

South Coast Air Quality Management District

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

June 29, 2012

Mr. Robert Ross
Hospital Administrator
Los Angeles County Olive View/UCLA Medical Center
14445 Olive View Dr.
Sylmar, CA 91342

SUBJECT: Title V Facility Minor Permit Revision (Facility ID: 3093)

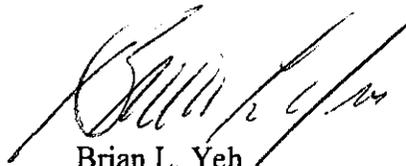
Dear Mr. Ross:

Please find attached the Title Page, Table of Contents, and Section D of your Title V Facility Permit. The sections reflect modification of the waste heat recovery units by replacing the existing burners with new burners that was originally requested in your Title V Revision Application No. 514691. This permit revision includes the conversion of the Permits to Construct to Permits to Operate. The EPA received a copy of the draft Section H Title V permit on February 24, 2011 and they received the final Section H Title V permit on April 26, 2011.

Equipment	Application No.	Permit Type
Cogeneration System	512457	PTO
Cogeneration System	512458	PTO

Please review the attached sections carefully. Insert the enclosed sections into your Title V Facility Permit and discard the earlier versions. Questions concerning changes to your permit should be directed to Mr. Marcel Saulis at (909) 396-3093.

Sincerely,



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

BLY:AYL:approval
Attachment

cc: Gerardo Rios, EPA Region IX – via email (R9AirPermits_sc@epa.gov)
Cher Snyder, Senior Enforcement Manager

FACILITY PERMIT TO OPERATE

**LA CO., OLIVE VIEW/UCLA MEDICAL CENTER
14445 OLIVE VIEW DR.
SYLMAR, CA 91342**

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By 
Mohsen Nazem, P.E.
Deputy Executive Officer
Engineering & Compliance

**FACILITY PERMIT TO OPERATE
LA CO., OLIVE VIEW/UCLA MEDICAL CENTER**

TABLE OF CONTENTS

Section	Description	Revision #	Date Issued
A	Facility Information	1	10/18/2011
B	RECLAIM Annual Emission Allocation	1	10/18/2011
C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	3	06/29/2012
E	Administrative Conditions	1	10/18/2011
F	RECLAIM Monitoring and Source Testing Requirements	1	10/18/2011
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	1	10/18/2011
H	Permit To Construct and Temporary Permit to Operate	0	04/28/2006
I	Compliance Plans & Schedules	1	10/18/2011
J	Air Toxics	1	10/18/2011
K	Title V Administration	1	10/18/2011
Appendix			
A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	1	10/18/2011
B	Rule Emission Limits	1	10/18/2011

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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.

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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
274353	D69497	AFTERBURNER, CATALYTIC
275220	D66806	ETHYLENE OXIDE STERILIZATION HOSPITAL
275221	D66821	ETHYLENE OXIDE STERILIZATION HOSPITAL
278455	D70989	ICE (50-500 BHP) EM ELEC GEN, DIESEL
286586	F21040	TURBINE ENGINE (<= 50MW) NG & MISC
286587	F21039	TURBINE ENGINE (<= 50MW) NG & MISC
363086	F23608	ICE (>500 BHP) EM ELEC GEN, DIESEL
363087	F23610	ICE (>500 BHP) EM ELEC GEN, DIESEL
G01385	P18886	SPRAY BOOTH PAINT AND SOLVENT
512457	G18900	TURBINE ENGINE (<= 50MW) NG & MISC
512458	G18901	TURBINE ENGINE (<= 50MW) NG & MISC

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.

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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 0.05 PERCENT BY WEIGHT.
[RULE 431.2]

3. THE OPERATOR SHALL NOT PURCHASE ANY DIESEL FUEL UNLESS THE FUEL IS LOW SULFUR DIESEL FOR WHICH THE SULFUR CONTENT SHALL NOT EXCEED 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER
[RULE 431.2]

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**Permit No. D69497
A/N 274353**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. CATALYTIC OXIDIZER, DONALDSON, MODEL EXT 00-6501, 2'-2"W. X 2' -2" L. X 6-10" H., (EXTERIOR DIMENSIONS), WITH AN ELECTRIC HEATER, AN INLET PARTICULATE FILTER, A VACUUM PUMP AND A CATALYTIC CELL.
2. EXHAUST SYSTEM WITH AN AIR BLOWER, VENTING TWO ETHYLENE OXIDE STERILIZERS.

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. ONLY ONE STERILIZER MAY BE VENTED TO THE CATALYTIC INCINERATOR AT ANY ONE TIME.
[RULE 1405]
4. RECORDS SHALL BE MAINTAINED TO SHOW COMPLIANCE WITH THE ABOVE CONDITIONS. RECORDS SHALL BE KEPT FOR AT LEAST TWO YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1405]
5. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT AN ANNUAL SOURCE TESTS PER DISTRICT RULE 1405(d)(6).
[RULE 1405]
6. THE TEMPERATURE OF THE EXHAUST TO THE CATALYST BED SHALL BE MAINTAINED BETWEEN 280 DEGREES FAHRENHEIT AND 500 DEGREES FAHRENHEIT AS INDICATED BY A PROPER TEMPERATURE GAUGE AND/OR RECORDER
[RULE 1405]

Emissions and Requirements:

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

ETHYLENE OXIDE: RULE 1405
ETHYLENE OXIDE: 40 CFR Part 63 Subpart WWWW

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PERMIT TO OPERATE

**Permit No. D66806
A/N 275220**

Equipment Description:

ETHYLENE OXIDE GAS STERILIZER/AERATOR, UNIT A, SERIAL NO. 632565, CASTLE, MODEL 4171, 2-2-, W. X 6'-4"L. X 5'-2" H. (INTERIOR DIMENSIONS), STEAM HEATED, WITH A VACUUM PUMP.

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 MAXIMUM AMOUNT OF STERILIZING GAS USED IN THIS EQUIPMENT SHALL NOT EXCEED 28 POUNDS IN ANY DAY OR 605 POUNDS IN ANY MONTH.
[RULE 1405, RULE 1401]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE STERILIZER IS VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO CONSTRUCT BY THE EXECUTIVE OFFICER.
[RULE 1405, RULE 1401]
5. THIS EQUIPMENT SHALL BE LEAK CHECKED PER DISTRICT RULE 1405 (d)(5).
[RULE 1405]
6. RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH CONDITION NO. 3 AND 4. RECORDS SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1405, RULE 1401]

Emissions and Requirements:

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

ETHYLENE OXIDE: RULE 1405
ETHYLENE OXIDE: 40 CFR Part 63 Subpart WWWW

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**Permit No. D66821
A/N 275221**

Equipment Description:

ETHYLENE OXIDE GAS STERILIZER/AERATOR, UNIT B, SERIAL NO. 632561, CASTLE, MODEL 4171, 2-2-, W. X 6'-4" L. X 5'-2" H. (INTERIOR DIMENSIONS), STEAM HEATED, WITH A VACUUM PUMP.

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 MAXIMUM AMOUNT OF STERILIZING GAS USED IN THIS EQUIPMENT SHALL NOT EXCEED 28 POUNDS IN ANY DAY OR 605 POUNDS IN ANY MONTH.
[RULE 1405]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE STERILIZER IS VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO CONSTRUCT BY THE EXECUTIVE OFFICER.
[RULE 1405]
5. THIS EQUIPMENT SHALL BE LEAK CHECKED PER DISTRICT RULE 1405 (d)(5).
[RULE 1405]
6. RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH CONDITION NO. 3 AND 4. RECORDS SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1405]

Emissions and Requirements:

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

ETHYLENE OXIDE: RULE 1405
ETHYLENE OXIDE: 40 CFR Part 63 Subpart WWWW

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LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

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**Permit No. D70989
A/N 278455**

Equipment Description:

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO. D397D, SERIAL NO. 41B2342, FOUR CYCLE, TWELVE CYLINDER, TURBOCHARGED, AFTERCOOLED, DIESEL-FIRED, 402 HP, 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. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1470.
[RULE 1470]
4. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.
[RULE 1303 (a)-BACT]
5. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT.
[RULE 1470]
6. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE.
[RULE 1110.2, RULE 1303 (a), RULE 1304 (a)(4), RULE 1470]
7. OPERATING BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1470]

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

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

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

THE ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.
[RULE 1303 (b)(2)]
12. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO STANDARD TIMING.
[RULE 1303(a) - BACT]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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**Permit No. G18900
A/N 512457**

Equipment Description:

COGENERATION SYSTEM NO. 1 (TRAIN A) CONSISTING OF:

1. GAS TURBINE NO. 1, DETROIT DIESEL, ALLISON, MODEL NO. 501-KB, SERIAL NO. ASPI014, 39,400,000 BTU PER HOUR, GAS OR OIL FIRED, WITH WATER INJECTION SYSTEM, DRIVING A 2.89 MW ELECTRICAL GENERATOR.
2. WASTE HEAT RECOVERY UNIT, ECO, MODEL NO. 6328-2, AMERICAN COMBUSTION TECHNOLOGIES, MODEL NO. ACT07G-SLE, 19,500,000 BTU/HR, NATURAL GAS FIRED.
3. FLUE GAS COMPRESSOR NO. 1, 100 H.P.
4. GAS TURBINE STARTING ENGINE NO. 1, DETROIT DIESEL, MODEL NO 4-71, 140 H.P.

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 ONLY BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. EMISSIONS OF NITROGEN OXIDES FROM THE COGENERATION GAS TURBINE SHALL NOT EXCEED 25 PPMV, CORRECTED TO 15% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1134]
5. EMISSIONS OF NITROGEN OXIDES FROM THE SIMULTANEOUS OPERATION OF THE COGENERATION GAS TURBINE AND AUXILIARY BURNER SHALL NOT EXCEED 25 PPMV, CORRECTED TO 15% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1134]
6. EMISSIONS OF NITROGEN OXIDES FROM THE OPERATION OF THE AUXILIARY BURNER (WHEN THE GAS TURBINE IS SHUTDOWN) SHALL NOT EXCEED 9 PPMV, CORRECTED TO 3% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1146]

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7. THE COGENERATION GAS TURBINE SHALL NOT BE OPERATED ABOVE A MAXIMUM POWER OUTPUT OF 2.899 MW.
[RULE 1134]

8. THIS EQUIPMENT SHALL NOT BE FIRED ON FUEL OIL EXCEPT DURING A STATE OF EMERGENCY IN ACCORDANCE WITH PROVISIONS OF RULE 118.
[RULE 118]

9. EMISSIONS FROM THIS COGENERATION SYSTEM SHALL NOT EXCEED:

POLLUTANT	CO	NOX	PM10	ROG	SOX
LB/DAY	281	131	15	115	1

[RULE 1134]

10. WATER INJECTION SHALL BE USED DURING OPERATION OF THE GAS TURBINE AT ALL TIMES EXCEPT DURING START-UPS. THE MINIMUM WATER-TO-FUEL INJECTION MASS RATIO SHALL BE MAINTAINED AT 0.9 TO 1.0.
[RULE 1134]

11. THE CONTINUOUS MONITORING SYSTEM SHALL MEASURE AND RECORD THE WATER-TO-FUEL INJECTION MASS RATIO AND SHALL BE PROPERLY OPERATED AND MAINTAINED IN CALIBRATION WITH AN ACCURACY TO WITHIN PLUS OR MINUS 5.0 PERCENT.
[RULE 1134]

12. DAILY RECORDS FOR THE TOTAL FUEL USAGE BY TYPE, WATER-TO-FUEL INJECTION MASS RATIO, ELECTRICAL OUTPUT, USEFUL THERMAL OUTPUT, AND OPERATING HOURS OF THE COGENERATION, AND OPERATING DURING RULE 118 EMERGENCIES SHALL BE KEPT AND MAINTAINED ON FILE FOR AT LEAST TWO YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1134, RULE 118]

13. THIS EQUIPMENT IS SUBJECT TO THE STANDARDS OF PERFORMANCE FOR STATIONARY GAS TURBINES UNDER EPA CFR 40, PART 60, SUBPARTS A AND GG, AND SHALL COMPLY WITH THE NOTIFICATION, RECORD KEEPING AND REPORTING REQUIREMENTS OF SUBPART GG FOR THIS EQUIPMENT PURSUANT TO SECTION 60.7.
[RULE 1134, CFR 40, PART 60, SUBPART GG]

14. THE COGENERATION SYSTEM SHALL COMPLY WITH THE APPLICABLE REQUIREMENT OF RULE 1134.
[RULE 1134]

15. THE AUXILIARY BURNER (WHEN THE GAS TURBINE IS SHUTDOWN) SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF RULE 1146.
[RULE 1146]

16. FOR THE AUXILIARY BURNER ONLY, THE BURNER SHALL NOT FIRE ON LESS THAN 3714 SCF/HR OF NATURAL GAS DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.
[RULE 1146]

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17. FOR THE AUXILIARY BURNER, 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]

Periodic Monitoring:

18. FOR THE GAS TURBINE, THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS 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 PURPOSES; 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 RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]
19. 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 1134 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

20. 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 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 CONDITION NO. 9 CO 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)]

21. FOR THE WASTE HEAT RECOVERY UNIT, THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE 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 RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

22. THE OPERATOR SHALL CONDUCT AN ANNUAL TUNE-UP IN ACCORDANCE WITH THE TUNE-UP PROCEDURE OF RULE 1146 WHENEVER THE FUEL OIL CONSUMPTION OF THE BOILER EXCEEDS 1 MILLION GALLONS OR THE BOILER IS FIRED ON FUEL OIL FOR MORE THAN 336 HOURS IN ANY ONE YEAR. THE OPERATOR SHALL KEEP RECORDS IN ACCORDANCE WITH THE

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS: (A) DATE OF EACH TUNE-UP, (B) THE COMPANY PERFORMING THE TUNE-UP, (C) AND THE TUNE-UP RESULTS.

[RULE 3004 (a)(4)]

23. 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 DOES 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.

[RULE 3004 (a)(4)]

24. FOR THE AUXILIARY BURNER ONLY, THE OPERATOR OR CONTRACTOR IN-CHARGE OF EQUIPMENT OPERATION SHALL PERFORM THE FOLLOWING PROCEDURES:

PERIODIC TESTING OF NOX AND CO EMISSIONS USING A PORTABLE ANALYZER TAKEN IN ACCORDANCE WITH THE "PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN FROM UNITS SUBJECT TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULES 1146 AND 1146.1". EMISSION READINGS SHALL BE TAKEN AT THE EXHAUST OUTLET EVERY MINUTE FOR 15 MINUTES. THE TESTS SHALL BE CONDUCTED WHEN THE UNIT IS OPERATING AT NORMAL CONDITION AND SHALL BE DONE AT LEAST MONTHLY OR EVERY 750 UNIT OPERATING HOURS WHICHEVER OCCURS LATER. THE TESTS SHALL BE CONDUCTED BY THE OPERATOR WHO HAS COMPLETED AN AQMD TRAINING PROGRAM AND RECEIVED A CERTIFICATION ISSUED BY THE DISTRICT

IF THE BOILER IS IN COMPLIANCE FOR THREE CONSECUTIVE REQUIRED EMISSION CHECKS, WITHOUT ANY ADJUSTMENTS TO THE OXYGEN SENSOR SET POINTS, THEN THE UNIT MAY BE CHECKED QUARTERLY OR EVERY 2000 UNIT OPERATING HOURS WHICHEVER OCCURS LATER, UNTIL THERE IS AN EMISSION CHECK INDICATING NONCOMPLIANCE.

MONITORING RECORDS SHALL BE MAINTAINED FOR A ROLLING TWELVE MONTH PERIOD OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 3004 (a)(4), RULE 1146]

25. FOR THE AUXILIARLY BURNER ONLY, THE OPERATOR SHALL CONDUCT SOURCE TESTING FOR NOX, CO AND O2 (CONCENTRATION IN PPM BY VOLUME, CORRECTED TO 3% O2 ON A DRY BASIS) AT LEAST ONCE EVERY THREE YEARS. ALL EMISSION DETERMINATIONS SHALL BE MADE IN THE AS-FOUND OPERATING CONDITION. TESTING SHALL BE CONDUCTED AT LEAST 250 OPERATING HOURS, OR AT LEAST 30 DAYS SUBSEQUENT TO THE TUNING OR SERVICING OF ANY UNIT, UNLESS IT IS AN UNSCHEDULED REPAIR.

[RULE 3004 (a)(4), RULE 1146]

26. THE COMBUSTION BURNER SHALL BE INSPECTED AND MAINTAINED PER THE MANUFACTURER'S SPECIFICATIONS. RECORDS SHALL BE KEPT ON FILE FOR INSPECTIONS AND MAINTENANCE FOR AT LEAST FIVE YEARS.

[RULE 3004 (a)(4), RULE 1146]

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LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

Emissions And Requirements:

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

CO: 2000 PPMV, RULE 407
SOX: 500 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409
CO: 400 PPMV, RULE 1146
NOX: 9 PPMV, RULE 1146
NOX: 25 PPMV, RULE 1134
NOX: 150 PPMV, 40 CFR 60 SUBPART GG
SOX: 150 PPMV, 40 CFR 60 SUBPART GG

**FACILITY PERMIT TO OPERATE
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PERMIT TO OPERATE

**Permit No. G18901
A/N 512458**

Equipment Description:

COGENERATION SYSTEM NO. 2 (TRAIN B) CONSISTING OF:

1. GAS TURBINE NO. 1, DETROIT DIESEL, ALLISON, MODEL NO. 501-KB, SERIAL NO. ASPI015, 39,400,000 BTU PER HOUR, GAS OR OIL FIRED, WITH WATER INJECTION SYSTEM, DRIVING A 2.89 MW ELECTRICAL GENERATOR.
2. WASTE HEAT RECOVERY UNIT, ECO, MODEL NO. 6328-2, WITH AN AUXILIARY BURNER, AMERICAN COMBUSTION TECHNOLOGIES, MODEL NO. ACT07G-SLE, 19,500,000 BTU/HR, NATURAL GAS FIRED.
3. FLUE GAS COMPRESSOR NO. 2, 100 H.P.
4. GAS TURBINE STARTING ENGINE NO. 2, DETROIT DIESEL, MODEL NO 4-71, 140 H.P.

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 ONLY BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. EMISSIONS OF NITROGEN OXIDES FROM THE COGENERATION GAS TURBINE SHALL NOT EXCEED 25 PPMV, CORRECTED TO 15% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1134]
5. EMISSIONS OF NITROGEN OXIDES FROM THE SIMULTANEOUS OPERATION OF THE COGENERATION GAS TURBINE AND AUXILIARY BURNER SHALL NOT EXCEED 25 PPMV, CORRECTED TO 15% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1134]
6. EMISSIONS OF NITROGEN OXIDES FROM THE OPERATION OF THE AUXILIARY BURNER (WHEN THE GAS TURBINE IS SHUTDOWN) SHALL NOT EXCEED 9 PPMV, CORRECTED TO 3% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1146]

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

7. THE COGENERATION GAS TURBINE SHALL NOT BE OPERATED ABOVE A MAXIMUM POWER OUTPUT OF 2.899 MW.
[RULE 1134]
8. THIS EQUIPMENT SHALL NOT BE FIRED ON FUEL OIL EXCEPT DURING A STATE OF EMERGENCY IN ACCORDANCE WITH PROVISIONS OF RULE 118.
[RULE 118]
9. EMISSIONS FROM THIS COGENERATION SYSTEM SHALL NOT EXCEED:
- | POLLUTANT | CO | NOX | PM10 | ROG | SOX |
|-----------|-----|-----|------|-----|-----|
| LB/DAY | 281 | 131 | 15 | 115 | 1 |
- [RULE 1134]
10. WATER INJECTION SHALL BE USED DURING OPERATION OF THE GAS TURBINE AT ALL TIMES EXCEPT DURING START-UPS. THE MINIMUM WATER-TO-FUEL INJECTION MASS RATIO SHALL BE MAINTAINED AT 0.9 TO 1.0.
[RULE 1134]
11. THE CONTINUOUS MONITORING SYSTEM SHALL MEASURE AND RECORD THE WATER-TO-FUEL INJECTION MASS RATIO AND SHALL BE PROPERLY OPERATED AND MAINTAINED IN CALIBRATION WITH AN ACCURACY TO WITHIN PLUS OR MINUS 5.0 PERCENT.
[RULE 1134]
12. DAILY RECORDS FOR THE TOTAL FUEL USAGE BY TYPE, WATER-TO-FUEL INJECTION MASS RATIO, ELECTRICAL OUTPUT, USEFUL THERMAL OUTPUT, AND OPERATING HOURS OF THE COGENERATION, AND OPERATING DURING RULE 118 EMERGENCIES SHALL BE KEPT AND MAINTAINED ON FILE FOR AT LEAST TWO YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1134, RULE 118]
13. THIS EQUIPMENT IS SUBJECT TO THE STANDARDS OF PERFORMANCE FOR STATIONARY GAS TURBINES UNDER EPA CFR 40, PART 60, SUBPARTS A AND GG, AND SHALL COMPLY WITH THE NOTIFICATION, RECORD KEEPING AND REPORTING REQUIREMENTS OF SUBPART GG FOR THIS EQUIPMENT PURSUANT TO SECTION 60.7.
[RULE 1134, CFR 40, PART 60, SUBPART GG]
14. THE COGENERATION SYSTEM SHALL COMPLY WITH THE APPLICABLE REQUIREMENT OF RULE 1134.
[RULE 1134]
15. THE AUXILIARY BURNER (WHEN THE GAS TURBINE IS SHUTDOWN) SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF RULE 1146.
[RULE 1146]
16. FOR THE AUXILIARY BURNER ONLY, THE BURNER SHALL NOT FIRE ON LESS THAN 3714 SCF/HR OF NATURAL GAS DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.
[RULE 1146]

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

17. FOR THE AUXILIARY BURNER, 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]

Periodic Monitoring:

18. FOR THE GAS TURBINE, THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS 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 PURPOSES; 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 RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

19. 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 1134 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a)(4)]

20. 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 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 CONDITION NO. 9 CO 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)]

21. FOR THE WASTE HEAT RECOVERY UNIT, THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE 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 RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

22. THE OPERATOR SHALL CONDUCT AN ANNUAL TUNE-UP IN ACCORDANCE WITH THE TUNE-UP PROCEDURE OF RULE 1146 WHENEVER THE FUEL OIL CONSUMPTION OF THE BOILER EXCEEDS 1 MILLION GALLONS OR THE BOILER IS FIRED ON FUEL OIL FOR MORE THAN 336 HOURS IN ANY ONE YEAR. THE OPERATOR SHALL KEEP RECORDS IN ACCORDANCE WITH THE

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS: (A) DATE OF EACH TUNE-UP, (B) THE COMPANY PERFORMING THE TUNE-UP, (C) AND THE TUNE-UP RESULTS.
[RULE 3004 (a)(4)]

23. 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 DOES 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.
[RULE 3004 (a)(4)]

24. FOR THE AUXILIARY BURNER ONLY, THE OPERATOR OR CONTRACTOR IN-CHARGE OF EQUIPMENT OPERATION SHALL PERFORM THE FOLLOWING PROCEDURES:

PERIODIC TESTING OF NOX AND CO EMISSIONS USING A PORTABLE ANALYZER TAKEN IN ACCORDANCE WITH THE "PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN FROM UNITS SUBJECT TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULES 1146 AND 1146.1". EMISSION READINGS SHALL BE TAKEN AT THE EXHAUST OUTLET EVERY MINUTE FOR 15 MINUTES. THE TESTS SHALL BE CONDUCTED WHEN THE UNIT IS OPERATING AT NORMAL CONDITION AND SHALL BE DONE AT LEAST MONTHLY OR EVERY 750 UNIT OPERATING HOURS WHICHEVER OCCURS LATER. THE TESTS SHALL BE CONDUCTED BY THE OPERATOR WHO HAS COMPLETED AN AQMD TRAINING PROGRAM AND RECEIVED A CERTIFICATION ISSUED BY THE DISTRICT

IF THE BOILER IS IN COMPLIANCE FOR THREE CONSECUTIVE REQUIRED EMISSION CHECKS, WITHOUT ANY ADJUSTMENTS TO THE OXYGEN SENSOR SET POINTS, THEN THE UNIT MAY BE CHECKED QUARTERLY OR EVERY 2000 UNIT OPERATING HOURS WHICHEVER OCCURS LATER, UNTIL THERE IS AN EMISSION CHECK INDICATING NONCOMPLIANCE.

MONITORING RECORDS SHALL BE MAINTAINED FOR A ROLLING TWELVE MONTH PERIOD OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004 (a)(4), RULE 1146]

25. FOR THE AUXILIARLY BURNER ONLY, THE OPERATOR SHALL CONDUCT SOURCE TESTING FOR NOX, CO AND O2 (CONCENTRATION IN PPM BY VOLUME, CORRECTED TO 3% O2 ON A DRY BASIS) AT LEAST ONCE EVERY THREE YEARS. ALL EMISSION DETERMINATIONS SHALL BE MADE IN THE AS-FOUND OPERATING CONDITION. TESTING SHALL BE CONDUCTED AT LEAST 250 OPERATING HOURS, OR AT LEAST 30 DAYS SUBSEQUENT TO THE TUNING OR SERVICING OF ANY UNIT, UNLESS IT IS AN UNSCHEDULED REPAIR.
[RULE 3004 (a)(4), RULE.1146]
26. THE COMBUSTION BURNER SHALL BE INSPECTED AND MAINTAINED PER THE MANUFACTURER'S SPECIFICATIONS. RECORDS SHALL BE KEPT ON FILE FOR INSPECTIONS AND MAINTENANCE FOR AT LEAST FIVE YEARS.
[RULE 3004 (a)(4), RULE 1146]

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

Emissions And Requirements:

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

CO: 2000 PPMV, RULE 407
SOX: 500 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409
CO: 400 PPMV, RULE 1146
NOX: 9 PPMV, RULE 1146
NOX: 25 PPMV, RULE 1134
NOX: 150 PPMV, 40 CFR 60 SUBPART GG
SOX: 150 PPMV, 40 CFR 60 SUBPART GG

**FACILITY PERMIT TO OPERATE
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PERMIT TO OPERATE

**Permit No. F23608
A/N 363086**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 12 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL NO. 3512 DITA (1000 KW), SERIAL NO. 24Z00912, 1443 BHP, DIESEL-FUELED, 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. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1470.
[RULE 1470]
4. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.
[RULE 1303 (a)-BACT]
5. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT.
[RULE 1470]
6. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE.
[RULE 1110.2, RULE 1303 (a), RULE 1304 (a)(4), RULE 1470]
7. OPERATING BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1470]

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

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

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

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

THE ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.
[RULE 1303 (b)(2)]
12. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO PRODUCTION TIMING AS ESTABLISHED BY CATERPILLAR IN PRODUCT NEWS BULLETIN "REQUIREMENTS TO COMPLY WITH SCAQMD" CERTIFIED EQUIPMENT.
[RULE 1303(a) – BACT]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. F23610
A/N 363087**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 12 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL NO. 3512 DITA (1100 KW) SERIAL NO. 24Z00911, 1592 BHP, DIESEL-FUELED, 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. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1470.
[RULE 1470]
4. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.
[RULE 1303 (a)-BACT]
5. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT.
[RULE 1470]
6. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE.
[RULE 1110.2, RULE 1303 (a), RULE 1304 (a)(4), RULE 1470]
7. OPERATING BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1470]

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

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

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

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

THE ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.
[RULE 1303 (b)(2)]
12. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO PRODUCTION TIMING AS ESTABLISHED BY CATERPILLAR IN PRODUCT NEWS BULLETIN "REQUIREMENTS TO COMPLY WITH SCAQMD" CERTIFIED EQUIPMENT.
[RULE 1303(a) - BACT]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. P18886
A/N G-01385**

Equipment Description:

SPRAY BOOTH, DEVILBISS, DRY FLOOR FILTER TYPE, 8' W. X 7' H X 6' D., WITH A 2 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 COMPLY WITH RULES 1107, 1136, AND 1171.
[RULE 1107, RULE 1136, RULE 1171]

Periodic Monitoring:

4. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER MEDIA ONCE EVERY WEEK.
[RULE 3004(a)(4)]
5. 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)]
6. 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)]
7. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMENTER(S) OR ITEMS:
 - 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

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.

[RULE 3004(a)(4)]

Emissions and Requirements:

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

VOC: RULE 109

VOC: RULE 1107, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1136, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 481

VOC: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

PERMIT TO CONSTRUCT

**Permit No. TBD
A/N 512457**

Equipment Description:

MODIFICATION OF COGENERATION SYSTEM NO. 1 (TRAIN A) CONSISTING OF:

1. GAS TURBINE NO. 1, DETROIT DIESEL, ALLISON, MODEL NO. 501-KB, SERIAL NO. ASPI014, 39,400,000 BTU PER HOUR, GAS OR OIL FIRED, WITH WATER INJECTION SYSTEM, DRIVING A 2.89 MW ELECTRICAL GENERATOR.
2. WASTE HEAT RECOVERY UNIT, ECO, MODEL NO. 6328-2, WITH AN AUXILIARY BURNER, NORTH AMERICAN, MODEL NO. 6213-20-46, 19,500,000 BTU/HR, NATURAL GAS OR OIL FIRED,
3. FLUE GAS COMPRESSOR NO. 1, 100 H.P.
4. GAS TURBINE STARTING ENGINE NO. 1, DETROIT DIESEL, MODEL NO 4-71, 140 H.P.

WITH THE REPLACEMENT OF THE WASTE HEAT RECOVERY UNIT'S AUXILIARY BURNER WITH A:

1. AN AUXILIARY BURNER, AMERICAN COMBUSTION TECHNOLOGIES, MODEL NO. ACT07G-SLE, 19,500,000 BTU/HR, NATURAL GAS FIRED.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL ONLY BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. EMISSIONS OF NITROGEN OXIDES FROM THE COGENERATION GAS TURBINE SHALL NOT EXCEED 25 PPMV, CORRECTED TO 15% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1134]
5. EMISSIONS OF NITROGEN OXIDES FROM THE SIMULTANEOUS OPERATION OF THE COGENERATION GAS TURBINE AND AUXILIARY BURNER SHALL NOT EXCEED 25 PPMV, CORRECTED TO 15% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1134]

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

6. EMISSIONS OF NITROGEN OXIDES FROM THE OPERATION OF THE AUXILIARY BURNER (WHEN THE GAS TURBINE IS SHUTDOWN) SHALL NOT EXCEED 9 PPMV, CORRECTED TO 3% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1146]
7. THE COGENERATION GAS TURBINE SHALL NOT BE OPERATED ABOVE A MAXIMUM POWER OUTPUT OF 2.899 MW.
[RULE 1134]
8. THIS EQUIPMENT SHALL NOT BE FIRED ON FUEL OIL EXCEPT DURING A STATE OF EMERGENCY IN ACCORDANCE WITH PROVISIONS OF RULE 118.
[RULE 118]
9. EMISSIONS FROM THIS COGENERATION SYSTEM SHALL NOT EXCEED:
- | POLLUTANT | CO | NOX | PM10 | ROG | SOX |
|-----------|-----|-----|------|-----|-----|
| LB/DAY | 281 | 131 | 15 | 115 | 1 |
- [RULE 1134]
10. WATER INJECTION SHALL BE USED DURING OPERATION OF THE GAS TURBINE AT ALL TIMES EXCEPT DURING START-UPS. THE MINIMUM WATER-TO-FUEL INJECTION MASS RATIO SHALL BE MAINTAINED AT 0.9 TO 1.0.
[RULE 1134]
11. THE CONTINUOUS MONITORING SYSTEM SHALL MEASURE AND RECORD THE WATER-TO-FUEL INJECTION MASS RATIO AND SHALL BE PROPERLY OPERATED AND MAINTAINED IN CALIBRATION WITH AN ACCURACY TO WITHIN PLUS OR MINUS 5.0 PERCENT.
[RULE 1134]
12. DAILY RECORDS FOR THE TOTAL FUEL USAGE BY TYPE, WATER-TO-FUEL INJECTION MASS RATIO, ELECTRICAL OUTPUT, USEFUL THERMAL OUTPUT, AND OPERATING HOURS OF THE COGENERATION, AND OPERATING DURING RULE 118 EMERGENCIES SHALL BE KEPT AND MAINTAINED ON FILE FOR AT LEAST TWO YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1134, RULE 118]
13. THIS EQUIPMENT IS SUBJECT TO THE STANDARDS OF PERFORMANCE FOR STATIONARY GAS TURBINES UNDER EPA CFR 40, PART 60, SUBPARTS A AND GG, AND SHALL COMPLY WITH THE NOTIFICATION, RECORD KEEPING AND REPORTING REQUIREMENTS OF SUBPART GG FOR THIS EQUIPMENT PURSUANT TO SECTION 60.7.
[RULE 1134, CFR 40, PART 60, SUBPART GG]
14. THE COGENERATION SYSTEM SHALL COMPLY WITH THE APPLICABLE REQUIREMENT OF RULE 1134.
[RULE 1134]
15. THE AUXILIARY BURNER (WHEN THE GAS TURBINE IS SHUTDOWN) SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF RULE 1146.
[RULE 1146]

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

16. FOR THE AUXILIARY BURNER ONLY, THE BURNER SHALL NOT FIRE ON LESS THAN 3714 SCF/HR OF NATURAL GAS DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.
[RULE 1146]
17. FOR THE AUXILIARY BURNER, 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]
18. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS ON THE EQUIPMENT UNDER THE FOLLOWING CONDITIONS.
- A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 DAYS AFTER AFTER INITIAL START-UP.
- B. THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH NOX EMISSION LIMIT SPECIFIED IN CONDITION NO. 6. THE SOURCE TEST SHALL ALSO MEASURE THE CO CONCENTRATION LIMIT.
- C. THE SOURCE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH SCAQMD METHOD 100.1.
- D. THE TESTS SHALL BE PERFORMED WHEN THE BOILER IS OPERATING AT MAXIMUM, AVERAGE, AND MINIMUM FIRING RATES AND ALSO WHILE OPERATING UNDER NORMAL CONDITIONS. THE SAMPLING DURATIONS SHALL BE AT LEAST 15 CONSECUTIVE MINUTES FOR EACH MAXIMUM, AVERAGE, MINIMUM, AND NORMAL LOADS.
- 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: MARCEL SAULIS, P.O. BOX 4941, DIAMOND BAR, CA 91765). THE RESULTS SHALL BE SUBMITTED WITHIN 30 DAYS AFTER THE SOURCE TEST IS COMPLETED. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO EMISSION RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE BOILER, MEASURED ON A DRY BASIS AT 3% OXYGEN. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:
- I. THE EXHAUST FLOW RATES IN ACTURAL CUBIC FEET PER MINUTE (ACFM).
II. THE FIRING RATES IN BTU PER HOUR.
III. THE OXYGEN CONTENT OF THE EXHAUST GASES IN PERCENT.
IV. THE FUEL FLOW RATE.
- F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANTS TO BE MEASURED, AND IN

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.

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

Periodic Monitoring:

19. FOR THE GAS TURBINE, THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS 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 PURPOSES; 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 RECORDED BY A CERTIFIED SMOKE READER. [RULE 3004 (a)(4)]
20. 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 1134 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

[RULE 3004 (a)(4)]

21. 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 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 CONDITION NO. 9 CO 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)]

22. FOR THE WASTE HEAT RECOVERY UNIT, THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE 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 RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

23. THE OPERATOR SHALL CONDUCT AN ANNUAL TUNE-UP IN ACCORDANCE WITH THE TUNE-UP PROCEDURE OF RULE 1146 WHENEVER THE FUEL OIL CONSUMPTION OF THE BOILER EXCEEDS 1 MILLION GALLONS OR THE BOILER IS FIRED ON FUEL OIL FOR MORE THAN 336 HOURS IN ANY ONE YEAR. THE OPERATOR SHALL KEEP RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

RECORDS: (A) DATE OF EACH TUNE-UP, (B) THE COMPANY PERFORMING THE TUNE-UP, (C) AND THE TUNE-UP RESULTS.

[RULE 3004 (a)(4)]

24. 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 DOES 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.

[RULE 3004 (a)(4)]

25. FOR THE AUXILIARY BURNER ONLY, THE OPERATOR OR CONTRACTOR IN-CHARGE OF EQUIPMENT OPERATION SHALL PERFORM THE FOLLOWING PROCEDURES:

PERIODIC TESTING OF NOX AND CO EMISSIONS USING A PORTABLE ANALYZER TAKEN IN ACCORDANCE WITH THE "PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN FROM UNITS SUBJECT TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULES 1146 AND 1146.1". EMISSION READINGS SHALL BE TAKEN AT THE EXHAUST OUTLET EVERY MINUTE FOR 15 MINUTES. THE TESTS SHALL BE CONDUCTED WHEN THE UNIT IS OPERATING AT NORMAL CONDITION AND SHALL BE DONE AT LEAST MONTHLY OR EVERY 750 UNIT OPERATING HOURS WHICHEVER OCCURS LATER. THE TESTS SHALL BE CONDUCTED BY THE OPERATOR WHO HAS COMPLETED AN AQMD TRAINING PROGRAM AND RECEIVED A CERTIFICATION ISSUED BY THE DISTRICT

IF THE BOILER IS IN COMPLIANCE FOR THREE CONSECUTIVE REQUIRED EMISSION CHECKS, WITHOUT ANY ADJUSTMENTS TO THE OXYGEN SENSOR SET POINTS, THEN THE UNIT MAY BE CHECKED QUARTERLY OR EVERY 2000 UNIT OPERATING HOURS WHICHEVER OCCURS LATER, UNTIL THERE IS AN EMISSION CHECK INDICATING NONCOMPLIANCE.

MONITORING RECORDS SHALL BE MAINTAINED FOR A ROLLING TWELVE MONTH PERIOD OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 3004 (a)(4), RULE 1146]

26. FOR THE AUXILIARLY BURNER ONLY, THE OPERATOR SHALL CONDUCT SOURCE TESTING FOR NOX, CO AND O2 (CONCENTRATION IN PPM BY VOLUME, CORRECTED TO 3% O2 ON A DRY BASIS) AT LEAST ONCE EVERY THREE YEARS. ALL EMISSION DETERMINATIONS SHALL BE MADE IN THE AS-FOUND OPERATING CONDITION. TESTING SHALL BE CONDUCTED AT LEAST 250 OPERATING HOURS, OR AT LEAST 30 DAYS SUBSEQUENT TO THE TUNING OR SERVICING OF ANY UNIT, UNLESS IT IS AN UNSCHEDULED REPAIR.

[RULE 3004 (a)(4), RULE 1146]

27. THE COMBUSTION BURNER SHALL BE INSPECTED AND MAINTAINED PER THE MANUFACTURER'S SPECIFICATIONS. RECORDS SHALL BE KEPT ON FILE FOR INSPECTIONS AND MAINTENANCE FOR AT LEAST FIVE YEARS.

[RULE 3004 (a)(4), RULE 1146]

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

Emissions And Requirements:

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

CO: 2000 PPMV, RULE 407
SOX: 500 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409
CO: 400 PPMV, RULE 1146
NOX: 9 PPMV, RULE 1146
NOX: 25 PPMV, RULE 1134
NOX: 150 PPMV, 40 CFR 60 SUBPART GG
SOX: 150 PPMV, 40 CFR 60 SUBPART GG

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

PERMIT TO CONSTRUCT

**Permit No. TBD
A/N 512458**

Equipment Description:

COGENERATION SYSTEM NO. 2 (TRAIN B) CONSISTING OF:

1. GAS TURBINE NO. 1, DETROIT DIESEL, ALLISON, MODEL NO. 501-KB, SERIAL NO. ASPI015, 39,400,000 BTU PER HOUR, GAS OR OIL FIRED, WITH WATER INJECTION SYSTEM, DRIVING A 2.89 MW ELECTRICAL GENERATOR.
2. WASTE HEAT RECOVERY UNIT, ECO, MODEL NO. 6328-2, WITH AN AUXILIARY BURNER, NORTH AMERICAN, MODEL NO. 6213-20-46, 19,500,000 BTU/HR, NATURAL GAS OR OIL FIRED,
3. FLUE GAS COMPRESSOR NO. 2, 100 H.P.
4. GAS TURBINE STARTING ENGINE NO. 2, DETROIT DIESEL, MODEL NO 4-71, 140 H.P.

WITH THE REPLACEMENT OF THE WASTE HEAT RECOVERY UNIT'S AUXILIARY BURNER WITH A:

1. AN AUXILIARY BURNER, AMERICAN COMBUSTION TECHNOLOGIES, MODEL NO. ACT07G-SLE, 19,500,000 BTU/HR, NATURAL GAS FIRED.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL ONLY BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. EMISSIONS OF NITROGEN OXIDES FROM THE COGENERATION GAS TURBINE SHALL NOT EXCEED 25 PPMV, CORRECTED TO 15% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1134]
5. EMISSIONS OF NITROGEN OXIDES FROM THE SIMULTANEOUS OPERATION OF THE COGENERATION GAS TURBINE AND AUXILIARY BURNER SHALL NOT EXCEED 25 PPMV, CORRECTED TO 15% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1134]

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

6. EMISSIONS OF NITROGEN OXIDES FROM THE OPERATION OF THE AUXILIARY BURNER (WHEN THE GAS TURBINE IS SHUTDOWN) SHALL NOT EXCEED 9 PPMV, CORRECTED TO 3% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1146]
7. THE COGENERATION GAS TURBINE SHALL NOT BE OPERATED ABOVE A MAXIMUM POWER OUTPUT OF 2.899 MW.
[RULE 1134]
8. THIS EQUIPMENT SHALL NOT BE FIRED ON FUEL OIL EXCEPT DURING A STATE OF EMERGENCY IN ACCORDANCE WITH PROVISIONS OF RULE 118.
[RULE 118]
9. EMISSIONS FROM THIS COGENERATION SYSTEM SHALL NOT EXCEED:

POLLUTANT	CO	NOX	PM10	ROG	SOX
LB/DAY	281	131	15	115	1

[RULE 1134]
10. WATER INJECTION SHALL BE USED DURING OPERATION OF THE GAS TURBINE AT ALL TIMES EXCEPT DURING START-UPS. THE MINIMUM WATER-TO-FUEL INJECTION MASS RATIO SHALL BE MAINTAINED AT 0.9 TO 1.0.
[RULE 1134]
11. THE CONTINUOUS MONITORING SYSTEM SHALL MEASURE AND RECORD THE WATER-TO-FUEL INJECTION MASS RATIO AND SHALL BE PROPERLY OPERATED AND MAINTAINED IN CALIBRATION WITH AN ACCURACY TO WITHIN PLUS OR MINUS 5.0 PERCENT.
[RULE 1134]
12. DAILY RECORDS FOR THE TOTAL FUEL USAGE BY TYPE, WATER-TO-FUEL INJECTION MASS RATIO, ELECTRICAL OUTPUT, USEFUL THERMAL OUTPUT, AND OPERATING HOURS OF THE COGENERATION, AND OPERATING DURING RULE 118 EMERGENCIES SHALL BE KEPT AND MAINTAINED ON FILE FOR AT LEAST TWO YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1134, RULE 118]
13. THIS EQUIPMENT IS SUBJECT TO THE STANDARDS OF PERFORMANCE FOR STATIONARY GAS TURBINES UNDER EPA CFR 40, PART 60, SUBPARTS A AND GG, AND SHALL COMPLY WITH THE NOTIFICATION, RECORD KEEPING AND REPORTING REQUIREMENTS OF SUBPART GG FOR THIS EQUIPMENT PURSUANT TO SECTION 60.7.
[RULE 1134, CFR 40, PART 60, SUBPART GG]
14. THE COGENERATION SYSTEM SHALL COMPLY WITH THE APPLICABLE REQUIREMENT OF RULE 1134.
[RULE 1134]
15. THE AUXILIARY BURNER (WHEN THE GAS TURBINE IS SHUTDOWN) SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF RULE 1146.
[RULE 1146]

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

16. FOR THE AUXILIARY BURNER ONLY, THE BURNER SHALL NOT FIRE ON LESS THAN 3714 SCF/HR OF NATURAL GAS DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.
[RULE 1146]
17. FOR THE AUXILIARY BURNER, 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]
18. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS ON THE EQUIPMENT UNDER THE FOLLOWING CONDITIONS.
- A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 DAYS AFTER AFTER INITIAL START-UP.
- B. THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH NOX EMISSION LIMIT SPECIFIED IN CONDITION NO. 6. THE SOURCE TEST SHALL ALSO MEASURE THE CO CONCENTRATION LIMIT.
- C. THE SOURCE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH SCAQMD METHOD 100.1.
- D. THE TESTS SHALL BE PERFORMED WHEN THE BOILER IS OPERATING AT MAXIMUM, AVERAGE, AND MINIMUM FIRING RATES AND ALSO WHILE OPERATING UNDER NORMAL CONDITIONS. THE SAMPLING DURATIONS SHALL BE AT LEAST 15 CONSECUTIVE MINUTES FOR EACH MAXIMUM, AVERAGE, MINIMUM, AND NORMAL LOADS.
- 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: MARCEL SAULIS, P.O. BOX 4941, DIAMOND BAR, CA 91765). THE RESULTS SHALL BE SUBMITTED WITHIN 30 DAYS AFTER THE SOURCE TEST IS COMPLETED. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO EMISSION RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE BOILER, MEASURED ON A DRY BASIS AT 3% OXYGEN. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:
- I. THE EXHAUST FLOW RATES IN ACTURAL CUBIC FEET PER MINUTE (ACFM).
II. THE FIRING RATES IN BTU PER HOUR.
III. THE OXYGEN CONTENT OF THE EXHAUST GASES IN PERCENT.
IV. THE FUEL FLOW RATE.
- F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANTS TO BE MEASURED, AND IN

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.

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

Periodic Monitoring:

19. FOR THE GAS TURBINE, THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS 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 PURPOSES; 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 RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

20. 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 1134 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

[RULE 3004 (a)(4)]

21. 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 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 CONDITION NO. 9 CO 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)]

22. FOR THE WASTE HEAT RECOVERY UNIT, THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE 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 RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

23. THE OPERATOR SHALL CONDUCT AN ANNUAL TUNE-UP IN ACCORDANCE WITH THE TUNE-UP PROCEDURE OF RULE 1146 WHENEVER THE FUEL OIL CONSUMPTION OF THE BOILER EXCEEDS 1 MILLION GALLONS OR THE BOILER IS FIRED ON FUEL OIL FOR MORE THAN 336 HOURS IN ANY ONE YEAR. THE OPERATOR SHALL KEEP RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

RECORDS: (A) DATE OF EACH TUNE-UP, (B) THE COMPANY PERFORMING THE TUNE-UP, (C) AND THE TUNE-UP RESULTS.

[RULE 3004 (a)(4)]

24. 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 DOES 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.

[RULE 3004 (a)(4)]

25. FOR THE AUXILIARY BURNER ONLY, THE OPERATOR OR CONTRACTOR IN-CHARGE OF EQUIPMENT OPERATION SHALL PERFORM THE FOLLOWING PROCEDURES:

PERIODIC TESTING OF NOX AND CO EMISSIONS USING A PORTABLE ANALYZER TAKEN IN ACCORDANCE WITH THE "PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN FROM UNITS SUBJECT TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULES 1146 AND 1146.1". EMISSION READINGS SHALL BE TAKEN AT THE EXHAUST OUTLET EVERY MINUTE FOR 15 MINUTES. THE TESTS SHALL BE CONDUCTED WHEN THE UNIT IS OPERATING AT NORMAL CONDITION AND SHALL BE DONE AT LEAST MONTHLY OR EVERY 750 UNIT OPERATING HOURS WHICHEVER OCCURS LATER. THE TESTS SHALL BE CONDUCTED BY THE OPERATOR WHO HAS COMPLETED AN AQMD TRAINING PROGRAM AND RECEIVED A CERTIFICATION ISSUED BY THE DISTRICT

IF THE BOILER IS IN COMPLIANCE FOR THREE CONSECUTIVE REQUIRED EMISSION CHECKS, WITHOUT ANY ADJUSTMENTS TO THE OXYGEN SENSOR SET POINTS, THEN THE UNIT MAY BE CHECKED QUARTERLY OR EVERY 2000 UNIT OPERATING HOURS WHICHEVER OCCURS LATER, UNTIL THERE IS AN EMISSION CHECK INDICATING NONCOMPLIANCE.

MONITORING RECORDS SHALL BE MAINTAINED FOR A ROLLING TWELVE MONTH PERIOD OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 3004 (a)(4), RULE 1146]

26. FOR THE AUXILIARY BURNER ONLY, THE OPERATOR SHALL CONDUCT SOURCE TESTING FOR NOX, CO AND O2 (CONCENTRATION IN PPM BY VOLUME, CORRECTED TO 3% O2 ON A DRY BASIS) AT LEAST ONCE EVERY THREE YEARS. ALL EMISSION DETERMINATIONS SHALL BE MADE IN THE AS-FOUND OPERATING CONDITION. TESTING SHALL BE CONDUCTED AT LEAST 250 OPERATING HOURS, OR AT LEAST 30 DAYS SUBSEQUENT TO THE TUNING OR SERVICING OF ANY UNIT, UNLESS IT IS AN UNSCHEDULED REPAIR.

[RULE 3004 (a)(4), RULE 1146]

27. THE COMBUSTION BURNER SHALL BE INSPECTED AND MAINTAINED PER THE MANUFACTURER'S SPECIFICATIONS. RECORDS SHALL BE KEPT ON FILE FOR INSPECTIONS AND MAINTENANCE FOR AT LEAST FIVE YEARS.

[RULE 3004 (a)(4), RULE 1146]

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

Emissions And Requirements:

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

CO: 2000 PPMV, RULE 407
SOX: 500 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409
CO: 400 PPMV, RULE 1146
NOX: 9 PPMV, RULE 1146
NOX: 25 PPMV, RULE 1134
NOX: 150 PPMV, 40 CFR 60 SUBPART GG
SOX: 150 PPMV, 40 CFR 60 SUBPART GG

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

RULE 219 EQUIPMENT

Equipment Description:

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

Periodic Monitoring:

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

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

FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN (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:

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

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

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: 40 CFR 82 SUBPART F

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

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 CO., OLIVE VIEW MEDICAL CENTER**

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 CO., OLIVE VIEW MEDICAL CENTER**

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, REFRIGERANT RECOVERY AND/OR RECYCLING UNITS.

Emissions and Requirements:

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

REFRIGERANT: RULE 1415
REFRIGERANT: 40 CFR 82 SUBPART F

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, BOILERS, >1 MMBTU/HR <2 MMBTU/HR.

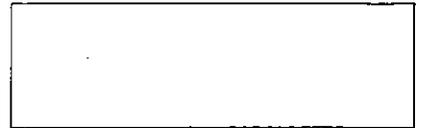
Emissions and Requirements:

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

PM: 0.1 gr/scf, RULE 409
NOX: 30 PPMV, RULE 1146.2
CO: 400 PPMV, RULE 1146.2
CO: 2000 PPMV, RULE 407



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765



**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. TBD
A/N 512457**

Equipment Description:

COGENERATION SYSTEM NO. 1 (TRAIN A) CONSISTING OF:

1. GAS TURBINE NO. 1, DETROIT DIESEL, ALLISON, MODEL NO. 501-KB, SERIAL NO. ASPI014, 39,400,000 BTU PER HOUR, GAS OR OIL FIRED, WITH WATER INJECTION SYSTEM, DRIVING A 2.89 MW ELECTRICAL GENERATOR.
2. WASTE HEAT RECOVERY UNIT, ECO, MODEL NO. 6328-2, AMERICAN COMBUSTION TECHNOLOGIES, MODEL NO. ACT07G-SLE, 19,500,000 BTU/HR, NATURAL GAS FIRED.
3. FLUE GAS COMPRESSOR NO. 1, 100 H.P.
4. GAS TURBINE STARTING ENGINE NO. 1, DETROIT DIESEL, MODEL NO 4-71, 140 H.P.

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 ONLY BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. EMISSIONS OF NITROGEN OXIDES FROM THE COGENERATION GAS TURBINE SHALL NOT EXCEED 25 PPMV, CORRECTED TO 15% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1134]
5. EMISSIONS OF NITROGEN OXIDES FROM THE SIMULTANEOUS OPERATION OF THE COGENERATION GAS TURBINE AND AUXILIARY BURNER SHALL NOT EXCEED 25 PPMV, CORRECTED TO 15% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1134]
6. EMISSIONS OF NITROGEN OXIDES FROM THE OPERATION OF THE AUXILIARY BURNER (WHEN THE GAS TURBINE IS SHUTDOWN) SHALL NOT EXCEED 9 PPMV, CORRECTED TO 3% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1146]

FACILITY PERMIT TO OPERATE LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER

7. THE COGENERATION GAS TURBINE SHALL NOT BE OPERATED ABOVE A MAXIMUM POWER OUTPUT OF 2.899 MW.
[RULE 1134]
8. THIS EQUIPMENT SHALL NOT BE FIRED ON FUEL OIL EXCEPT DURING A STATE OF EMERGENCY IN ACCORDANCE WITH PROVISIONS OF RULE 118.
[RULE 118]
9. EMISSIONS FROM THIS COGENERATION SYSTEM SHALL NOT EXCEED:
- | POLLUTANT | CO | NOX | PM10 | ROG | SOX |
|-----------|-----|-----|------|-----|-----|
| LB/DAY | 281 | 131 | 15 | 115 | 1 |
- [RULE 1134]
10. WATER INJECTION SHALL BE USED DURING OPERATION OF THE GAS TURBINE AT ALL TIMES EXCEPT DURING START-UPS. THE MINIMUM WATER-TO-FUEL INJECTION MASS RATIO SHALL BE MAINTAINED AT 0.9 TO 1.0.
[RULE 1134]
11. THE CONTINUOUS MONITORING SYSTEM SHALL MEASURE AND RECORD THE WATER-TO-FUEL INJECTION MASS RATIO AND SHALL BE PROPERLY OPERATED AND MAINTAINED IN CALIBRATION WITH AN ACCURACY TO WITHIN PLUS OR MINUS 5.0 PERCENT.
[RULE 1134]
12. DAILY RECORDS FOR THE TOTAL FUEL USAGE BY TYPE, WATER-TO-FUEL INJECTION MASS RATIO, ELECTRICAL OUTPUT, USEFUL THERMAL OUTPUT, AND OPERATING HOURS OF THE COGENERATION, AND OPERATING DURING RULE 118 EMERGENCIES SHALL BE KEPT AND MAINTAINED ON FILE FOR AT LEAST TWO YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1134, RULE 118]
13. THIS EQUIPMENT IS SUBJECT TO THE STANDARDS OF PERFORMANCE FOR STATIONARY GAS TURBINES UNDER EPA CFR 40, PART 60, SUBPARTS A AND GG, AND SHALL COMPLY WITH THE NOTIFICATION, RECORD KEEPING AND REPORTING REQUIREMENTS OF SUBPART GG FOR THIS EQUIPMENT PURSUANT TO SECTION 60.7.
[RULE 1134, CFR 40, PART 60, SUBPART GG]
14. THE COGENERATION SYSTEM SHALL COMPLY WITH THE APPLICABLE REQUIREMENT OF RULE 1134.
[RULE 1134]
15. THE AUXILIARY BURNER (WHEN THE GAS TURBINE IS SHUTDOWN) SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF RULE 1146.
[RULE 1146]
16. FOR THE AUXILIARY BURNER ONLY, THE BURNER SHALL NOT FIRE ON LESS THAN 3714 SCF/HR OF NATURAL GAS DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.
[RULE 1146]

FACILITY PERMIT TO OPERATE LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER

17. FOR THE AUXILIARY BURNER, 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]

Periodic Monitoring:

18. FOR THE GAS TURBINE, THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS 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 PURPOSES; 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 RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]
19. 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 1134 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH

FACILITY PERMIT TO OPERATE LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER

ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a)(4)]

20. 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 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 CONDITION NO. 9 CO 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)]

21. FOR THE WASTE HEAT RECOVERY UNIT, THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE 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 RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

22. THE OPERATOR SHALL CONDUCT AN ANNUAL TUNE-UP IN ACCORDANCE WITH THE TUNE-UP PROCEDURE OF RULE 1146 WHENEVER THE FUEL OIL CONSUMPTION OF THE BOILER EXCEEDS 1 MILLION GALLONS OR THE BOILER IS FIRED ON FUEL OIL FOR MORE THAN 336 HOURS IN ANY ONE YEAR. THE OPERATOR SHALL KEEP RECORDS IN ACCORDANCE WITH THE

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS: (A) DATE OF EACH TUNE-UP, (B) THE COMPANY PERFORMING THE TUNE-UP, (C) AND THE TUNE-UP RESULTS.

[RULE 3004 (a)(4)]

23. 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 DOES 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.

[RULE 3004 (a)(4)]

24. FOR THE AUXILIARY BURNER ONLY, THE OPERATOR OR CONTRACTOR IN-CHARGE OF EQUIPMENT OPERATION SHALL PERFORM THE FOLLOWING PROCEDURES:

PERIODIC TESTING OF NOX AND CO EMISSIONS USING A PORTABLE ANALYZER TAKEN IN ACCORDANCE WITH THE "PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN FROM UNITS SUBJECT TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULES 1146 AND 1146.1". EMISSION READINGS SHALL BE TAKEN AT THE EXHAUST OUTLET EVERY MINUTE FOR 15 MINUTES. THE TESTS SHALL BE CONDUCTED WHEN THE UNIT IS OPERATING AT NORMAL CONDITION AND SHALL BE DONE AT LEAST MONTHLY OR EVERY 750 UNIT OPERATING HOURS WHICHEVER OCCURS LATER. THE TESTS SHALL BE CONDUCTED BY THE OPERATOR WHO HAS COMPLETED AN AQMD TRAINING PROGRAM AND RECEIVED A CERTIFICATION ISSUED BY THE DISTRICT

IF THE BOILER IS IN COMPLIANCE FOR THREE CONSECUTIVE REQUIRED EMISSION CHECKS, WITHOUT ANY ADJUSTMENTS TO THE OXYGEN SENSOR SET POINTS, THEN THE UNIT MAY BE CHECKED QUARTERLY OR EVERY 2000 UNIT OPERATING HOURS WHICHEVER OCCURS LATER, UNTIL THERE IS AN EMISSION CHECK INDICATING NONCOMPLIANCE.

MONITORING RECORDS SHALL BE MAINTAINED FOR A ROLLING TWELVE MONTH PERIOD OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 3004 (a)(4), RULE 1146]

25. FOR THE AUXILIARY BURNER ONLY, THE OPERATOR SHALL CONDUCT SOURCE TESTING FOR NOX, CO AND O₂ (CONCENTRATION IN PPM BY VOLUME, CORRECTED TO 3% O₂ ON A DRY BASIS) AT LEAST ONCE EVERY THREE YEARS. ALL EMISSION DETERMINATIONS SHALL BE MADE IN THE AS-FOUND OPERATING CONDITION. TESTING SHALL BE CONDUCTED AT LEAST 250 OPERATING HOURS, OR AT LEAST 30 DAYS SUBSEQUENT TO THE TUNING OR SERVICING OF ANY UNIT, UNLESS IT IS AN UNSCHEDULED REPAIR.

[RULE 3004 (a)(4), RULE 1146]

26. THE COMBUSTION BURNER SHALL BE INSPECTED AND MAINTAINED PER THE MANUFACTURER'S SPECIFICATIONS. RECORDS SHALL BE KEPT ON FILE FOR INSPECTIONS AND MAINTENANCE FOR AT LEAST FIVE YEARS.

[RULE 3004 (a)(4), RULE 1146]

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

Emissions And Requirements:

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

CO: 2000 PPMV, RULE 407
SOX: 500 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409
CO: 400 PPMV, RULE 1146
NOX: 9 PPMV, RULE 1146
NOX: 25 PPMV, RULE 1134
NOX: 150 PPMV, 40 CFR 60 SUBPART GG
SOX: 150 PPMV, 40 CFR 60 SUBPART GG

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. TBD
A/N 512458**

Equipment Description:

COGENERATION SYSTEM NO. 2 (TRAIN B) CONSISTING OF:

1. GAS TURBINE NO. 1, DETROIT DIESEL, ALLISON, MODEL NO. 501-KB, SERIAL NO. ASPI015, 39,400,000 BTU PER HOUR, GAS OR OIL FIRED, WITH WATER INJECTION SYSTEM, DRIVING A 2.89 MW ELECTRICAL GENERATOR.
2. WASTE HEAT RECOVERY UNIT, ECO, MODEL NO. 6328-2, WITH AN AUXILIARY BURNER, AMERICAN COMBUSTION TECHNOLOGIES, MODEL NO. ACT07G-SLE, 19,500,000 BTU/HR, NATURAL GAS FIRED.
3. FLUE GAS COMPRESSOR NO. 2, 100 H.P.
4. GAS TURBINE STARTING ENGINE NO. 2, DETROIT DIESEL, MODEL NO 4-71, 140 H.P.

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 ONLY BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. EMISSIONS OF NITROGEN OXIDES FROM THE COGENERATION GAS TURBINE SHALL NOT EXCEED 25 PPMV, CORRECTED TO 15% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1134]
5. EMISSIONS OF NITROGEN OXIDES FROM THE SIMULTANEOUS OPERATION OF THE COGENERATION GAS TURBINE AND AUXILIARY BURNER SHALL NOT EXCEED 25 PPMV, CORRECTED TO 15% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1134]
6. EMISSIONS OF NITROGEN OXIDES FROM THE OPERATION OF THE AUXILIARY BURNER (WHEN THE GAS TURBINE IS SHUTDOWN) SHALL NOT EXCEED 9 PPMV, CORRECTED TO 3% OXYGEN, MEASURED ON A DRY BASIS.
[RULE 1146]

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

7. THE COGENERATION GAS TURBINE SHALL NOT BE OPERATED ABOVE A MAXIMUM POWER OUTPUT OF 2.899 MW.
[RULE 1134]
8. THIS EQUIPMENT SHALL NOT BE FIRED ON FUEL OIL EXCEPT DURING A STATE OF EMERGENCY IN ACCORDANCE WITH PROVISIONS OF RULE 118.
[RULE 118]
9. EMISSIONS FROM THIS COGENERATION SYSTEM SHALL NOT EXCEED:
- | POLLUTANT | CO | NOX | PM10 | ROG | SOX |
|-----------|-----|-----|------|-----|-----|
| LB/DAY | 281 | 131 | 15 | 115 | 1 |
- [RULE 1134]
10. WATER INJECTION SHALL BE USED DURING OPERATION OF THE GAS TURBINE AT ALL TIMES EXCEPT DURING START-UPS. THE MINIMUM WATER-TO-FUEL INJECTION MASS RATIO SHALL BE MAINTAINED AT 0.9 TO 1.0.
[RULE 1134]
11. THE CONTINUOUS MONITORING SYSTEM SHALL MEASURE AND RECORD THE WATER-TO-FUEL INJECTION MASS RATIO AND SHALL BE PROPERLY OPERATED AND MAINTAINED IN CALIBRATION WITH AN ACCURACY TO WITHIN PLUS OR MINUS 5.0 PERCENT.
[RULE 1134]
12. DAILY RECORDS FOR THE TOTAL FUEL USAGE BY TYPE, WATER-TO-FUEL INJECTION MASS RATIO, ELECTRICAL OUTPUT, USEFUL THERMAL OUTPUT, AND OPERATING HOURS OF THE COGENERATION, AND OPERATING DURING RULE 118 EMERGENCIES SHALL BE KEPT AND MAINTAINED ON FILE FOR AT LEAST TWO YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1134, RULE 118]
13. THIS EQUIPMENT IS SUBJECT TO THE STANDARDS OF PERFORMANCE FOR STATIONARY GAS TURBINES UNDER EPA CFR 40, PART 60, SUBPARTS A AND GG, AND SHALL COMPLY WITH THE NOTIFICATION, RECORD KEEPING AND REPORTING REQUIREMENTS OF SUBPART GG FOR THIS EQUIPMENT PURSUANT TO SECTION 60.7.
[RULE 1134, CFR 40, PART 60, SUBPART GG]
14. THE COGENERATION SYSTEM SHALL COMPLY WITH THE APPLICABLE REQUIREMENT OF RULE 1134.
[RULE 1134]
15. THE AUXILIARY BURNER (WHEN THE GAS TURBINE IS SHUTDOWN) SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF RULE 1146.
[RULE 1146]
16. FOR THE AUXILIARY BURNER ONLY, THE BURNER SHALL NOT FIRE ON LESS THAN 3714 SCF/HR OF NATURAL GAS DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.
[RULE 1146]

FACILITY PERMIT TO OPERATE LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER

17. FOR THE AUXILIARY BURNER, 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]

Periodic Monitoring:

18. FOR THE GAS TURBINE, THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS 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 PURPOSES; 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 RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]
19. 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 1134 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH

**FACILITY PERMIT TO OPERATE
LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER**

ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a)(4)]

20. 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 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 CONDITION NO. 9 CO 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)]
21. FOR THE WASTE HEAT RECOVERY UNIT, THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE 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 RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

22. THE OPERATOR SHALL CONDUCT AN ANNUAL TUNE-UP IN ACCORDANCE WITH THE TUNE-UP PROCEDURE OF RULE 1146 WHENEVER THE FUEL OIL CONSUMPTION OF THE BOILER EXCEEDS 1 MILLION GALLONS OR THE BOILER IS FIRED ON FUEL OIL FOR MORE THAN 336 HOURS IN ANY ONE YEAR. THE OPERATOR SHALL KEEP RECORDS IN ACCORDANCE WITH THE

FACILITY PERMIT TO OPERATE LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER

RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS: (A) DATE OF EACH TUNE-UP, (B) THE COMPANY PERFORMING THE TUNE-UP, (C) AND THE TUNE-UP RESULTS.

[RULE 3004 (a)(4)]

23. 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 DOES 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.
[RULE 3004 (a)(4)]

24. FOR THE AUXILIARY BURNER ONLY, THE OPERATOR OR CONTRACTOR IN-CHARGE OF EQUIPMENT OPERATION SHALL PERFORM THE FOLLOWING PROCEDURES:

PERIODIC TESTING OF NOX AND CO EMISSIONS USING A PORTABLE ANALYZER TAKEN IN ACCORDANCE WITH THE "PROTOCOL FOR THE PERIODIC MONITORING OF NITROGEN OXIDES, CARBON MONOXIDE, AND OXYGEN FROM UNITS SUBJECT TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULES 1146 AND 1146.1". EMISSION READINGS SHALL BE TAKEN AT THE EXHAUST OUTLET EVERY MINUTE FOR 15 MINUTES. THE TESTS SHALL BE CONDUCTED WHEN THE UNIT IS OPERATING AT NORMAL CONDITION AND SHALL BE DONE AT LEAST MONTHLY OR EVERY 750 UNIT OPERATING HOURS WHICHEVER OCCURS LATER. THE TESTS SHALL BE CONDUCTED BY THE OPERATOR WHO HAS COMPLETED AN AQMD TRAINING PROGRAM AND RECEIVED A CERTIFICATION ISSUED BY THE DISTRICT

IF THE BOILER IS IN COMPLIANCE FOR THREE CONSECUTIVE REQUIRED EMISSION CHECKS, WITHOUT ANY ADJUSTMENTS TO THE OXYGEN SENSOR SET POINTS, THEN THE UNIT MAY BE CHECKED QUARTERLY OR EVERY 2000 UNIT OPERATING HOURS WHICHEVER OCCURS LATER, UNTIL THERE IS AN EMISSION CHECK INDICATING NONCOMPLIANCE.

MONITORING RECORDS SHALL BE MAINTAINED FOR A ROLLING TWELVE MONTH PERIOD OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004 (a)(4), RULE 1146]

25. FOR THE AUXILIARLY BURNER ONLY, THE OPERATOR SHALL CONDUCT SOURCE TESTING FOR NOX, CO AND O2 (CONCENTRATION IN PPM BY VOLUME, CORRECTED TO 3% O2 ON A DRY BASIS) AT LEAST ONCE EVERY THREE YEARS. ALL EMISSION DETERMINATIONS SHALL BE MADE IN THE AS-FOUND OPERATING CONDITION. TESTING SHALL BE CONDUCTED AT LEAST 250 OPERATING HOURS, OR AT LEAST 30 DAYS SUBSEQUENT TO THE TUNING OR SERVICING OF ANY UNIT, UNLESS IT IS AN UNSCHEDULED REPAIR.
[RULE 3004 (a)(4), RULE 1146]
26. THE COMBUSTION BURNER SHALL BE INSPECTED AND MAINTAINED PER THE MANUFACTURER'S SPECIFICATIONS. RECORDS SHALL BE KEPT ON FILE FOR INSPECTIONS AND MAINTENANCE FOR AT LEAST FIVE YEARS.
[RULE 3004 (a)(4), RULE 1146]

FACILITY PERMIT TO OPERATE LOS ANGELES CO., OLIVE VIEW MEDICAL CENTER

Emissions And Requirements:

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

- CO: 2000 PPMV, RULE 407
- SOX: 500 PPMV, RULE 407
- PM: 0.1 GR/SCF, RULE 409
- CO: 400 PPMV, RULE 1146
- NOX: 9 PPMV, RULE 1146
- NOX: 25 PPMV, RULE 1134
- NOX: 150 PPMV, 40 CFR 60 SUBPART GG
- SOX: 150 PPMV, 40 CFR 60 SUBPART GG