THE MAINTENANCE OR ADJUSTMENTS.
   3. SCHEDULED MAINTENANCE PROCEDURFS/REPLACEMENTS.
   4. UNSCHEDULED MAINTENANCE PROCEDURES/REPLACEMENTS.
   5. INSTRUMENT OUTAGES/READINGS.
   6. LOG ON INSTRUMENT ZERO AND SPAN READINGS (INCLUDING BEFORE AND AFTER ANY ADJUSTMENTS).
   7. ANALYZER/POLLUTANT AFFECTED.
   8. BRIEF DESCRIPTION OF WORK PERFORMED.

   ALL ENTRIES IN THIS LOGBOOK SHALL BE IN INK AND THE LOGBOOK SHALL BE KEPT IN THE PLANT CONTROL ROOM. SUCH LOGBOOK SHALL BE KEPT FOR AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO THE DISTRICT PERSONNEL UPON REQUEST.
   [RULE 1303(a)(1)-BACT]

**Periodic Monitoring:**

8. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET OF THE CATALYST. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED.
   [RULE 3004 (a)(4)]

**Emissions and Requirements:**

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

   NH3: 20 PPMV, RULE 1303(a)(1)

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. N2270**
**A/N 487830**

**Equipment Description:**

Fuel Storage and Dispensing Facility Consisting of:

1) 4 - GASOLINE NOZZLES DISPENSING 4 PRODUCTS EQUIPPED WITH HEALY ENHANCED VAPOR RECOVERY (EVR) NOZZLES, A TANK PRESSURE MONITORING DEVICE, AND NOT INCLUDING IN-STATION DIAGNOSTICS (ISD) SYSTEM.

2) 2 - GASOLINE UNDERGROUND STORAGE TANKS, EACH 15,000 GALLON CAPACITY, EQUIPPED WITH PHASE I VAPOR RECOVERY SYSTEM OPW (VR-102-E/I), 2 METHANOL COMPATIBLE.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT WAS ISSUED, UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. ALL PERMIT CONDITIONS APPLICABLE TO THE EQUIPMENT DESCRIBED IN THE PREVIOUS PERMIT TO OPERATE N15812 SHALL REMAIN IN EFFECT UNTIL THE NEW OR MODIFIED EQUIPMENT IS CONSTRUCTED AND OPERATED AS DESCRIBED IN THIS NEW PERMIT. THIS PERMIT TO CONSTRUCT/OPERATE SHALL BECOME INVALID IF THE MODIFICATION AS DESCRIBED IN THE EQUIPMENT DESCRIPTION HAS NOT BEEN COMPLETED WITHIN ONE YEAR FROM THE ISSUE DATE. IF THE MODIFICATION HAS NOT BEEN COMPLETED WITHIN ONE YEAR FROM THE ISSUE DATE OF THE PERMIT, A WRITTEN REQUEST SHALL BE SUBMITTED TO THE AQMD (ATTENTION: RANDY MATSUYAMA) TO REINSTATE THE PREVIOUSLY INACTIVATED PERMIT TO OPERATE. A NEW APPLICATION SHALL BE FILED IF THERE ARE PLANS TO CONTINUE WITH THE MODIFICATION. FURTHERMORE, THIS CONDITION DOES NOT ALLOW ANY TIME EXTENSIONS TO ANY MODIFICATIONS REQUIRED BY THE CALIFORNIA AIR RESOURCES BOARD OR AQMD.
[RULE 461]

4. EXCEPT FOR DIESEL TRANSFERS, PHASE I VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO STORAGE TANKS.
[RULE 461]

5. EXCEPT FOR DIESEL TRANSFERS, PHASE II VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO MOTOR VEHICLES, AS DEFINED IN RULE 461
RULE 461.

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6. ALL PHASE I AND PHASE II VAPOR RECOVERY EQUIPMENT AT THIS FACILITY SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEET ALL CALIFORNIA AIR RESOURCES BOARD CERTIFICATION REQUIREMENTS.
[RULE 461]

7. THE DISTRICT AT ITS DISCRETION MAY WISH TO WITNESS THE INSTALLATION AND/OR PERFORMANCE TESTING OF THE VST PHASE II EVR SYSTEM NOT INCLUDING ISD SYSTEM. AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE INSTALLATION AND PERFORMANCE TESTING OF THE VST PHASE II EVR SYSTEM NOT INCLUDING ISD SYSTEM, THE APPLICANT SHALL NOTIFY THE AQMD AT TELEPHONE NUMBER (866) 770-9140.
[RULE 461]

8. NEW EQUIPMENT INSTALLATIONS AND SUBSEQUENT SERVICE AND REPAIRS FOR ANY CERTIFIED COMPONENT FOR WHICH THIS PERMIT WAS ISSUED, SHALL ONLY BE PERFORMED BY A CURRENT AND CERTIFIED PERSON WHO HAS SUCCESSFULLY COMPLETED THE MANUFACTURER'S TRAINING COURSE AND APPROPRIATE INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION. COMPLETION OF ANY AQMD TRAINING COURSE DOES NOT CONSTITUTE AS A SUBSTITUTE FOR THIS REQUIREMENT. PROOF OF SUCCESSFUL COMPLETION OF ANY MANUFACTURER TRAINING COURSE SHALL BE WITH THE MANUFACTURER.
[RULE 461]

9. AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO BACK-FILLING ANY UNDERGROUND STORAGE TANK OR PIPING, THE SCAQMD SHALL BE NOTIFIED BY E-MAIL AT R461BACKFILL@AQMD.GOV OR BY FACSIMILE AT TELEPHONE NUMBER (909) 396-3606. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE BACK-FILLING PROCEDURE. THE BACK-FILLING PROCEDURE SHALL NOT COMMENCE UNTIL INSPECTED BY A DISTRICT REPRESENTATIVE.
[RULE 461]

10. DEPENDING ON THE SYSTEM CONFIGURATION, A LEAK RATE TEST OF THE DROP TUBE/DRAIN VALVE ASSEMBLY SHALL BE CONDUCTED TO QUANTIFY THE PRESSURE INTEGRITY OF BOTH THE DROP TUBE AND DRAIN VALVE SEAL OR A LEAK RATE TEST OF THE DROP TUBE OVERFILL PREVENTION DEVICE AND DRAIN VALVE SHALL BE CONDUCTED TO QUANTIFY THE PRESSURE INTEGRITY OF THE DROP TUBE OVERFILL PREVENTION DEVICE AND THE PRESSURE INTEGRITY OF THE SPILL CONTAINER DRAIN VALVE. EITHER TEST SHALL BE CONDUCTED AS A PERFORMANCE TEST AND AS A REVERIFICATION TEST. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH TEST PROCEDURE METHOD TP-201.1C (OCTOBER 8, 2003) OR TP-201.1D (OCTOBER 8, 2003), RESPECTIVELY. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST.
[RULE 461]

11. A LEAK RATE AND CRACKING PRESSURE TEST OF PRESSURE/VACUUM RELIEF VENT VALVES SHALL BE CONDUCTED WITHIN TEN DAYS (10) AFTER THE START OF OPERATION OF THE OPW PHASE I EVR EQUIPMENT AND AT LEAST ONCE EVERY THREE (3) YEARS THEREAFTER TO DETERMINE THE PRESSURE AND VACUUM AT WHICH THE PRESSURE/VACUUM VENT VALVE ACTUATES, AND TO DETERMINE THE VOLUMETRIC LEAK RATE AT A GIVEN PRESSURE. THE

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TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE TEST PROCEDURE METHOD TP-201.1E (OCTOBER 8, 2003). RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST. THIS TEST RESULT SHALL BE KEPT ON SITE FOR THREE (3) YEARS AND MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.
[RULE 461]

12. A STATIC TORQUE TEST OF ROTATABLE PHASE I ADAPTORS SHALL BE CONDUCTED TO QUANTIFY THE AMOUNT OF STATIC TORQUE REQUIRED TO START THE ROTATION OF THE ROTATABLE PHASE I ADAPTORS. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE TEST PROCEDURE METHOD OUTLINED IN TP-201.1B (OCTOBER 8, 2003) AS A PERFORMANCE TEST AND AS A REVERIFICATION TEST. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST.
[RULE 461]

13. A STATIC PRESSURE LEAK DECAY TEST SHALL BE CONDUCTED TO DEMONSTRATE THAT THE STORAGE TANKS, THE REMOTE AND/OR NOZZLE VAPOR RECOVERY CHECK VALVES, ASSOCIATED VAPOR RETURN PIPING AND FITTINGS ARE FREE FROM VAPOR LEAKS. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.3 (MARCH 17, 1999) AS A PERFORMANCE TEST AND AS A REVERIFICATION TEST. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST.
[RULE 461]

14. THIS FACILITY SHALL ACHIEVE COMPLIANCE WITH RULE 461(C)(2) BY APRIL 1, 2012, AS AMENDED ON MARCH 7, 2008.
[RULE 461]

15. THIS FACILITY IS REQUIRED TO INSTALL A TANK PRESSURE MONITORING AND RECORDING DEVICE NO LATER THAN APRIL 1, 2009.
[RULE 461]

16. NO FUEL SHALL BE DISPENSED INTO ANY MOTOR VEHICLE THAT IS NOT OWNED OR UNDER DIRECT CONTROL OF THE OPERATOR, EXCEPT FOR MOTOR VEHICLES USED IN EMERGENCY RESPONSE.
[RULE 461]

17. NO FUEL SHALL BE DISPENSED INTO ANY MOTOR VEHICLE THAT IS NOT EQUIPPED WITH AN ONBOARD REFUELING VAPOR RECOVERY (ORVR) SYSTEM, EXCEPT FOR MOTOR VEHICLES USED IN EMERGENCY RESPONSE.
[RULE 461]

18. THE OPERATOR SHALL MAINTAIN THE FOLLOWING RECORDS:

    A) DATE OF REFUELING EPISODE,
    B) QUANTITY OF FUEL DISPENSED, BY EACH MOTOR VEHICLE,
    C) THE MOTOR VEHICLE'S MAKE, MODEL, MODEL YEAR, AND IDENTIFICATION NUMBER OF ALL MOTOR VEHICLES REFUELED AT THE FACILITY, AND
    D) CALIBRATION RECORDS FOR THE TANK PRESSURE MONITORING SYSTEM.

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THE ABOVE MENTIONED RECORDS SHALL BE MAINTAINED AT THE FACILITY FOR AT LEAST FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER UPON REQUEST.
[RULE 461]

19. UNLESS AQMD RULE 461 REQUIRES A MORE FREQUENT TESTING OR INSPECTION SCHEDULE AND IF APPLICABLE, THE OWNER/OPERATOR SHALL BE RESPONSIBLE TO PERFORM THE SCHEDULED DAILY AND ANNUAL INSPECTIONS AS OUTLINED IN THE ARB APPROVED INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR THE VST PHASE II EVR SYSTEM, AS WELL AS ALL THE REQUIRED VAPOR RECOVERY SYSTEM TESTS AS PER THE CURRENT AND APPROPRIATE ARB EXECUTIVE ORDER.
[RULE 461]

20. ITHE AQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR BY FACSIMILE AT TELEPHONE NUMBER (909) 396-3606 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO ANY OF THE ABOVE MENTIONED TESTING REQUIREMENTS. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTOR; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE TESTS TO BE PERFORMED.
[RULE 461]

21. THE TESTING FOR THE ABOVE MENTIONED TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE MOST RECENT RULE 461 AMENDMENT OR CARB EXECUTIVE ORDER REQUIREMENTS, WHICHEVER IS MORE STRINGENT.
[RULE 461]

22. SHOULD THE FACILITY DISPENSE MORE THAN 600,000 GALLONS OF GASOLINE PER CALENDAR YEAR AND IF THE FACILITY UNDERGOES A MAJOR MODIFICATION AS DEFINED BY CARB'S ADVISORY LETTER NUMBER 336, "ENHANCED VAPOR RECOVERY IMPLEMENTATION UPDATE" DATED APRIL 15, 2005; THE OPERATOR SHALL IMMEDIATELY CEASE ALL GASOLINE DISPENSING OPERATIONS AND FILE AN APPLICATION FOR A NEW PERMIT TO CONSTRUCT/OPERATE TO INSTALL A CARB CERTIFIED ISD SYSTEM. GASOLINE DISPENSING OPERATIONS SHALL NOT RESUME UNTIL THE ISD SYSTEM HAS BEEN GRANTED A PERMIT TO CONSTRUCT/OPERATE AND HAS BEEN FULLY INSTALLED, TESTED, AND OPERATIVE.
[RULE 461]

23. SHOULD THE FACILITY DISPENSE MORE THAN 600,000 GALLONS OF GASOLINE IN ANY CALENDAR YEAR AND IF THE FACILITY DOES NOT UNDERGO A MAJOR MODIFICATION AS DEFINED BY CARB'S ADVISORY LETTER NUMBER 336, "ENHANCED VAPOR RECOVERY IMPLEMENTATION UPDATE" DATED APRIL 15, 2005; THE OPERATOR SHALL FILE AN APPLICATION FOR A NEW PERMIT TO CONSTRUCT/OPERATE TO INSTALL A CARB CERTIFIED ISD SYSTEM. THE ISD SYSTEM SHALL BE FULLY INSTALLED, TESTED, AND OPERATIVE BASED ON THE FOLLOWING TABLE:

| GASOLINE THROUGHPUT PER CALENDAR YEAR | DATE |
|---|---|
| GREATER THAN 1.8 MILLION GALLONS | SEPTEMBER 1, 2009 |
| BETWEEEN 600,000 AND 1.8 MILLION GALLONS | SEPTEMBER 1, 2010 |

[RULE 461]

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24. ALL RECORDS AND TEST RESULTS THAT ARE REQUIRED TO BE MAINTAINED BY RULE 461 SHALL BE KEPT ON SITE FOR FOUR YEARS AND MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.
[RULE 461]

25. THE MAXIMUM QUANTITY OF GASOLINE DISPENSED FROM THE STORAGE TANKS AT THIS FACILITY SHALL NOT EXCEED 41,666 GALLONS IN ANY ONE CALENDAR MONTH NOR 500,000 GALLONS IN ANY ONE CALENDAR YEAR.
[RULE 1303 (b)(2)-OFFSETS, RULE 1401]

26. RECORDS OF MONTHLY AND ANNUAL FUEL DISPENSED SHALL BE PREPARED, SHALL BE RETAINED ON SITE FOR FIVEYEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.
[RULE 1303 (b)(2)-OFFSETS, RULE 1401]

**Periodic Monitoring:**

27. THE OPERATOR SHALL HAVE A PERSON THAT HAS BEEN TRAINED IN ACCORDANCE WITH RULE 461(C)(6) CONDUCT A SEMI-ANNUAL INSPECTION OF THE GASOLINE TRANSFER AND DISPENSING EQUIPMENT. THE FIRST INSPECTION SHALL BE IN ACCORDANCE WITH RULE 461, ATTACHMENT C, THE SECOND INSPECTION SHALL BE IN ACCORDANCE WITH RULE 461, ATTACHMENT D, AND THE SUBSEQUENT INSPECTIONS SHALL ALTERNATE PROTOCOLS. THE OPERATOR SHALL KEEP RECORDS OF THE INSPECTION AND THE REPAIRS IN ACCORDANCE TO RULE 461 AND SECTION K OF THIS PERMIT.
[RULE 3004 (a)(4)]

**Emissions And Requirements:**

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

    VOC: RULE 461
    VOC: RULE 1170

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## PERMIT TO OPERATE

**Permit No. F16068**
**A/N 344951**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL NO. 6063-TK36 (410 KW), 550 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

**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. A NON-RESETTABLE TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2, RULE 1470]

4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR WHICH INCLUDES NOT MORE THAN 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING.
[RULE 1304(a), RULE 1110.2, RULE 1470]

5. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

   A. EMERGENCY USE HOURS OF OPERATION

   B. MAINTENANCE AND TESTING HOURS

   C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

   IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF THREE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1304(a), RULE 1110.2, RULE 1470]

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6. THE OPERATION OF ENGINE BEYOND THE 20 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING 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 ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY 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 1304(a)(1)-BACT, 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 1304(a)(1)-BACT, RULE 1470]

8. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 431.2, RULE 1470]

**Emissions And Requirements:**

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

   PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
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## PERMIT TO OPERATE

**Permit No. F50557**
**A/N 363119**

**Equipment Description:**

SPRAY BOOTH, BINKS, FLOOR DRY-FILTER TYPE, MODEL NO. PFA-12-7-TLH, 12'-0" W. X 7'-2" L. X 10'-2" H., WITH TWO 36" X 120" X 2" EXHAUST FILTERS AND ONE 3 H.P. EXHAUST FAN.

**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 EQUIPMENT SHALL NOT BE OPERATED IN A MANNER WHICH RESULTS IN THE DISCHARGE INTO THE ATMOSPHERE IN ANY ONE DAY, OF MORE THAN 39 POUNDS OF ORGANIC MATERIALS FROM THE USE OF PHOTOCHEMICALLY REACTIVE ORGANIC SOLVENTS.
[RULE 1303 (a)- BACT]

4. THE TOTAL AMOUNT OF VOLATILE ORGANIC COMPOUNDS (VOC) EMISSIONS FROM THIS FACILITY SHALL NOT EXCEED 62 POUNDS PER DAY (WHICH INCLUDES VOC EMISSIONS FROM ALL OTHER SPRAY BOOTHS, BOILERS, INTERNAL COMBUSTION ENGINES, AND OTHER VOC GENERATING SOURCES).
[RULE 1303 (b)(2)- Offsets]

5. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH RULES 1136 AND 1171.
[RULES 1136 & 1171]

6. IN ADDITION TO THE RECORD KEEPING REQUIREMENTS IN RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOC EMISSIONS AND VOC CONTENT OF EACH COATING AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, AND SHALL BE MADE AVAILABLE TO THE DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

7. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED AT THE FACILITY FOR FIVE (5) YEARS, AND SHALL BE MADE AVAILABLE TO THE DISTRICT PERSONNEL UPON REQUEST.
[RULE 109]

8. MATERIAL SAFETY DATA SHEETS FOR ALL COATINGS AND SOLVENTS USED AT THIS FACILITY

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SHALL BE KEPT CURRENT AND MADE AVAILABLE TO THE DISTRICT PERSONNEL UPON REQUEST.
[RULE 109]

9. COATINGS, ADHESIVES, REDUCERS, THINNERS, AND CLEAN-UP SOLVENTS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY COMPOUNDS IDENTIFIED AS CARCINOGENIC AIR CONTAMINANTS IN RULE 1401, TABLE I, WITH AN EFFECTIVE DATE OF AUGUST 18, 2000 OR EARLIER.
[RULE 1401]

**Periodic Monitoring:**

10. THE OPERATOR SHALL NOT USE THIS EQUIPMENT UNLESS ALL EXHAUST AIR PASSES THROUGH A FILTER MEDIA AT LEAST 2 INCHES THICK.
[RULE 3004 (a)(4)]

11. THE OPERATOR SHALL USE THIS EQUIPMENT IN SUCH A MANNER THAT THE DIFFERENTIAL PRESSURE ACROSS THE FILTER DOES NOT EXCEED 0.25 INCHES WATER COLUMN. TO COMPLY WITH THIS CONDITION THE OPERATOR SHALL INSTALL AND MAINTAIN A PRESSURE GAUGE TO ACCURATELY INDICATE THE DIFFERENTIAL PRESSURE ACROSS THE FILTER. THE OPERATOR SHALL DETERMINE AND RECORD THE PARAMETER BEING MONITORED ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

12. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

    A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA;
    B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
    C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.

    [RULE 3004 (a)(4)]

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**Emissions And Requirements:**

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

    VOC: RULE 109
    VOC: RULE 1136, SEE APPENDIX B FOR EMISSION LIMITS
    VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
    PM: RULE 481
    PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. F46670**
**A/N 363120**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 10637005, SERIAL NO. 6A0262031, DIESEL FUELED, SIX CYLINDERS, NATURALLY ASPIRATED, 189 BHP.

**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. A NON-RESETTABLE TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2, RULE 1470]

4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR WHICH INCLUDES NOT MORE THAN 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING.
[RULE 1304(a), RULE 1110.2, RULE 1470]

5. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

   A. EMERGENCY USE HOURS OF OPERATION

   B. MAINTENANCE AND TESTING HOURS

   C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

   IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF THREE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1304(a), RULE 1110.2, RULE 1470]

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

6. THE OPERATION OF ENGINE BEYOND THE 20 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING 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 ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY 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 1304(a)(1)-BACT, 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 1304(a)(1)-BACT, RULE 1470]

8. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 431.2, RULE 1470]

**Emissions And Requirements:**

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

   PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. F46671**
**A/N 363125**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. NT-855-G2, SERIAL NO. 30306998, DIESEL FUELED, EIGHT CYLINDERS, TURBOCHARGED, 355 BHP.

**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. A NON-RESETTABLE TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2, RULE 1470]

4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR WHICH INCLUDES NOT MORE THAN 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING.
[RULE 1304(a), RULE 1110.2, RULE 1470]

5. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

   A. EMERGENCY USE HOURS OF OPERATION

   B. MAINTENANCE AND TESTING HOURS

   C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

   IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF THREE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1304(a), RULE 1110.2, RULE 1470]

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

6. THE OPERATION OF ENGINE BEYOND THE 20 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING 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 ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY 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 1304(a)(1)-BACT, 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 1304(a)(1)-BACT, RULE 1470]

8. THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 431.2, RULE 1470]

**Emissions And Requirements:**

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

   PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. G6367**
**A/N 497573**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, MODEL QSL9-G3, DIESEL FUEL, 6 CYLINDERS, TURBOCHARGED AND AFTERCOOLED, RATED AT 399 B.H.P, DRIVING AN EMERGENCY GENERATOR.

**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 THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, RULE 1470 AND 1472.
[RULE 431.2, RULE 1470, RULE 1472]

4. A NON-RESETTABLE TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2, RULE 1470]

5. THIS ENGINE SHALL BE OPERATED TO A MAXIMUM OF 200 HOURS PER CALENDAR YEAR. THIS ENGINE SHALL BE OPERATED TO A MAXIMUM OF 2.1 HOURS PER MONTH AND 25.2 HOURS PER YEAR FOR REGULAR MAINTENANCE AND TESTING
[RULE 1304(a), RULE 1110.2, RULE 1470]

6. THE OPERATION OF ENGINE BEYOND THE 25.2 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING 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 ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY 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 1304(a)(1)-BACT, RULE 1470]

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

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 1304(a)(1)-BACT, RULE 1470]

8. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

   A. EMERGENCY USE HOURS OF OPERATION

   B. MAINTENANCE AND TESTING HOURS

   C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

   IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
   [RULE 1303(b)(2), RULE 1110.2, RULE 1470]

**Emissions And Requirements:**

9. 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
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. G6368**
**A/N 497574**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, MODEL QSB5-G3, DIESEL FUEL, 4 CYLINDERS, TURBOCHARGED AND AFTERCOOLED, RATED AT 145 B.H.P, DRIVING AN EMERGENCY GENERATOR.

**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 THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, RULE 1470 AND 1472.
[RULE 431.2, RULE 1470, RULE 1472]

4. A NON-RESETTABLE TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2, RULE 1470]

5. THIS ENGINE SHALL BE OPERATED TO A MAXIMUM OF 200 HOURS PER CALENDAR YEAR. THIS ENGINE SHALL BE OPERATED TO A MAXIMUM OF 2.5 HOURS PER MONTH AND 30 HOURS PER YEAR FOR REGULAR MAINTENANCE AND TESTING
[RULE 1304(a), RULE 1110.2, RULE 1470]

6. THE OPERATION OF ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING 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 ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY 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 1304(a)(1)-BACT, RULE 1470]

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

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 1304(a)(1)-BACT, RULE 1470]

8. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

A. EMERGENCY USE HOURS OF OPERATION

B. MAINTENANCE AND TESTING HOURS

C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2), RULE 1110.2, RULE 1470]

**Emissions And Requirements:**

9. 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
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. G6369**
**A/N 497575**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, NO. 1, CUMMINS, MODEL QSB7-G3, DIESEL FUEL, 6 CYLINDERS, TURBOCHARGED AND AFTERCOOLED, RATED AT 250 B.H.P, DRIVING AN EMERGENCY GENERATOR.

**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 THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, RULE 1470 AND 1472.
[RULE 431.2, RULE 1470, RULE 1472]

4. A NON-RESETTABLE TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2, RULE 1470]

5. THIS ENGINE SHALL BE OPERATED TO A MAXIMUM OF 200 HOURS PER CALENDAR YEAR. THIS ENGINE SHALL BE OPERATED TO A MAXIMUM OF 2.5 HOURS PER MONTH AND 30 HOURS PER YEAR FOR REGULAR MAINTENANCE AND TESTING
[RULE 1304(a), RULE 1110.2, RULE 1470]

6. THE OPERATION OF ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING 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 ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY 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 1304(a)(1)-BACT, RULE 1470]

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

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 1304(a)(1)-BACT, RULE 1470]

8. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

A. EMERGENCY USE HOURS OF OPERATION

B. MAINTENANCE AND TESTING HOURS

C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2), RULE 1110.2, RULE 1470]

**Emissions And Requirements:**

9. 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
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. G6370**
**A/N 497576**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, NO. 2, CUMMINS, MODEL QSB7-G3, DIESEL FUEL, 6 CYLINDERS, TURBOCHARGED AND AFTERCOOLED, RATED AT 250 B.H.P, DRIVING AN EMERGENCY GENERATOR.

**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 THE OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2, RULE 1470 AND 1472.
[RULE 431.2, RULE 1470, RULE 1472]

4. A NON-RESETTABLE TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2, RULE 1470]

5. THIS ENGINE SHALL BE OPERATED TO A MAXIMUM OF 200 HOURS PER CALENDAR YEAR. THIS ENGINE SHALL BE OPERATED TO A MAXIMUM OF 2.5 HOURS PER MONTH AND 30 HOURS PER YEAR FOR REGULAR MAINTENANCE AND TESTING
[RULE 1304(a), RULE 1110.2, RULE 1470]

6. THE OPERATION OF ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING 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 ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY 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 1304(a)(1)-BACT, RULE 1470]

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

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 1304(a)(1)-BACT, RULE 1470]

8. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

A. EMERGENCY USE HOURS OF OPERATION

B. MAINTENANCE AND TESTING HOURS

C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION THE LOG SHALL BE KEPT FOR A MINIMUM OF THREE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303(b)(2), RULE 1110.2, RULE 1470]

**Emissions And Requirements:**

9. 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
# LOS ANGELES COUNTY, SHERIFF DEPT.

## PERMIT TO OPERATE

**Permit No. G15794**
**A/N 516707**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, NO. 1, CUMMINS, MODEL NO. QSK50-G4, DIESEL-FUELED, SIXTEEN CYLINDERS, FOUR CYCLE, TURBOCHARGED AND AFTERCOOLED, RATED AT 2220 BHP, WITH AN DIESEL PARTICULATE FILTER, JOHNSON MATTHEY, MODEL CRT(+)12-C-BIEO-CS-24-RT AND CRTDM DIAGNOSTIC MODULE AND DATA LOGGING AND ALARM SYSTEM, MODEL CRT, 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 ALLOTED 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
# LOS ANGELES COUNTY, SHERIFF DEPT.

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 OPERATI 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)]

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 CTRdm MODULE. THE MODULE CONSIST OF OPERATIONAL DATA LOGGING OF EXHAUST TEMPERATURE, BACKPRESSURE AND ALARM SYSTEM.
[RULE 1303 (a)]

12. THE PRESSURE DROP DIFFERENTIAL ACROSS THE DIESEL PARTICULATE FILTER SHALL NOT EXCEED 20 INCHES W.C.
[RULE 1303 (a)]

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

13. THE DIESEL ENGINE SHALL OPERATE AT AN ENGINE DUTY CYCLE REQUIRED TO ACHIEVE 464 DEGREE FAHRENHEIT OR ABOVE IN THE EXHAUST GAS STREAM FOR 40% OF THE DUTY CYCLE. [RULE 1303 (a)]

14. THIS ENGINE SHALL NOT BE OPERATED IN IDLE MODE FOR MORE THAN 720 CONSECUTIVE MINUTES.
[RULE 1303 (a)]

15. THE TEMPERATURE OF THE ENGINE EXHAUST GAS AT THE INLET TO THE DIESEL PARTICULATE FILTER SYSTEM SHALL BE GREATER THAN OR EQUAL TO 464 DEGREES FAHRENHEIT EXCEPT DURING START-UP.
[RULE 1303 (a)]

16. THE OPERATOR SHALL REGENERATE THE DIESEL PARTICULATE FILTER WHENEVER WARNING SIGNAL IS RECEIVED FROM THE ALARM SYSTEM. IN ORDER TO ACHIEVE FILTER REGENERATION, THE OPERATOR SHALL RUN THE ENGINE UNTIL THE EXHAUST TEMPERATURE EXCEEDS 464 DEGREES FAHRENHEIT AND THE BACKPRESSURE MONITORING SYSTEM INDICATES A NORMAL BACKPRESSURE READING.
[RULE 1303 (a)]

17. AFTER EVERY SIX MONTHS NORMAL ENGINE OPERATION, THE OPERATOR SHALL INSPECT THE INTEGRITY OF THE FILTER AND DETERMINE IF THE FILTER NEEDS TO BE CLEANED.
[RULE 1303 (a)]

18. 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)]

19. SULFUR CONTENT OF DIESEL FUEL SUPPLIED TO THE ENGINE SHALL NOT EXCEED 15 PPM BY WEIGHT.
**[RULE 1303 (a)-BACT]**

**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

## PERMIT TO OPERATE

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

**Permit No. G15795**
**A/N 516708**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, NO. 2, CUMMINS, MODEL NO. QSK50-G4, DIESEL-FUELED, SIXTEEN CYLINDERS, FOUR CYCLE, TURBOCHARGED AND AFTERCOOLED, RATED AT 2220 BHP, WITH AN DIESEL PARTICULATE FILTER, JOHNSON MATTHEY, MODEL CRT(+)12-C-BIEO-CS-24-RT AND CRTDM DIAGNOSTIC MODULE AND DATA LOGGING AND ALARM SYSTEM, MODEL CRT, 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 ALLOTED 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
# LOS ANGELES COUNTY, SHERIFF DEPT.

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 OPERATIN 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)]

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 CTRdm MODULE. THE MODULE CONSIST OF OPERATIONAL DATA LOGGING OF EXHAUST TEMPERATURE, BACKPRESSURE AND ALARM SYSTEM.
[RULE 1303 (a)]

12. THE PRESSURE DROP DIFFERENTIAL ACROSS THE DIESEL PARTICULATE FILTER SHALL NOT EXCEED 20 INCHES W.C.
[RULE 1303 (a)]

13. THE DIESEL ENGINE SHALL OPERATE AT AN ENGINE DUTY CYCLE REQUIRED TO ACHIEVE 464 DEGREE FAHRENHEIT OR ABOVE IN THE EXHAUST GAS STREAM FOR 40% OF THE DUTY CYCLE.
[RULE 1303 (a)]

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14. THIS ENGINE SHALL NOT BE OPERATED IN IDLE MODE FOR MORE THAN 720 CONSECUTIVE MINUTES.
[RULE 1303 (a)]

15. THE TEMPERATURE OF THE ENGINE EXHAUST GAS AT THE INLET TO THE DIESEL PARTICULATE FILTER SYSTEM SHALL BE GREATER THAN OR EQUAL TO 464 DEGREES FAHRENHEIT EXCEPT DURING START-UP.
[RULE 1303 (a)]

16. THE OPERATOR SHALL REGENERATE THE DIESEL PARTICULATE FILTER WHENEVER WARNING SIGNAL IS RECEIVED FROM THE. IN ORDER TO ACHIEVE FILTER REGENERATION, THE OPERATOR SHALL RUN THE ENGINE UNTIL THE EXHAUST TEMPERATURE EXCEEDS 464 DEGREES FAHRENHEIT AND THE BACKPRESSURE MONITORING SYSTEM INDICATES A NORMAL BACKPRESSURE READING.
[RULE 1303 (a)]

17. AFTER EVERY SIX MONTHS NORMAL ENGINE OPERATION, THE OPERATOR SHALL INSPECT THE INTEGRITY OF THE FILTER AND DETERMINE IF THE FILTER NEEDS TO BE CLEANED
[RULE 1303 (a)]

18. 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)]

19. SULFUR CONTENT OF DIESEL FUEL SUPPLIED TO THE ENGINE SHALL NOT EXCEED 15 PPM BY WEIGHT.
**[RULE 1303 (a)-BACT]**

**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

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

**Permit No. G**
**A/N 520247**

**Equipment Description:**

BOILER, NO. 3, WATER TUBE, KEELER, NUMBER DS-10-13, SERIAL NO. 15396-1, NATURAL GAS ~~OR~~ WITH FUEL OIL STANDBY FUEL, WITH ONE COMBUSTION LOW NOX BURNER, AMERICAN COMBUSTION TECHNOLOGIES, MODEL AC107G-SLE, RATED AT 69,000,000 BTU PER, A 75 H.P. COMBUSTION AIR BLOWER AND FLUE GAS RECIRCULATION SYSTEM AND OXYGEN TRIM.

**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 EQUIPMENT SHALL COMPLY WITH RULE 1146.
[RULE 1146]

4. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH SOURCE TESTING REQUIREMENTS IN SUBDIVISION (d)(6)--COMPLIANCE DETERMINATION OF RULE 1146.
[RULE 1146]

5. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH PERIODIC MONITORING REQUIREMENTS OF RULE 1146 (c)(8).
[RULE 1146]

6. THIS BOILER SHALL EMIT NO MORE THAN 30 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]

7. EFFECTIVE 1/1/2014 THIS BOILER SHALL EMIT NO MORE THAN 5 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]

8. EMISSIONS OF NOX SHALL NOT EXCEED 40 PPM REFERENCED AT 3% O2 ON A DRY BASIS, AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES WHENEVER THIS EQUIPMENT IS FIRED WITH OIL.
[RULE 1146]

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9. EMISSIONS OF CO SHALL NOT EXCEED 400 PPM REFERENCED AT 3% O2 ON A DRY BASIS, AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.
[RULE 1146]

10. THE BOILER SHALL BE FIRED ON NATURAL GAS ONLY, EXCEPT DURING PERIODS OF NATURAL GAS CURTAILMENT, DURING MAINTENANCE TESTING WITH STAND-BY FUEL NOT TO EXCEED SIX HOURS PER MONTH, AND DURING COMPLIANCE TESTING.
[RULE 1146]

11. THE BURNER SHALL NOT FIRE ON LESS THAN 10939 SCF/HR OF NATURAL GAS DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.
[RULE 1146]

12. FUEL OIL SUPPLIED TO THE BURNER SHALL BE NO. 2 OR A LIGHTER GRADE AS DESCRIBED BY THE LATEST ASTM SPECIFICATIONS AND SHALL CONTAIN LESS THAN 0.05 PERCENT SULFUR BY WEIGHT IF PURCHASED PRIOR TO 6/1/04 AND LESS THAN 15 PPM SULFUR BY WEIGHT IF PURCHASED ON OR AFTER 6/1/04.
[RULE 431.2]

13. THIS BOILER SHALL BE EQUIPPED WITH A NON-RESETTABLE, TOTALIZING FLOW METER FOR EACH FUEL TO BE BURNED.
[RULE 1146]

14. THE OPERATOR SHALL INSTALL A FLOW METER TO ACCURATELY INDICATE THE FLOW RATE OF THE GAS AND SHALL RECORD THE HOURLY GAS BEING FIRED IN THE BOILER. THE MEASURING DEVICE SHALL CONTINUOUSLY MEASURE THE FLOW RATE AND SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT AND SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. CALIBRATION RECORDS AND HOURLY FLOW RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1146]

15. THE BURNER SHALL NOT FIRE ON LESS THAN 128 GAL/HR OF FUEL OIL DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.
[RULE 1146]

16. THE OPERATOR SHALL INSTALL A FLOW METER TO ACCURATELY INDICATE THE FLOW RATE OF THE FUEL OIL AND SHALL RECORD THE HOURLY FUEL OIL BEING FIRED IN THE BOILER. THE MEASURING DEVICE SHALL CONTINUOUSLY MEASURE THE FLOW RATE AND SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT AND SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. CALIBRATION RECORDS AND HOURLY FLOW RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1146]

17. THIS BOILER IS A BACK-UP BOILER FOR THE HONOR RANCHO FACILITY'S COGENERATION SYTEM (GAS TURBINE AND WASTE HEAT BOILER), AND SHALL NOT BE OPERATED WHENEVER THE COGENERATION SYSTEM IS IN OPERATION.
[RULE 1303(b)(2)-OFFSET]

18. THE OPERATOR OF THIS BOILER SHALL FOLLOW THE PORCEDURES SPECIFIED BY THE MANAUFACTURER TO TUNE-UP AND MAINTAIN THE COMBUSTION SYSTEM (INCLUDING BUT

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NOT LIMITED TO BURNERS AND AIR/FUEL CONTROL DEVICES) OF THIS BOILERTO ASSURE CONTINUED COMPLIANCE WITH THE EMISSIONS LIMITS IN CONDITION NO. 8.
[RULE 1146]

19. THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN USE WHENEVER THE BOILER IS IN OPERATION.
[RULE 1146]

20. THE OPERATOR SHALL HAVE THE BURNER EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL, AND RECIRCULATION FLUE GAS AS THE BOILER LOAD VARIES. THIS CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO MAINTAIN ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RATE.
[RULE 1146]

21. RETAIN ALL RECORDS REQUIRED BY PERMIT FOR A PERIOD OF FIVE YEARS AND MAKE ALL RECORDS AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1146]

22. 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, EIGHT AND NINE.

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 LOW 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

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G. SAMPLING FACILITIES SHALL COMPLY WITH THE AQMD "GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES", PURSUANT TO RULE 217. [RULE 1146]

**Periodic Monitoring:**

23. 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)]

24. 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)]

25. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF DIESEL FUEL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:

    A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR

    B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

    IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

    A. STACK OR EMISSION POINT IDENTIFICATION;

    B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;

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C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND

D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

26 IF ANNUAL FUEL OIL USAGE EXCEEDS 2,000,000 GALLONS IN ANY ONE YEAR, THEN THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE PARTICULATE MATTER (PM) EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 5.2 . THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 409 LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 409 LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.

THE OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

A. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED.
[RULE 3004 (a) (4)]

27. FOR UNITS WITH A HEAT INPUT GREATER THAN 10 MMBTU/HR AND ANNUAL OIL USAGE GREATER THAN 1,000,000 GALLONS OR GREATER THAN 336 HOURS OF OPERATION, BUT DO NOT EXCEED 2,000,000 GALLONS IN ANY ONE YEAR. THE OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

A. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED.
[RULE 3004 (a) (4)]

**Emissions And Requirements:**

28. IF THIS BOILER BURNS MORE THAN 200,000,000,000 (200 BILLION) BTUS OF FUEL IN ANY ONE CALENDAR YEAR, THE BOILER OPERATOR SHALL INSTALL AND OPERATE BY MARCH 1 OF THE FOLLOWING YEAR, AN OXIDES OF NITROGEN CONTINUOUS EMISSION MONITORING SYSTEM THAT IS APPROVED BY THE EXECUTIVE OFFICER IN ACCORDANCE WITH RULE 218(b) AND SHALL CONTINUE TO OPERATE IT FOR THE LIFE OF THE BOILER.
[RULE 1146, 218(b)]

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

| | |
|---|---|
| CO: | 2000 PPMV, RULE 407 |
| SOX: | 500 PPMV FUEL OIL, RULE 409 |
| PM: | 0.1 GR/SCF, RULE 409 |
| CO: | 400 PPMV, RULE 1146 |
| NOX: | 30 PPMV, RULE 1146 UNTIL DECEMBER 31, 2013 |
| NOX: | 5 PPMV, NATURAL GAS, RULE 1146 ON OR AFTER JANUARY 1, 2014 |
| NOX: | 40 PPMV FUEL OIL, RULE 1146 |

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

**Permit No. G**
**A/N 520245**

**Equipment Description:**

BOILER, NO. 4, WATER TUBE, KEELER, NUMBER DS-10-13, SERIAL NO. 15396-2, NATURAL GAS ~~OR~~ WITH FUEL OIL STANDBY FUEL, WITH ONE COMBUSTION LOW NOX BURNER, AMERICAN COMBUSTION TECHNOLOGIES, MODEL AC107G-SLE, RATED AT 69,000,000 BTU PER, A 75 H.P. COMBUSTION AIR BLOWER AND FLUE GAS RECIRCULATION SYSTEM AND OXYGEN TRIM.

**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 EQUIPMENT SHALL COMPLY WITH RULE 1146.
[RULE 1146]

4. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH SOURCE TESTING REQUIREMENTS IN SUBDIVISION (d)(6)--COMPLIANCE DETERMINATION OF RULE 1146.
[RULE 1146]

5. THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH PERIODIC MONITORING REQUIREMENTS OF RULE 1146 (c)(8).
[RULE 1146]

6. THIS BOILER SHALL EMIT NO MORE THAN 30 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]

7. EFFECTIVE 1/1/2014 THIS BOILER SHALL EMIT NO MORE THAN 5 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]

8. EMISSIONS OF NOX SHALL NOT EXCEED 40 PPM REFERENCED AT 3% O2 ON A DRY BASIS, AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES WHENEVER THIS EQUIPMENT IS FIRED WITH OIL.
[RULE 1146]

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9. EMISSIONS OF CO SHALL NOT EXCEED 400 PPM REFERENCED AT 3% O2 ON A DRY BASIS, AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.
[RULE 1146]

10. THE BOILER SHALL BE FIRED ON NATURAL GAS ONLY, EXCEPT DURING PERIODS OF NATURAL GAS CURTAILMENT, DURING MAINTENANCE TESTING WITH STAND-BY FUEL NOT TO EXCEED SIX HOURS PER MONTH, AND DURING COMPLIANCE TESTING.
[RULE 1146]

11. THE BURNER SHALL NOT FIRE ON LESS THAN 10939 SCF/HR OF NATURAL GAS DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.
[RULE 1146]

12. FUEL OIL SUPPLIED TO THE BURNER SHALL BE NO. 2 OR A LIGHTER GRADE AS DESCRIBED BY THE LATEST ASTM SPECIFICATIONS AND SHALL CONTAIN LESS THAN 0.05 PERCENT SULFUR BY WEIGHT IF PURCHASED PRIOR TO 6/1/04 AND LESS THAN 15 PPM SULFUR BY WEIGHT IF PURCHASED ON OR AFTER 6/1/04.
[RULE 431.2]

13. THIS BOILER SHALL BE EQUIPPED WITH A NON-RESETTABLE, TOTALIZING FLOW METER FOR EACH FUEL TO BE BURNED.
[RULE 1146]

14. THE OPERATOR SHALL INSTALL A FLOW METER TO ACCURATELY INDICATE THE FLOW RATE OF THE GAS AND SHALL RECORD THE HOURLY GAS BEING FIRED IN THE BOILER. THE MEASURING DEVICE SHALL CONTINUOUSLY MEASURE THE FLOW RATE AND SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT AND SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. CALIBRATION RECORDS AND HOURLY FLOW RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1146]

15. THE BURNER SHALL NOT FIRE ON LESS THAN 128 GAL/HR OF FUEL OIL DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.
[RULE 1146]

16. THE OPERATOR SHALL INSTALL A FLOW METER TO ACCURATELY INDICATE THE FLOW RATE OF THE FUEL OIL AND SHALL RECORD THE HOURLY FUEL OIL BEING FIRED IN THE BOILER. THE MEASURING DEVICE SHALL CONTINUOUSLY MEASURE THE FLOW RATE AND SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT AND SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. CALIBRATION RECORDS AND HOURLY FLOW RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1146]

17. THIS BOILER IS A BACK-UP BOILER FOR THE HONOR RANCHO FACILITY'S COGENERATION SYTEM (GAS TURBINE AND WASTE HEAT BOILER), AND SHALL NOT BE OPERATED WHENEVER THE COGENERATION SYSTEM IS IN OPERATION.
[RULE 1303(b)(2)-OFFSET]

18. THE OPERATOR OF THIS BOILER SHALL FOLLOW THE PORCEDURES SPECIFIED BY THE MANAUFACTURER TO TUNE-UP AND MAINTAIN THE COMBUSTION SYSTEM (INCLUDING BUT

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NOT LIMITED TO BURNERS AND AIR/FUEL CONTROL DEVICES) OF THIS BOILERTO ASSURE CONTINUED COMPLIANCE WITH THE EMISSIONS LIMITS IN CONDITION NO. 8.
[RULE 1146]

19. THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN USE WHENEVER THE BOILER IS IN OPERATION.
[RULE 1146]

20. THE OPERATOR SHALL HAVE THE BURNER EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL, AND RECIRCULATION FLUE GAS AS THE BOILER LOAD VARIES. THIS CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO MAINTAIN ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RATE.
[RULE 1146]

21. RETAIN ALL RECORDS REQUIRED BY PERMIT FOR A PERIOD OF FIVE YEARS AND MAKE ALL RECORDS AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1146]

22. 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, EIGHT AND NINE.

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 LOW 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

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G. SAMPLING FACILITIES SHALL COMPLY WITH THE AQMD "GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES", PURSUANT TO RULE 217. [RULE 1146]

**Periodic Monitoring:**

23. 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)]

24. 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)]

25. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF DIESEL FUEL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:

    A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR

    B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

    IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

    A. STACK OR EMISSION POINT IDENTIFICATION;

    B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;

# FACILITY PERMIT TO OPERATE
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C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND

D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

26 IF ANNUAL FUEL OIL USAGE EXCEEDS 2,000,000 GALLONS IN ANY ONE YEAR, THEN THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE PARTICULATE MATTER (PM) EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 5.2 . THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 409 LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 409 LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.

THE OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

B. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED.
[RULE 3004 (a) (4)]

27. FOR UNITS WITH A HEAT INPUT GREATER THAN 10 MMBTU/HR AND ANNUAL OIL USAGE GREATER THAN 1,000,000 GALLONS OR GREATER THAN 336 HOURS OF OPERATION, BUT DO NOT EXCEED 2,000,000 GALLONS IN ANY ONE YEAR. THE OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

A. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED.
[RULE 3004 (a) (4)]

**Emissions And Requirements:**

28. IF THIS BOILER BURNS MORE THAN 200,000,000,000 (200 BILLION) BTUS OF FUEL IN ANY ONE CALENDAR YEAR, THE BOILER OPERATOR SHALL INSTALL AND OPERATE BY MARCH 1 OF THE FOLLOWING YEAR, AN OXIDES OF NITROGEN CONTINUOUS EMISSION MONITORING SYSTEM THAT IS APPROVED BY THE EXECUTIVE OFFICER IN ACCORDANCE WITH RULE 218(b) AND SHALL CONTINUE TO OPERATE IT FOR THE LIFE OF THE BOILER.
[RULE 1146, 218(b)]

# FACILITY PERMIT TO OPERATE
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29. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

| | |
|---|---|
| CO: | 2000 PPMV, RULE 407 |
| SOX: | 500 PPMV FUEL OIL, RULE 409 |
| PM: | 0.1 GR/SCF, RULE 409 |
| CO: | 400 PPMV, RULE 1146 |
| NOX: | 30 PPMV, RULE 1146 UNTIL DECEMBER 31, 2013 |
| NOX: | 5 PPMV, NATURAL GAS, RULE 1146 ON OR AFTER JANUARY 1, 2014 |
| NOX: | 40 PPMV FUEL OIL, RULE 1146 |

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## 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 CONATINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISITING 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 CONATINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSITING 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

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## RULE 219 EQUIPMENT

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS

**Emissions And Requirements:**

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

| | |
|---|---|
| REFRIGERANT: | RULE 1415 |
| REFRIGERANT: | 40CFR 82 SUBART F |

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## RULE 219 EQUIPMENT

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, COOLING TOWERS

**Emissions And Requirements:**

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

   $CR^{+6}$: RULE 1404

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## RULE 219 EQUIPMENT

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, FIRE EXTINGUISHING EQUIPMENT

**Emissions And Requirements:**

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

   HALON: RULE 1418

# FACILITY PERMIT TO OPERATE
# LOS ANGELES COUNTY, SHERIFF DEPT.

## RULE 219 EQUIPMENT

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATION.

**Emissions And Requirements:**

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

   VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

# MODIFICATION TO PERMIT CONSTRUCT

| | |
|---|---|
| APPLICANT | LOS ANGELES COUNTY SHERIFF DEPT. |
| MAILING ADDRESS` | 1000 SOUTH FREMONT AVE.<br>ALAMBRA, CA |
| EQUIPMENT LOCATION | 29300 THE OLD ROAD<br>SAUGUS, CA |

## EQUIPMENT DESCRIPTION:

Proposed new permit description language is shown in **bold underline**, items removed is shown in ~~strikeout~~

### APPLICATION NO. 520247

MODIFICATION OF:
BOILER, **NO. 3**, WATER TUBE, KEELER, ~~SERIAL NO.~~ MODEL NUMBER DS-10-13, SERIAL NO. 15396-1, NATURAL GAS ~~OR~~ **WITH** FUEL OIL ~~BURNER~~ **STANDBY FUEL**, **WITH ONE** ~~COEN~~ COMBUSTION LOW NOX BURNER, **AMERICAN COMBUSTION TECHNOLOGIES**, MODEL ~~200-11632-1~~ **AC107G-SLE**, RATED AT 69,000,000 BTU PER, A **75** ~~10~~ H.P. COMBUSTION AIR BLOWER AND **FLUE GAS RECIRCULATION SYSTEM AND OXYGEN TRIM.**

### APPLICATION NO. 520248

MODIFICATION OF:
BOILER, **NO. 4**, WATER TUBE, KEELER, ~~SERIAL NO.~~ MODEL NUMBER DS-10-13, SERIAL NO. 15396-2, NATURAL GAS ~~OR~~ **WITH** FUEL OIL ~~BURNER~~ **STANDBY FUEL**, **WITH ONE** ~~COEN~~ COMBUSTION LOW NOX BURNER, **AMERICAN COMBUSTION TECHNOLOGIES**, MODEL ~~200-11632-1~~ **AC107G-SLE**, RATED AT 69,000,000 BTU PER, A **75** ~~10~~ H.P. COMBUSTION AIR BLOWER AND **FLUE GAS RECIRCULATION SYSTEM AND OXYGEN TRIM.**

### APPLICATION NO. 526414

TITLE V REVISION

## PERMIT CONDITIONS

Proposed new condition language is shown in **bold underline**, conditions removed is shown in ~~strikeout~~

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.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. ~~THIS BOILER SHALL BE OPERATED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF RULE 1146.~~
~~[RULE 1146]~~

4. ~~THIS EQUIPMENT SHALL COMPLY WITH THE NOX EMISSIONS LIMITS of 9 PPMV BY 1/1/2012.~~
~~[RULE 1146]~~

~~8. THIS BOILER SHALL EMIT NO MORE THAN 30 PPM OF OXIDES OF NITROGEN (NOX) CALCULATED AS NO2, AND 400 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN.~~
~~[RULE 1146]~~

~~12. RECORDS SHALL BE KEPT BY THE OPERATOR TO DEMONSTATE COMPLIANCE WITH CONDITION NO. 8. THE RECORDS SHALL BE KEPT FOR FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.~~
~~[RULE 1146]~~

3. **THIS EQUIPMENT SHALL COMPLY WITH RULE 1146.**
**[RULE 1146]**

4. **THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH SOURCE TESTING REQUIREMENTS IN SUBDIVISION (d)(6)--COMPLIANCE DETERMINATION OF RULE 1146.**
**[RULE 1146]**

5. **THE OPERATOR OF THIS EQUIPMENT SHALL COMPLY WITH PERIODIC MONITORING REQUIREMENTS OF RULE 1146 (c)(8).**
**[RULE 1146]**

6. **THIS BOILER SHALL EMIT NO MORE THAN 30 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]**

7. **EFFECTIVE 1/1/2014 THIS BOILER SHALL EMIT NO MORE THAN 5 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]**

8. **EMISSIONS OF NOX SHALL NOT EXCEED 40 PPM REFERENCED AT 3% O2 ON A DRY BASIS, AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES WHENEVER THIS EQUIPMENT IS FIRED WITH OIL.**
**[RULE 1146]**

9. **EMISSIONS OF CO SHALL NOT EXCEED 400 PPM REFERENCED AT 3% O2 ON A DRY BASIS, AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.**
**[RULE 1146]**

10. **THE BOILER SHALL BE FIRED ON NATURAL GAS ONLY, EXCEPT DURING PERIODS OF NATURAL GAS CURTAILMENT, DURING MAINTENANCE TESTING WITH STAND-BY FUEL NOT TO EXCEED SIX HOURS PER MONTH, AND DURING COMPLIANCE TESTING.**
**[RULE 1146]**

11. **THE BURNER SHALL NOT FIRE ON LESS THAN 10939 SCF/HR OF NATURAL GAS DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.**
**[RULE 1146]**

12. **FUEL OIL SUPPLIED TO THE BURNER SHALL BE NO. 2 OR A LIGHTER GRADE AS DESCRIBED BY THE LATEST ASTM SPECIFICATIONS AND SHALL CONTAIN LESS THAN 0.05 PERCENT SULFUR BY WEIGHT IF PURCHASED PRIOR TO 6/1/04 AND LESS THAN 15 PPM SULFUR BY WEIGHT IF PURCHASED ON OR AFTER 6/1/04.**
**[RULE 431.2]**

13. **THIS BOILER SHALL BE EQUIPPED WITH A NON-RESETTABLE, TOTALIZING FLOW METER FOR EACH FUEL TO BE BURNED.**
**[RULE 1146]**

14) **THE OPERATOR SHALL INSTALL A FLOW METER TO ACCURATELY INDICATE THE FLOW RATE OF THE GAS AND SHALL RECORD THE HOURLY GAS BEING FIRED IN THE BOILER. THE MEASURING DEVICE SHALL CONTINUOUSLY MEASURE THE FLOW RATE AND SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT AND SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. CALIBRATION RECORDS AND HOURLY FLOW RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.**
**[RULE 1146]**

15) **THE BURNER SHALL NOT FIRE ON LESS THAN 128 GAL/HR OF FUEL OIL DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.**
**[RULE 1146]**

16) **THE OPERATOR SHALL INSTALL A FLOW METER TO ACCURATELY INDICATE THE FLOW RATE OF THE FUEL OIL AND SHALL RECORD THE HOURLY FUEL OIL BEING FIRED IN THE BOILER. THE MEASURING DEVICE SHALL CONTINUOUSLY MEASURE THE FLOW RATE AND SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT AND SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. CALIBRATION RECORDS AND HOURLY FLOW RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.**
**[RULE 1146]**

17. THIS BOILER IS A BACK-UP BOILER FOR THE HONOR RANCHO FACILITY'S COGENERATION SYTEM (GAS TURBINE AND WASTE HEAT BOILER), AND SHALL NOT BE OPERATED WHENEVER THE COGENERATION SYSTEM IS IN OPERATION.
[RULE 1303(b)(2)-OFFSET]

18. THE OPERATOR OF THIS BOILER SHALL FOLLOW THE PORCEDURES SPECIFIED BY THE MANAUFACTURER TO TUNE-UP AND MAINTAIN THE COMBUSTION SYSTEM (INCLUDING BUT NOT LIMITED TO BURNERS AND AIR/FUEL CONTROL DEVICES) OF THIS BOILERTO ASSURE CONTINUED COMPLIANCE WITH THE EMISSIONS LIMITS IN CONDITION NO. 8. [RULE 1146]

19. **THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN USE WHENEVER THE BOILER IS IN OPERATION.**
**[RULE 1146]**

20. **THE OPERATOR SHALL HAVE THE BURNER EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL, AND RECIRCULATION FLUE GAS AS THE BOILER LOAD VARIES. THIS CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO MAINTAIN ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RATE.**
**[RULE 1146]**

21. **RETAIN ALL RECORDS REQUIRED BY PERMIT FOR A PERIOD OF FIVE YEARS AND MAKE ALL RECORDS AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.**
**[RULE 1146]**

22. **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, EIGHT AND NINE.**

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 LOW 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:**

23. 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)]

24. 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)]

25. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF DIESEL FUEL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:
    A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR
    B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

I. STACK OR EMISSION POINT IDENTIFICATION;

II. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;

III. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND

IV. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER. [RULE 3004 (a)(4)]

26 **IF ANNUAL FUEL OIL USAGE EXCEEDS 2,000,000 GALLONS IN ANY ONE YEAR, THEN THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE PARTICULATE MATTER (PM) EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 5.2 . THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 409 LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.**

**FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 409 LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.**

**THE OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE.**

**THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:**

**A. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED. [RULE 3004 (a) (4)]**

27. **FOR UNITS WITH A HEAT INPUT GREATER THAN 10 MMBTU/HR AND ANNUAL OIL USAGE GREATER THAN 1,000,000 GALLONS OR GREATER THAN 336 HOURS OF OPERATION, BUT DO NOT EXCEED 2,000,000 GALLONS IN ANY ONE YEAR. THE OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE**

**THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:**

**A. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED. [RULE 3004 (a) (4)]**

**Emissions And Requirements:**

28. IF THIS BOILER BURNS MORE THAN 200,000,000,000 (200 BILLION) BTUS OF FUEL IN ANY ONE CALENDAR YEAR, THE BOILER OPERATOR SHALL INSTALL AND OPERATE BY MARCH 1 OF THE FOLLOWING YEAR, OR JULY 1, 1993, WHICHEVER IS LATER, AN OXIDES OF NITROGEN CONTINUOUS EMISSION MONITORING SYSTEM THAT IS APPROVED BY THE EXECUTIVE OFFICER IN ACCORDANCE WITH RULE 218(b) AND SHALL CONTINUE TO OPERATE IT FOR THE LIFE OF THE BOILER.
[RULE 1146, 218(b)]

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

CO: 2000 PPMV, RULE 407
SOX: 500 PPMV **FUEL OIL**, RULE 409
PM: 0.1 GR/SCF, RULE 409
CO: 400 PPMV, RULE 1146
NOX: 30 PPMV, RULE 1146 **UNTIL DECEMBER 31, 2013**
NOX: 5 PPMV, **NATURAL GAS**, RULE 1146 ON OR AFTER JANUARY 1, 2014
NOX: 40 PPMV **FUEL OIL**, RULE 1146 ~~(FUEL OIL)~~

## BACKGROUND:

The above applications were filed on modification (the Title V application no. 527219 was assigned on 9/20/2011). The applicant operates two existing boilers, eacth rated at 68.9 million btu per hour. The applicant did not file the modifications applications by 1/1/2011 and thus is subject to Rule 1146 (c)(2)(A) NOx emissions limits of 5 ppmv. The applicant proposes to comply with the emissions limits by replacing the existing burners and installing new burners provided by American Combustion Technologies that will comply with the 1/1/2014 compliance date.

In the Facility Permit ID#800386, additions are requested to section D by the modification of three existing boilers. Attached is a draft of Section D in the Facility Permit affected by this addition.

Per 3000 (b)(15)(A)(vi) as referenced by 3005 (c)(1) this Title V modification is considered as a "minor permit revision" to the Title V permit because there is no increase of pollutant emissions or HAP emissions. There is a net decrease in NOx emission, thus not subject to Rule 3000 (b)(11).

The applicant proposes to replace the current burner When firing on oil there will be no change in the NOx emissions limit of 40 ppmv. The burner manufacturer American Combustion Techologies has provided emissions guarantees of no more than 5 ppmv of NOx emissions corrected to 3% O2 while firing on natural gas. There will be no change in the current CO emissions limit of 400 ppmv.

The boilers were modified to comply with Rule 1146 in the 1990's. They are currently operating under the permits issued at that time. The following table summarizes the current application and permit numbers.

| Equipment | Current A/N | Current P/O |
|---|---|---|
| Boiler | 349167 | F42177 |
| Boiler | 349169 | F42176 |

In addition to modifying the boilers the applicant has cancelled the following permits and removed the equipment from service

| Application | Permit to Operate number | Equipment description |
|---|---|---|
| 189409 | D14716 | ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL |
| 385191 | F39233 | ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL |
| 385192 | F39234 | ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL |
| 385193 | F39235 | ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL |
| 302022 | D90104 | OVEN, BAKERY TYPE |
| 321743 | F7779 | WASHER, DIESEL |
| 363121 | F46677 | ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL |
| 363122 | F46678 | ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL |
| 363123 | F48619 | ICE (50-500 BHP), NON EM PUMP, NATURAL GAS |
| 363126 | F46675 | ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL |
| 363154 | F38618 | ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL |

## 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: 11/16/2009-11/16/2011

**Permitting since the Title V permit was renewed since 12/24/2009, ref a/n 477115**

| | | 30 day ave-lb/dy | | | | |
|---|---|---|---|---|---|---|
| Item | A/n | NOx | ROG | CO | SOx | PM10 |
| title v revision | 502371 | +0.34 | +0 | +0 | +0 | +0 |
| Title v revision | 528614 | -100.36 | 0 | 0 | 0 | 0 |
| Change in emissions | 0 | -100.02 | 0 | 0 | +0 | 0 |

## PROCESS DISCRIPTION

The boilers are used to provide back-up to a Cogeneration unit (P/O F97277). The cogeneration unit provides electrical power and the waste heat supplies, steam, hot water to the facility. The boilers only operate when the cogen is off line (see permit condition no. 17). For this evaluation assume all the boilers operate 24 hr/dy, 7 dy/wk, 52 wk/yr.

This is a new burner by American Combustion Technologies. The new ACT 5 ppmv NOx is similar to the ACT 9 ppmv NOx burner (running at 6 ppmv though all firing ranges- installed at Olive View). The ACT 5 ppm NOx burner was installed at Rancho Los Amigos and testing of the burner will be done in later this year (A/N 525440, 41 and 42). The applicant is requiring the burner vender to meet a 5 ppmv NOx limit (see email dated 11/16/2011), but the AQMD permit limit will be 9 ppmv NOx.

Burner Specifications:

Burner must meet below 5 PPM NOx emission corrected to 3.0 % excess oxygen. Burner must be able to operate at no higher than 4.50 % oxygen throughout the firing rates while meeting this emission level.

Burner must be of diffuser type and should consist of two separate firing heads. Each firing head must be supported by an independent air fan wheel. Each burner head should be able to be adjusted independently, with gas flow, air flow and flue gas flow.

Burner controls must have at 6 independent flow control valves, 2 for combustion air, 2 for gas flows, and 2 for flue gas re-circulation.

Burner /boiler must be able to meet 80% efficiency level using ASME input/output method only. Heat loss method is not acceptable.

Burner Description:

This burner achieves between 3 and 5 ppm NOx due to a couple of improved technologies. The first is improvement on the ACT separate firing head design. With two firing heads separately controlling primary and secondary fuel, air, and FGR, is able to precisely control the combustion process.

The second improved technology relates to how the air and fuel are mixed. The better the mix, the quicker the combustion completes and the lower the flame temperature and lower the NOx formation. Our standard SLE burner which is guaranteed at 9ppm NOx could be pushed to 4-6 PPM NOx. With the mixing improvements made at the burner heads, the burner can meet approximately 3 ppm NOx and safely guarantee 5 ppm NOx.

This NOx reduction is accomplished without inefficiently adding a bunch of excess oxygen to the flame as is done with low technology and low efficiency metal fiber burners.

Burner Turndown:

6:1 firing with natural gas
4:1 firing with fuel oil

Emissions Guarantee:

American Combustion Technologies Inc. guarantees emissions on the ACI-XXX-SLE series burners from 200,000 to 200,000,000 BTU/hr to at or below NOx requirements of 5 PPM, corrected to 3% Oxygen.

Source Testing:

The vendor is in the process of installing one of these 5 ppm burners at Rancho Los Amigos Rehabilitation Center and a source test is scheduled for the middle of December.

| Specification | |
|---|---|
| Boiler Manufacturer | Keeler |
| Model | DS-10-13 |
| Fuel Type | Natural gas primary, with fuel oil standby |
| Maximum Fuel Consumption | 65,619 ft3/hr natural gas |
| Maximum Exhaust Flow SCFM | 20,808 ft3/min natural gas |
| Maximum Heat Input | 69 mmbtu/hr |
| NOx Combustion Control | FGR, Low NOx Burner |
| Post combustion control NOx limit natural gas | 5 ppmv |
| Post combustion control NOx limit fuel oil | 40 ppmv |
| Turn down ratio natural gas | 6 to 1 |
| Turn down ratio fuel oil | 4 to 1 |
| Post Combustion Control | none |

## CALCULATIONS

1. Permit processing Emissions calculation methodology

   A. Emissions calculations ROG, SOx and PM

$$R1(LB/HR) = \frac{EF \times GAS\ USAGE}{1 \times 10^6}$$

*Note R1 = R2*

*Where E.F per AP-42, table 1.4-1*

*Note, NOx and CO ref the same table for default values*

B. Emissions calculations NOx and CO, by EPA method 19

Using the ideal gas law (lbmole/dscf@68 F)

$$PV = nRT$$

$$n/V = P/RT$$

Given

Pressure = 1 atm
Temp = 68 F
Ideal gas constant R = 0.73 ft3-atm/lb-mole-R
R = 460 F + 68 F

$$\begin{aligned} lb\ NOx/btu &= dscf/mmbtu \times 1^{-06} mmbtu/btu \times \\ &= (20.9/(20.9 - 3\%O2)) \times ppm \times \\ &= (VolNOxppm) \times (MW) \times lbmol/dscf \end{aligned}$$

*Given*

*Dscf/mmbtu = 8710*
*Mw = 46 NOx*
*Mw = 28 CO*
*Lbmole/dscf = 0.00259*

*Ppm = 9 NOx*
*Pppm = 400 CO*
*Vol NOx/pmm = 0.000001*

*Repeat formula for CO*

2. EMISSIONS CALCULATIONS

Emissions per boiler

| | lb/hr | lb/day | 30-dy ave | lb/yr |
|---|---|---|---|---|
| RHC | 0.3609 | 8.66 | 8.66 | 3153 |
| NOx | 0.42 | 10.03 | 10.03 | 3650.92 |
| SO2 | 0.0394 | 0.9449 | 0.94 | 343.936 |
| CO | 5.09 | 122.16 | 122.16 | 44467.68 |
| PM=PM10=PM2.5 | 0.499 | 11.97 | 11.97 | 4359 |

The boilers were previously modified (a/n 256696 and 256697) to comply with Rule 1146 NOx limit of 30 ppmv limits. Revise the PM10 emissions base on revised current EF.

Previous emissions per boiler

| | lb/hr | lb/day | 30-dy ave | lb/yr |
|---|---|---|---|---|
| RHC | 0.3609 | 8.66 | 8.66 | 3153 |
| NOx | 2.51 | 60.21 | 60.21 | 21916.44 |
| SO2 | 0.0394 | 0.9449 | 0.94 | 343.936 |
| CO | 5.09 | 122.16 | 122.16 | 44467.68 |
| PM=PM10=PM2.5 | 0.499 | 11.97 | 11.97 | 4359 |

**RULES EVALUATION:**

Rule 212 The equipment is being modified to comply with Rule 1146 NOx emissions limits, there will be a net reduction in NOx emissions, thus Rule does not apply.

| Item | Equipment located beyond 1000 feet of a school | Public notice required |
|---|---|---|
| Boilers | n/a | no |

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

| Pollutant | MICR | Threshold | Public Notice |
|---|---|---|---|

| | | | required |
|---|---|---|---|
| Boiler | n/a | 1.0e-06 | No |

Section (c)(2)

| Pollutant | Net increase in emissions lb/dy | Allowed limit-lb/dy | Trigger Public Notice |
|---|---|---|---|
| NOx | -100.36 | 40 | No |
| ROG | +0 | 30 | No |
| CO | +0 | 220 | No |
| PM10 | +0 | 30 | No |
| SOx | +0 | 60 | NO |

Rule 401 – Visible Emissions
Visible emissions are not expected under normal operation firing gaseous fuel. However, fuel oil combustion has the potential to result in visible emissions. Fuel oil is only fired in the unit during a natural gas curtailment, or during maintenance testing.

Rule 402 – Nuisance
The equipment primary uses natural gas, expected not to cause a odor.

Rule 404 Exempt per section (c).

Rule 407 – Liquid and Gaseous Air Contaminants
This rule limits the CO emissions to 2000 ppm, and also limits the SO2 emissions to 500 ppm when firing fuel oil. The Rule 1146 CO limit of 400 ppm is more stringent. One of the boilers was tested in early 2000's and showed CO emissions below 250 ppm. The units have not been tested for SO2 emissions, however, since 15 ppm sulfur fuel oil is required by Rule 431.2, the equipment should theoretically be able to comply with the 500 ppm SO2 limit.

Rule 409 – Combustion Contaminants
Expected to comply while firing on natural gas or fuel oil.

Rule 431.1. - Sulfur Content of Gaseous Fuels
This rule limits the sulfur content of natural gas sold in the district to 16 ppm sulfur.

Rule 431.2 – Sulfur Content of Liquid Fuels

Any fuel oil combusted in the boilers must comply with the rule limit of 15 ppm sulfur. The boilers are required to use a low sulfur oil in the units which complies with the sulfur limits of this rule.

Rule 1146 This Rule was amended last September 2008 and is subject to the following emissions limits. The boiler is expected to comply with the future NOx limits (verify by source test).

Table 1146-1 per section (c)(1)(A) requires 30 ppmv limit for NOx when burning gaseous fuel. Section (c)(1)(4) requires 400 ppmv limit for CO.

The Rule also requires submittal of a compliance plan specifying when the facility will come into compliance with the limits. The applicant submitted their plan under A/N 505146, the plan was submitted within the required timeframe and was approved by AQMD on December 2010. The plan specified a 9 ppm NOx compliance level to be achieved by January 1, 2012. The facility filed the applications after the 1/1/2011 deadline, thus the boilers are subject to the requirements of section (c)(2)(A)

The boilers are listed as a Group II type unit and will be subject to the following emissions limits

The boilers are subject to Table 1146-1 (c)(2) requires 5 ppmv limit for NOx when burning gaseous fuel effective on 1/1/2014. The applicant proposes to install LOx burners, thus compliance with this section is met.

Per section (c)(4) the CO concentration limit is 400 ppmv (no change)

Per section (c)(6) the boiler is btu rating is greater than 40 mmbtu/hr and permit condition if the fuel usage exceed threshold and Rule 219 NOx CEMs has to be installed

Per section (d)(6)(A) source testing is required once every three years for this size boiler

Per section (d)(8) the applicant shall check the NOx and CO emissions from the boiler using a portable analyzer effective 7/1/2009.

Reg. XIII Compliance with the following sections is anticipated.

1303 (a)-BACT- There is no increase in BTU rating or emissions, BACT does not apply.

1303 (b)(1)- Does not apply no increase in emissions

1303 (b)(2)- Offsets, see table

| | | 30 day ave-lb/dy | | | | |
|---|---|---|---|---|---|---|
| Item | A/n | NOx | ROG | CO | SOx | PM10 |
| Boiler | 520247 | +10.03 | +8.66 | +122.16 | +0.94 | +11.97 |
| Boiler | 520248 | +10.03 | +8.66 | +122.16 | +0.94 | +11.97 |
| Boiler | 349167 | -60.21 | -8.66 | -122.16 | -0.94 | -11.97 |
| Boiler | 349169 | -60.21 | -8.66 | -122.16 | -0.94 | -11.97 |
| Change in emissions | | -100.36 | +0 | +0 | +0 | +0 |

RULE 1401- Exempt per section (g)(1)(F), no increase in Rule 1401 emissions. There is no increase in btu rating or emissions.

## Regulation XXX

This facility (id# 800386) is included in Phase One of the Title V universe. Therefore the proposed equipment is expected to comply with the following sections:

Rule 3005 (c)(1): The Title V expected permit revision caused by this equipment addition satisfies all the applicable conditions listed in this rule, it constitutes Minor Permit revision (no net emissions increase less than required by Rule 3000 (b)(15)(A)(vi)), see facility emissions summary table in Rule 1303.

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

Section (i)(4) A permit revision may be issued after the permit revision applications meets all conditions in this rule.

Section (j)(1)(A) The EPA Administrator will timely receive the Minor revision upon completion of District evaluation.

Section (j)(1)(C) The EPA Administrator will timely receive the draft of the Minor revision upon completion of District evaluation.

Section (j)(1)(D) The EPA Administrator will timely receive the final Title V permit upon issuance by the District

Section (j)(4)(A) The applicant will be timely notified of any refusal to accept all recommendations for the draft permit

Rule 3006 (a) Exempt per section (b).

California Environmental Quality Act (CEQA)

The boiler modification to reduce the NOx emissions does not trigger CEQA.

FINAL AIR TOXICS STANDARDS FOR INDUSTRAIL, COMMERICAL, AND INSTITUTIONAL BOILERS AT AREA SOURCE FACILITES (40 CFR Part 63)

The final ruling was released on 3/21/2011 and applies to boilers using non-gaseous fuels. For this project the boilers are using natural gas with fuel oil only used as a stand-by fuel. The rule is silent for a boiler firing on natural gas with stand-by oil. The boilers are existing, per Table 2 to Subpart JJJJJJ of Part 63, item 3 for oil fired, there are no emissions requirement, but the operator is required to perform tune-ups and a onetime energy assessment on the boilers.

40 CFR PART 60, Subpart Dc-Standards of Performance for Small Industrial-Commercial-Institutional steam generating Units

Section 60.42(c)(d) requires fuel oil to be less than 0.5 ppmw Sulfur content. Rule 431.2 requires fuel oil purchased to be less than 15 ppmw Sulfur content.

## RECOMMENDATIONS

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 modification of two boilers 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.

After the end of the 45 day EPA review period, issue a Permit to Construct subject to the conditions listed below.

Previous permit conditions

- Keep condition no. 3
- Revise condition no. 5 to condition no. 7
- Add condition no. 3 to comply with Rule 1146
- Keep condition no. 4
- Keep condition no. 5
- Keep condition no. 7, re-number to condition no. 10
- Keep condition no. 8, re-number to condition no 6 and 9.
- Keep condition no. 9 and 10, re-number to condition no. 17 and 18.
- Keep condition no. 12, revise to condition no. 21
- Keep existing Periodic monitoring conditions

Additional permit conditions

- Add condition no. 8- Limit NOx ppmv while using fuel oil
- Add condition no. 11- limit the min. natural gas fuel rate, except during start-up and shutdown.

- Add condition no. 12, fuel oil to comply with the 15 ppmv Sulfur limit of Rule 431.2
- Add condition no. 13, install fuel meters for each type of fuel used.
- Add condition no. 14, install natural gas fuel meter and recorder
- Add condition no. 15- limit the min. fuel oil rate, except during start-up and shutdown.
- Add condition no. 16, install fuel oil meter and recorder
- Add condition no. 17- Record keeping condition.
- Add condition no. 19 and 20, FGR standard condition
- Add condition no. 22- Source test condition
- Add periodic monitoring condition no. 26 and 27, because the boilers are allowed to use fuel oil as a stand-by fuel.

## RECOMMENDATIONS

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 Rule 1146 requirements.

FOR THIS APPLICATION THE FOLLOWING DISPOSITION IS RECOMMENDED:

Issue PC for the boilers

BOILER EMISSIONS FOR FIRING ON NATURAL GAS ONLY

## 1. DATA

| | | |
|---|---|---|
| Max burner rating | 68,900,000 | BTU/hr |
| Max hr/dy | 24 | hr/day |
| day per week | 7 | dy/wk |
| wk/yr | 52 | wk/yr |
| Use default NOx E.F. | no | yes/no |
| Use default CO E.F. | NO | |
| Max NOx rate | 5 | ppm |
| Max CO rate | 100 | ppm |
| 30-day ave | 30 | days |
| Ave load-Rule 1401 | 100.0% | |
| Max load-Reg 13 | 100.0% | |
| Fuel HHV | 1050 | btu/ft3 |
| Fuel rate | 65619 | ft3/hr |
| fuel/mon | 47245714 | |
| turn down ratio | 16.67% | |
| min fuel rate | 10938.6952 | ft3/hr |

Emissions factor

| Item | value | units | Ref |
|---|---|---|---|
| ROG | 5.5 | lb/mmcf | AP-42, table 1.4-1 |
| SOx | 0.6 | lb/mmcf | AP-42, table 1.4-1 |
| PM | 7.6 | lb/mmcf | AP-42, table 1.4-1 |
| NOx-default | 100 | lb/mmcf | AP-42, table 1.4-1 |
| CO-default | 85 | lb/mmcf | AP-42, table 1.4-1 |
| MMCF/hr | 0.065619048 | MMCF/hr | |
| therm/hr | 689 | therm/hr | |

ROG, SOX and PM10 Emissions = lb/mmcf * MMCF/hr * load

## 2. Combustion Emissions

| | lb/hr | lb/day | 30-dy ave | lb/yr |
|---|---|---|---|---|
| RHC | 0.3609 | 8.66 | 8.66 | 3153 |
| NOx | 0.42 | 10.03 | 10.03 | 3650.92 |
| SO2 | 0.0394 | 0.9449 | 0.94 | 343.936 |
| CO | 5.09 | 122.16 | 122.16 | 44467.68 |
| PM=PM10=PN | 0.499 | 11.97 | 11.97 | 4359 |

**By EPA Method 19**
By the Ideal Gas Law
=[PV = nRT]
=[n/V = P/RT]
=[lbmol/dscf@68F.]
=[ 1 atm/(0.73 ft3-atm/lb-mole-R*(460 F+68F)) ]
=[ 0.00259 lbmol/dscf ]

**lbNOx/btu**
=[dscf/mmbtu][(10^-6 mmbtu)/btu][20.9/(20.9 -3%O2)][ppmv][Vol Nox/ppm][Mol.Wt. lb/lbmol][lbmol/dscf@68F.]
=[8710][0.000001][20.9/(20.9-3)][5][0.000001][46][0.00259]
=[6.069E-09]

**lbNOx/hr**
=[lb/btu][Rating, btu/hr]
=[6.069E-09][6.89E+07]
=[0.42 lb/hr]

**lbNox/day**
=[lbNOx/hr][hr/day]
=[0.42 lb/hr][24hr/day]
=[10.03 lb/day]

**30 day NOx ave**
=[lbNox/day][days/mon]/[30 days/mon]
=[10.03 lb/day][30days/mon]/[30 days/mon]
=[10.03 lb/day]

**lbNox/year**
=[lbNox/day][days/wk][wk/yr]
=[10.03 lb/day][7days/wk][52wk/yr]
=[3651 lb/year]

**By EPA Method 19**
**lbCO/btu**
=[dscf/mmbtu][(10^-6 mmbtu)/btu][20.9/(20.9 -3%O2)][ppmv][Vol CO/ppm][Mol.Wt. lb/lbmol][lbmol/dscf@68F.]
[8710][0.000001][20.9/(20.9-3)][100][0.000001][28][0.00259]
=[7.388E-08]

**lbCO/hr**
=[lb/btu][Rating, btu/hr]
=[7.388E-08][6.89E+07]
=[5.09 lb/hr]

**lbCO/day**
=[lbCO/hr][hr/day]
=[5.09 lb/hr][24hr/day]
=[122.16 lb/day]

**30 day CO ave**
=[lbCO/day][days/mon]/[30 days/mon]
=[122.16 lb/day][30days/mon]/[30 days/mon]
=[122.16 lb/day]

**lbCO/year**
=[lbCO/day][days/wk][wk/yr]
=[122.16 lb/day][7days/wk][52wk/yr]
=[44468 lb/year]

**lbROG/hr**
[ROG E.F][Firing Rate][Boiler Rating]
[5.50 lb/mmcf][100% ][68.9mmbtu/hr][1cf/1050btu]
[0.3609
lb/hr]

**lbROG/day**
[lbROG/hr] x [hr/day]
[0.36 lb/hr] x [24 hr/day]
[8.66 lb/day]

**30 day ROG ave**
[lbROG/day][days/mon]/[30 days/mon]
[8.66 lb/day][30days/mon]/[30 days/mon]
[8.66 lb/day]

**lbROG/year**
[lbROG/day][days/wk][wk/yr]
lbROG/day[7days/wk][52wk/yr]
[3153 lb/year]

**lbSOx/hr**
[SOx E.F.][Firing Rate][Boiler Rating]
[0.60 lb/mmcf][100% ][68.9mmbtu/hr][1cf/1050btu]
[0.0394 lb/hr]

**lbSOx/day**
[lbSOx/hr] x [hr/day]
[0.0394 lb/hr] x [24 hr/day]
[0.9449 lb/day]

**30 day SOx ave**
[lbSOx/day][days/mon]/[30 days/mon]
[0.9449 lb/day][30days/mon]/[30 days/mon]
[0.9449 lb/day]

**lbSOx/year**
[lbSOx/day][days/wk][wk/yr]
[0.9449 lb/day][7days/wk][52wk/yr]
[344 lb/year]

**lbPM/hr**
[PM E.F.][Firing Rate][Boiler Rating]
[7.60 lb/mmcf][100% ][68.9mmbtu/hr][1cf/1050btu]
[0.4990 lb/hr]

**lbPM/day**
[lbPM/hr] x [hr/day]
[0.4990 lb/hr] x [24 hr/day]
[11.9760 lb/day]

**30 day PM ave**
[lbPM/day][days/mon]/[30 days/mon]

[11.9760 lb/day][30days/mon]/[30 days/mon]
[11.9760 lb/day]

**lbPM/year**
[lbPM/day][days/wk][wk/yr]
[11.9760 lb/day][7days/wk][52wk/yr]
[4359 lb/year]

**3. Rule 1303 (b)(1)-Screen Table A-1**

| | Emissions rate (lb/hr) | | |
|---|---|---|---|
| Item | Allowed | calculated | Compliance |
| NOx | #N/A | 0.42 | #N/A |
| CO | #N/A | 5.09 | #N/A |
| PM10 | #N/A | 0.50 | #N/A |

**4. Rule 1401 Emissions Calculations**

| | | | | | | |
|---|---|---|---|---|---|---|
| VOC reduction | #REF! | percent | | | | |
| Fuel usage | #REF! | mmcf/hr | | nsr | nsr | nsr |
| item | EF(lb/mmcf) | R1-lb/hr | R2lb/hr | R1 E-06 | R1 E-06 | R2 lb/yr |
| toluene | 2.65E-02 | #REF! | #REF! | #REF! | #REF! | #REF! |
| xylenes | 1.97E-02 | #REF! | #REF! | #REF! | #REF! | #REF! |
| naphthalene | 3.00E-04 | #REF! | #REF! | #REF! | #REF! | #REF! |
| PAH | 1.00E-04 | #REF! | #REF! | #REF! | #REF! | #REF! |
| acrolein | 2.70E-03 | #REF! | #REF! | #REF! | #REF! | #REF! |
| acetaldehyde | 3.10E-03 | #REF! | #REF! | #REF! | #REF! | #REF! |
| benzene | 5.80E-03 | #REF! | #REF! | #REF! | #REF! | #REF! |
| formaldehyde | 1.23E-02 | #REF! | #REF! | #REF! | #REF! | #REF! |
| propylene | 5.30E-01 | #REF! | #REF! | #REF! | #REF! | #REF! |
| ethy benzene | 6.90E-03 | #REF! | #REF! | #REF! | #REF! | #REF! |
| hexane | 4.60E-03 | #REF! | #REF! | #REF! | #REF! | #REF! |
| | | | | | | |

Referance AB-2588 Emissions factors

BOILER EMISSIONS FOR FIRING ON NATURAL GAS ONLY

## 1. DATA

| | | |
|---|---|---|
| Max burner rating | 68,900,000 | BTU/hr |
| Max hr/dy | 24 | hr/day |
| day per week | 7 | dy/wk |
| wk/yr | 52 | wk/yr |
| Use default NOx E.F. | no | yes/no |
| Use default CO E.F. | NO | |
| Max NOx rate | 30 | ppm |
| Max CO rate | 100 | ppm |
| 30-day ave | 30 | days |
| Ave load-Rule 1401 | 100.0% | |
| Max load-Reg 13 | 100.0% | |
| Fuel HHV | 1050 | btu/ft3 |
| Fuel rate | 65619 | ft3/hr |
| fuel/mon | 47245714 | |
| turn down ratio | 25.00% | |
| min fuel rate | 16404.7619 | ft3/hr |

Emissions factor

| Item | value | units | Ref |
|---|---|---|---|
| ROG | 5.5 | lb/mmcf | AP-42, table 1.4-1 |
| SOx | 0.6 | lb/mmcf | AP-42, table 1.4-1 |
| PM | 7.6 | lb/mmcf | AP-42, table 1.4-1 |
| NOx-default | 100 | lb/mmcf | AP-42, table 1.4-1 |
| CO-default | 85 | lb/mmcf | AP-42, table 1.4-1 |
| MMCF/hr | 0.065619048 | MMCF/hr | |
| therm/hr | 689 | therm/hr | |

ROG, SOX and PM10 Emissions = lb/mmcf * MMCF/hr * load

## 2. Combustion Emissions

| | lb/hr | lb/day | 30-dy ave | lb/yr |
|---|---|---|---|---|
| RHC | 0.3609 | 8.66 | 8.66 | 3153 |
| NOx | 2.51 | 60.21 | 60.21 | 21916.44 |
| SO2 | 0.0394 | 0.9449 | 0.94 | 343.936 |
| CO | 5.09 | 122.16 | 122.16 | 44467.68 |
| PM=PM10=PM | 0.499 | 11.97 | 11.97 | 4359 |

**By EPA Method 19**
By the Ideal Gas Law
=[PV = nRT]
=[n/V = P/RT]
=[lbmol/dscf@68F.]
=[ 1 atm/(0.73 ft3-atm/lb-mole-R*(460 F+68F)) ]
=[ 0.00259 lbmol/dscf ]