



South Coast Air Quality Management District

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

June 29, 2012

Mr. Gerardo Rios
Chief – Permits Office
U. S. EPA, Region IX
75 Hawthorne Street, Air 3
San Francisco, CA 94105

Subject: LAC+USC Medical Center (ID 20197) – Title V Permit Revision

Dear Mr. Rios:

LAC+USC Medical Center has proposed to revise their Title V permit under application no. 530502 by the construction and operation of two natural gas fired 49.5 MMBTU/hr boilers, the associated air pollution control equipment, and two ammonia storage tanks. This is a medical facility located at 1200 North State Street, Los Angeles, CA 90033. The proposed permit revision is considered as a de minimis permit revision to their Title V permit. Attached for your review is the evaluation and Section D of the Facility Permit for the proposed revision. With the receipt of the proposed Title V permit revision today, we will note that the EPA 45-day review period begins on June 29, 2012.

If you have any questions or need additional information regarding the proposed permit revision, please call Mr. Kenneth L. Coats (909) 396-2527.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Brian L. Yeh', is written over a horizontal line.

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

cc: Mr. Brian Pettit, LAC+USC Medical Center
Mr. John Furlong, SCEC

BLY:AYL:JTY:klc
Attachments



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

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
176118	M97782	STORAGE TANK GASOLINE
199974	F5725	I C E (50-500 HP) EM ELEC GEN-DIESEL
224033	D93524	BOILER (>50 MMBTU/HR) COMB GAS-DISTILL
226649	D25143	I C E (50-500 HP) EM ELEC GEN-DIESEL
243845	D70910	BOILER (<5 MMBTU/HR) NAT GAS ONLY
243846	D70911	BOILER (<5 MMBTU/HR) NAT GAS ONLY
243993	D43784	I C E (50-500 HP) N-EM STAT GASOLINE
243994	D41377	I C E (50-500 HP) N-EM PORT N-RENT GASOL
244309	D41378	I C E (50-500 HP) EM ELEC GEN-DIESEL
244310	D38299	I C E (50-500 HP) EM ELEC GEN-DIESEL
244311	D41379	I C E (50-500 HP) EM ELEC GEN-DIESEL
244312	D41380	I C E (50-500 HP) EM ELEC GEN-DIESEL
244315	D41383	I C E (50-500 HP) EM ELEC GEN-DIESEL
244316	D41384	I C E (50-500 HP) EM ELEC GEN-DIESEL
244317	D41145	I C E (50-500 HP) EM ELEC GEN-NAT GAS
244318	D41385	I C E (50-500 HP) N-EM STAT DIESEL
244319	D41386	I C E (50-500 HP) EM ELEC GEN-DIESEL
244320	D41387	I C E (50-500 HP) EM ELEC GEN-DIESEL
244321	D39314	I C E (>500 HP) EM ELEC GEN DIESEL
249479	D39159	I C E (50-500 HP) EM ELEC GEN-DIESEL
255744	D47299	I C E (50-500 HP) EM ELEC GEN-DIESEL
271884	D61857	I C E (50-500 HP) EM ELEC GEN-DIESEL
303040	D92777	ETHYLENE OXIDE STERILIZATION HOSPITAL
303041	D92778	ETHYLENE OXIDE STERILIZATION HOSPITAL
303042	D92779	ETHYLENE OXIDE STERILIZATION CTL (HOSP)
303043	D92780	ETHYLENE OXIDE STERILIZATION CTL (HOSP)
312824	D97367	I C E (>500 HP) EM ELEC GEN DIESEL
321229	F3444	I C E (>500 HP) EM ELEC GEN DIESEL
G00291	42664	SPRAY BOOTH PAINT AND SOLVENT
G03352	M22610	I C E (>500 HP) EM ELEC GEN DIESEL
G03353	M22611	I C E (>500 HP) EM ELEC GEN DIESEL
530498	Permit to Construct	Boiler No. 1, 49.5 MMBTU/hr
530499	Permit to Construct	Boiler No. 2, 49.5 MMBTU/hr
530500	Permit to Construct	SCR No. 1
530501	Permit to Construct	SCR No. 2



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536258	Permit to Construct	Urea Storage Tank No. 1
536261	Permit to Construct	Urea Storage Tank No. 2

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

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

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



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PERMIT TO OPERATE

Permit No. M97782
A/N 176118

Equipment Description:

FUEL STORAGE AND DISPENSING FACILITY CONSISTING OF:

1. ONE UNDERGROUND GASOLINE STORAGE TANK, 3000 GALLON CAPACITY, METHANOL COMPATIBLE.
2. TWO GASOLINE DISPENSING NOZZLES VENTED TO VAPOR RECOVERY SYSTEM, BALANCE RETRACTOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT WAS ISSUED, UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. EXCEPT FOR DIESEL TRANSFERS, PHASE I VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO STORAGE TANKS.
[RULE 461]
4. EXCEPT FOR DIESEL TRANSFERS, PHASE II VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO MOTOR VEHICLES, AS DEFINED IN RULE 461.
[RULE 461]
5. ALL PHASE I AND PHASE II VAPOR RECOVERY EQUIPMENT AT THIS FACILITY SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEET ALL CALIFORNIA AIR RESOURCES BOARD CERTIFICATION REQUIREMENTS
[RULE 461]
6. PHASE II VAPOR RECOVERY SYSTEMS SHALL BE INSTALLED, OPERATED, AND MAINTAINED SUCH THAT THE MAXIMUM ALLOWABLE PRESSURE THROUGH THE SYSTEM INCLUDING NOZZLE, VAPOR HOSE, SWIVELS, AND UNDERGROUND PIPING DOES NOT EXCEED THE DYNAMIC BACK PRESSURES DESCRIBED BY THE CALIFORNIA AIR RESOURCES BOARD EXECUTIVE ORDER BY WHICH THE SYSTEM WAS CERTIFIED.



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NITROGEN FLOWRATES (CFH)	DYNAMIC BACK PRESSURE (INCHES OF WATER)
20	0.15
40	0.16
60	0.35
80	0.62
100	0.95

WITHIN THIRTY (30) DAYS AFTER THE START OF OPERATION OF THE EQUIPMENT, DYNAMIC BACK PRESSURE TESTS SHALL BE CONDUCTED TO DETERMINE THE PHASE II SYSTEM VAPOR RECOVERY BACK PRESSURES. THE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.4. RESULTS SHALL BE SUBMITTED TO THE DISTRICT, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN FORTY-EIGHT (48) HOURS OF TESTS.

THE AQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR AT TELEPHONE NUMBER (909) 396-3886 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE DYNAMIC BACK PRESSURE TEST.

[RULE 461]

- 7. WITHIN THIRTY (30) DAYS AFTER THE START OF OPERATION OF THE EQUIPMENT, A STATIC PRESSURE LEAK DECAY TEST SHALL BE CONDUCTED TO DEMONSTRATE THAT THE STORAGE TANKS, THE REMOTE AND/OR NOZZLE VAPOR RECOVERY CHECK VALVES, ASSOCIATED VAPOR RETURN PIPING AND FITTINGS ARE FREE FROM VAPOR LEAKS. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.3. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN FORTY-EIGHT (48) HOURS OF TEST.

THE AQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR AT TELEPHONE NUMBER (909) 396-3886 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE STATIC PRESSURE LEAK DECAY TEST.

[RULE 461]

- 8. IF THE CARB EXECUTIVE ORDER REQUIRES THE INSTALLATION OF A LIQUID REMOVAL DEVICE, A LIQUID REMOVAL RATE TEST SHALL BE CONDUCTED TO DEMONSTRATE THE REMOVAL OF GASOLINE FROM THE VAPOR PASSAGE OF THE COAXIAL HOSE. THE TEST SHALL BE CONDUCTED WITHIN THIRTY DAYS OF INITIAL INSTALLATION AND IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.6. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN FORTY-EIGHT (48) HOURS OF TEST.

THE SCAQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR AT TELEPHONE NUMBER (909) 396-3886 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME



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OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE LIQUID REMOVAL RATE TEST.
[RULE 461]

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

Periodic Monitoring:

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

Emissions And Requirements:

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

VOC: RULE 461
VOC: RULE 1170



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Permit No. F5725
A/N 199974

Equipment Description:

INTERNAL COMBUSTION ENGINE (MEDICAL EXAMINER), DETROIT DIESEL, MODEL NO. 6161T, DIESEL FUELED, EMERGENCY ELECTRICAL GENERATION, 6 CYLINDERS, TURBOCHARGED AND AFTERCOOLED, 213 BHP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME (IN HOURS), AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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. D93524
A/N 224033**

Equipment Description:

BOILER NO. 4, FOSTER WHEELER, MODEL AGM-252-B, WATER-TUBE TYPE, WITH A TODD VARIFLAME LOW NOX BURNER, 82,000,000 BTU PER HOUR, NATURAL GAS AND LOW NITROGEN FUEL OIL FIRED, 60 HP COMBUSTION AIR BLOWER AND A 40 HP FORCED FLUE GAS RECIRCULATION SYSTEM.

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. THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WHENEVER THE BOILER IS IN OPERATION, EXCEPT DURING ELECTRIC POWER OUTAGES. RECORDS SHALL BE KEPT INDICATING THE DATE AND DURATION OF SUCH POWER OUTAGES AND WHICH BOILER(S) IS/ARE IN OPERATION.
[RULE 1146]
4. THIS BOILER SHALL FIRE NATURAL GAS ONLY, EXCEPT DURING PERIODS OF FORCED MAJEURE NATURAL GAS CURTAILMENTS, DURING MAINTENANCE TESTING OF THE BOILER NOT TO EXCEED 30 MINUTES PER MONTH, AND DURING COMPLIANCE TESTING.
[RULE 1146]
5. FUEL OIL SUPPLIED AT THE BURNER SHALL BE NO. 2 OR LIGHTER GRADE AS DESCRIBED BY THE LATEST ASTM SPECIFICATIONS AND SHALL CONTAIN NO MORE THAN 0.05 PERCENT SULFUR BY WEIGHT.
[RULE 431.2, RULE 1146]
6. THE BOILER SHALL BE EQUIPPED WITH INSTRUMENTATION WHICH SHOWS THE BOILER FIRING RATE.
[RULE 1146]
7. THE BOILER SHALL BE EQUIPPED WITH A NON-RESETTABLE, TOTALIZING FLOW METER FOR EACH FUEL.
[RULE 1146]
8. OXIDES OF NITROGEN EMISSIONS SHALL NOT EXCEED 40 PPM DRY, AT 3 PERCENT OXYGEN.
[RULE 1146]



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9. CARBON MONOXIDE EMISSIONS SHALL NOT EXCEED 400 PPM DRY, AT 3 PERCENT OXYGEN.
[RULE 1146]
10. THE BOILER OPERATOR SHALL RECORD THE ANNUAL FUEL USE IN A MANNER APPROVED IN WRITING BY THE AQMD. ALL RECORDS SHALL BE RETAINED FOR A PERIOD OF FIVE YEARS AND BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1146]
11. IF THIS BOILER'S ANNUAL HEAT INPUT EXCEEDS 179,580,000,000 BTU'S (170,560,000) CUBIC FEET OF NATURAL GAS) IN ANY ONE CALENDAR YEAR, THE-BOILER SHALL MEET THE 30 PPM NOX LIMIT OF RULE 1146 BY MARCH 1 OF THE FOLLOWING YEAR.
[RULE 1146]

Periodic Monitoring:

12. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
13. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
14. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF DIESEL FUEL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:
 - A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT;
OR
 - B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.



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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)]

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

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

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

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

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

16. 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

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

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



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Emissions And Requirements:

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: 40 PPMV, RULE 1146



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PERMIT TO OPERATE

**Permit No. D25143
A/N 226649**

Equipment Description:

INTERNAL COMBUSTION ENGINE, GENERAL MOTORS, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 62B07RD, SERIAL NO. 6B21323, 6 CYLINDERS, TWO CYCLE, NATURALLY ASPIRATED, 291 BHP, WITH 1 EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME (IN HOURS), AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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. D70910
A/N 243845**

Equipment Description:

BOILER B-1, PARKER, WATERTUBE TYPE, 90 H.P., MODEL NO. 105-90, SERIAL NO. 19241 WITH A 3,780,000 BTU PER HOUR PARKER BURNER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL BE FIRED ONLY WITH NATURAL GAS.
[RULE 1146.1]



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**Permit No. D70911
A/N 243846**

Equipment Description:

BOILER B-2, PARKER, WATERTUBE TYPE, 90 H.P., MODEL NO. 105-90, SERIAL NO. 19242 WITH A 3,780,000 BTU PER HOUR PARKER BURNER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL BE FIRED ONLY WITH NATURAL GAS.
[RULE 1146.1]



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PERMIT TO OPERATE

**Permit No. D43784
A/N 243993**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CONTINENTAL, GASOLINE-FUELED, MODEL NO F163, SERIAL NO. 48941, 4 CYLINDERS, 4 CYCLES, NATURALLY ASPIRATED, 52 BHP, WITH 1 EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED AT A SITE WHICH IS LOCATED WITHIN 1000 FEET OF THE OUTSIDE BOUNDARIES OF A SCHOOL DUE TO THE REQUIREMENTS OF RULE 212.
[RULE 212]
4. OXIDES OF NITROGEN EMISSIONS SHALL NOT EXCEED 0.15 G/BHP-HR, AT 15 PERCENT OXYGEN.
[RULE 1110.2]
5. VOLATILE ORGANIC COMPOUNDS SHALL NOT EXCEED 0.15 G/BHP-HR, AT 15 PERCENT OXYGEN.
[RULE 1110.2]
6. CARBON MONOXIDE EMISSIONS SHALL NOT EXCEED 0.6 G/BHP-HR, AT 15 PERCENT OXYGEN.
[RULE 1110.2]

Emissions And Requirements:

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

NOX: RULE 1110.2, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 1110.2, SEE APPENDIX B FOR EMISSION LIMITS
CO RULE 1110.2, SEE APPENDIX B FOR EMISSION LIMITS



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

PERMIT TO OPERATE

Permit No. D41377
A/N 243994

Equipment Description:

INTERNAL COMBUSTION ENGINE, INTERNATIONAL HARVESTER, GASOLINE-FUELED, MODEL NO 4-196, 4 CYLINDERS, 4 CYCLES, NATURALLY ASPIRATED, 66 BHP, WITH 1 EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED AT A SITE WHICH IS LOCATED WITHIN 1000 FEET OF THE OUTSIDE BOUNDARIES OF A SCHOOL DUE TO THE REQUIREMENTS OF RULE 212.
[RULE 212]
4. OXIDES OF NITROGEN EMISSIONS SHALL NOT EXCEED 0.15 G/BHP-HR, AT 15 PERCENT OXYGEN.
[RULE 1110.2]
5. VOLATILE ORGANIC COMPOUNDS SHALL NOT EXCEED 0.15 G/BHP-HR, AT 15 PERCENT OXYGEN.
[RULE 1110.2]
6. CARBON MONOXIDE EMISSIONS SHALL NOT EXCEED 0.6 G/BHP-HR, AT 15 PERCENT OXYGEN.
[RULE 1110.2]

Emissions And Requirements:

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

NOX: RULE 1110.2, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 1110.2, SEE APPENDIX B FOR EMISSION LIMITS
CO RULE 1110.2, SEE APPENDIX B FOR EMISSION LIMITS



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

PERMIT TO OPERATE

Permit No. D41378
A/N 244309

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATOR, MODEL NO KT-1150-G, SERIAL NO. 31101195, 6 CYLINDERS, 4 CYCLES, TURBOCHARGED, 465 BHP, WITH 1 EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME (IN HOURS), AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. D38299
A/N 244310**

Equipment Description:

INTERNAL COMBUSTION ENGINE, VOLVO VENTA, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATOR, MODEL NO. TID121KGP, SERIAL NO. 1101015799, 6 CYLINDERS, FOUR CYCLE, TURBOCHARGED, INTERCOOLED, 440 BHP, WITH 1 EXHAUST.

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. AN ELAPSED TIME METER SHALL BE INSTALLED/MAINTAINED, SO AS TO INDICATE IN CUMULATIVE HOURS, THE AMOUNT OF TIME THE ENGINE HAS OPERATED.
[RULE 1304(a), RULE 1110.2]
4. THE ENGINE IS LIMITED TO AN OPERATING SCHEDULE OF NO MORE THAN 16.6 HOURS IN ANY ONE DAY AND NO MORE THAN 125 HOURS (CUMULATIVE) IN ANY ONE CALENDAR YEAR UNLESS ADDITIONAL HOURS ARE OTHERWISE AUTHORIZED BY THE EXECUTIVE OFFICER. THIS EQUIPMENT SHALL ONLY OPERATE DURING MAINTENANCE TESTING, PERFORMANCE TESTING, OR IN CASES OF EMERGENCY.
[RULE 1304(a), RULE 1110.2]
5. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE RETARDED A MINIMUM OF 40 (FOUR DEGREES) RELATIVE TO STANDARD TIMING.
[RULE 1304(a), RULE 1110.2]
6. AN OPERATION RECORD OF THIS EQUIPMENT SHALL BE MAINTAINED IN A FORMAT APPROVED IN WRITING BY THE DIRECTOR OF ENFORCEMENT. THE RECORD SHALL INCLUDE, AT A MINIMUM, THE HOURS AND DAYS OF OPERATION AND THE QUANTITY OF FUEL USED. THE OPERATING RECORD SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE UPON REQUEST OF DISTRICT PERSONNEL.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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 LAC/USC MEDICAL CENTER

PERMIT TO OPERATE

Permit No. D41379
A/N 244311

Equipment Description:

INTERNAL COMBUSTION ENGINE, GENERAL MOTORS, DIESEL-FUELED, MODEL NO. 6-71 RC6, SERIAL NO. 671 3450, 6 CYLINDERS, TWO CYCLE, NATURALLY ASPIRATED, 100 BHP, WITH 1 EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME (IN HOURS), AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. D41380
A/N 244312**

Equipment Description:

INTERNAL COMBUSTION ENGINE, VALLEY DETROIT DIESEL, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATOR, MODEL NO. 1063-7305, SERIAL NO. 6A458608, 6 CYLINDERS, 2 CYCLES, TURBOCHARGED, 315 BHP, WITH 1 EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME (IN HOURS), AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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 LAC/USC MEDICAL CENTER

PERMIT TO OPERATE

Permit No. D41383
A/N 244315

Equipment Description:

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATOR, MODEL NO. 8083-7300, SERIAL NO. 8VF003601, 8 CYLINDERS, 2 CYCLES, TURBOCHARGED, 400 BHP, WITH 1 EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME (IN HOURS), AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. D41384
A/N 244316**

Equipment Description:

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATOR, MODEL NO. 8063-7405, SERIAL NO. 06VF140507, 6 CYLINDERS, 2 CYCLES, TURBOCHARGED, AFTERCOOLED, 335 BHP, WITH 1 EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME (IN HOURS), AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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 LAC/USC MEDICAL CENTER

PERMIT TO OPERATE

Permit No. D41145
A/N 244317

Equipment Description:

INTERNAL COMBUSTION ENGINE, WHITE, NATURAL GAS-FUELED, EMERGENCY ELECTRICAL GENERATOR, MODEL NO. G2300X285, SERIAL NO. G2300X285, 6 CYLINDERS, 4 CYCLES, NATURALLY ASPIRATED, 88 BHP, WITH 1 EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME (IN HOURS), AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. D41385
A/N 244318**

Equipment Description:

INTERNAL COMBUSTION ENGINE, GENERAL MOTORS, DIESEL-FUELED, MODEL NO. 5043-7101, 4 CYLINDERS, 2 CYCLES, NATURALLY ASPIRATED, 93 BHP, WITH 1 EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME (IN HOURS), AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. D41386
A/N 244319**

Equipment Description:

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATOR, MODEL NO. 7083-7305, SERIAL NO. 8VA321658, 8 CYLINDERS, 2 CYCLES, TURBOCHARGED, 315 BHP, WITH 1 EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME (IN HOURS), AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. D41387
A/N 244320**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATOR, MODEL NO. KT-1150-G, SERIAL NO. 3110128701800, 6 CYLINDERS, 4 CYCLES, TURBOCHARGED, 465 BHP, WITH 1 EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME (IN HOURS), AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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 LAC/USC MEDICAL CENTER

PERMIT TO OPERATE

Permit No. D39314
A/N 244321

Equipment Description:

PORTABLE INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, MODEL 8083-7405, SERIAL NO. 08VF139017, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATION, TURBOCHARGED, AFTERCOOLED, 8 CYLINDERS, 540 B.H.P.

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]
4. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
5. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 165 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
6. A DAILY LOG LISTING THE ENGINE OPERATING TIME, IN HOURS, SHALL BE KEPT. THE LOG SHALL BE MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]
7. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO STANDARD TIMING.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. D39159
A/N 249479**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 6BT5.9G1, TURBOCHARGED, 6 CYLINDERS, FOUR CYCLE, 134 BHP, WITH 1 EXHAUST.

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. AN ELAPSED TIME METER SHALL BE INSTALLED/MAINTAINED, SO AS TO INDICATE IN CUMULATIVE HOURS, THE AMOUNT OF TIME THE ENGINE HAS OPERATED.
[RULE 1304(a), RULE 1110.2]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 125 HOURS (CUMULATIVE) IN ANY ONE YEAR UNLESS ADDITIONAL HOURS ARE OTHERWISE AUTHORIZED BY THE EXECUTIVE OFFICER. THIS EQUIPMENT MAY ONLY OPERATE DURING MAINTENANCE TESTING, PERFORMANCE TESTING, OR IN CASES OF EMERGENCY.
[RULE 1304(a), RULE 1110.2]
5. THE UNCONTROLLED EMISSION RATE OF REACTIVE ORGANIC GASES SHALL NOT EXCEED 0.24 LB/HR; THE UNCONTROLLED EMISSION RATE OF OXIDES OF NITROGEN SHALL NOT EXCEED 3.5 LB/HR.
[RULE 1304(a), RULE 1110.2]
6. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE RETARDED A MINIMUM OF 4 DEGREES RELATIVE TO STANDARD TIMING.
[RULE 1304(a), RULE 1110.2]
7. THE IGNITION TIMING OF THIS ENGINE SHALL BE INSPECTED, ADJUSTED, AND CERTIFIED, AT A MINIMUM, ONCE EVERY THREE YEARS OF OPERATION. INSPECTIONS, ADJUSTMENTS, AND CERTIFICATIONS SHALL BE PERFORMED BY A QUALIFIED MECHANIC AND ACCORDING TO THE ENGINE MANUFACTURER'S PROCEDURES.
[RULE 1304(a), RULE 1110.2]



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

8. AN OPERATING RECORD OF THIS EQUIPMENT SHALL BE MAINTAINED IN A FORMAT APPROVED IN WRITING BY THE DIRECTOR OF ENFORCEMENT. THE RECORD SHALL INCLUDE, AT A MINIMUM, THE HOURS AND DAYS OF OPERATION AND THE QUANTITY OF FUEL USED. THE OPERATING RECORD SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE UPON REQUEST OF DISTRICT PERSONNEL. FUEL OIL SUPPLIED TO THIS ENGINE SHALL BE NO. 2 OR LIGHTER GRADE AS DESCRIBED BY THE LATEST ASTM SPECIFICATIONS AND SHALL HAVE A SULFUR CONTENT OF NOT MORE THAN 0.05 PERCENT BY WEIGHT.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. D47299
A/N 255744**

Equipment Description:

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, MODEL 8063-7405, SERIAL NO. AD201983 SNE, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATION, TURBOCHARGED, AFTERCOOLED, 6 CYLINDERS, 402 B.H.P.

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. A TIMER SHALL BE MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
4. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]
6. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO STANDARD TIMING.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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 LAC/USC MEDICAL CENTER

PERMIT TO OPERATE

Permit No. D61857
A/N 271884

Equipment Description:

INTERNAL COMBUSTION ENGINE, GENERAC, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 13.3 DTA, SD 250, TURBOCHARGED, AFTERCOOLED, 6 CYLINDERS, 400 BHP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE INSTALLED SO AS TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
5. AN ENGINE OPERATING LOG, LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]
6. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO STANDARD TIMING.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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 LAC/USC MEDICAL CENTER

PERMIT TO OPERATE

Permit No. D92777
A/N 303040

Equipment Description:

ETHYLENE OXIDE (ETO) GAS STERILIZER/AERATOR, AMSCO, MODEL EAGLE 3047, 2'-0" W X 4'-0" L X 3'-0" H (INTERNAL DIMENSIONS), STEAM HEATED, WITH A 3 HP 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 TOTAL COMBINED MAXIMUM AMOUNT OF STERILANT GAS (10% ETO/63% HCFC- 124/27% HCFC-22 BY WEIGHT) USED IN THE TWO STERILIZERS (COVERED UNDER A/N 303040 AND A/N 303041) SHALL NOT EXCEED 11.7 POUNDS IN ANY ONE DAY OR 304 POUNDS IN ANY CALENDAR MONTH.
[RULE 1405]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL DEVICE WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO CONSTRUCT AND/OR OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1405]
5. THIS EQUIPMENT SHALL BE LEAKED CHECKED PER AQMD RULE 1405 (d)(5).
[RULE 1405]
6. ALL RECORDS, SUCH AS OPERATING SCHEDULES AND NUMBER OF LOADS PROCESSED, SHALL BE MAINTAINED, KEPT ON FILE FOR A MINIMUM OF FIVE YEARS, AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1405]

Emissions And Requirements:

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

ETHYLENE OXIDE: RULE 1405(d), SEE RULE FOR REQUIREMENTS



**FACILITY PERMIT TO OPERATE
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. D92778
A/N 303041**

Equipment Description:

ETHYLENE OXIDE (ETO) GAS STERILIZER/AERATOR, AMSCO, MODEL EAGLE 3047, 2'-0" W X 4'-0" L X 3'-0" H (INTERNAL DIMENSIONS), STEAM HEATED, WITH A 3 HP 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 TOTAL COMBINED MAXIMUM AMOUNT OF STERILANT GAS (10% ETO/63% HCFC- 124/27% HCFC-22 BY WEIGHT) USED IN THE TWO STERILIZERS (COVERED UNDER A/N 303040 AND A/N 303041) SHALL NOT EXCEED 11.7 POUNDS IN ANY ONE DAY OR 304 POUNDS IN ANY CALENDAR MONTH.
[RULE 1405]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL DEVICE WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO CONSTRUCT AND/OR OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1405]
5. THIS EQUIPMENT SHALL BE LEAKED CHECKED PER AQMD RULE 1405 (d)(5).
[RULE 1405]
6. ALL RECORDS, SUCH AS OPERATING SCHEDULES AND NUMBER OF LOADS PROCESSED, SHALL BE MAINTAINED, KEPT ON FILE FOR A MINIMUM OF FIVE YEARS, AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1405]

Emissions And Requirements:

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

ETHYLENE OXIDE: RULE 1405(d), SEE RULE FOR REQUIREMENTS



**FACILITY PERMIT TO OPERATE
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. D92779
A/N 303042**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. CATALYTIC OXIDIZER (EO DISPOSER), AMSCO, 2'-5" W. X 2'-5" L. X 6'-10" H. (EXTERIOR DIMENSIONS), WITH A 10 KW PREHEATER, PREFILTER, 0.5 HP VACUUM PUMP, AND A CATALYST.
2. EXHAUST SYSTEM WITH A 0.6 HP AIR BLOWER VENTING THE ETHYLENE OXIDE STERILIZER/AERATOR.

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. ONLY ONE STERILIZER SHALL BE VENTED TO THE CATALYTIC OXIDIZER (ETO DISPOSER) AT ANY TIME.
[RULE 1405]
4. THE TEMPERATURE OF THE EXHAUST FROM THE CATALYST BED SHALL BE MAINTAINED AT A MINIMUM OF 350 DEGREES F AS INDICATED BY A PROPER TEMPERATURE GAUGE AND/OR RECORDER.
[RULE 1405]
5. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT ANNUAL SOURCE TESTS PER AQMD RULE 1405(d)(6).
[RULE 1405]
6. RECORDS SHALL BE MAINTAINED TO SHOW COMPLIANCE WITH THE ABOVE IN A FORMAT APPROVED BY THE AQMD. THE RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1405]



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

Emissions And Requirements:

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

ETHYLENE OXIDE: RULE 1405(d), SEE RULE FOR REQUIREMENTS



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

PERMIT TO OPERATE

Permit No. D92780
A/N 303043

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. CATALYTIC OXIDIZER (EO DISPOSER), AMSCO, 2'-5" W. X 2'-5" L. X 6'-10" H. (EXTERIOR DIMENSIONS), WITH A 10 KW PREHEATER, PREFILTER, 0.5 HP VACUUM PUMP, AND A CATALYST.
2. EXHAUST SYSTEM WITH A 0.6 HP AIR BLOWER VENTING THE ETHYLENE OXIDE STERILIZER/AERATOR.

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. ONLY ONE STERILIZER SHALL BE VENTED TO THE CATALYTIC OXIDIZER (ETO DISPOSER) AT ANY TIME.
[RULE 1405]
4. THE TEMPERATURE OF THE EXHAUST FROM THE CATALYST BED SHALL BE MAINTAINED AT A MINIMUM OF 350 DEGREES F AS INDICATED BY A PROPER TEMPERATURE GAUGE AND/OR RECORDER.
[RULE 1405]
5. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT ANNUAL SOURCE TESTS PER AQMD RULE 1405(d)(6).
[RULE 1405]
6. RECORDS SHALL BE MAINTAINED TO SHOW COMPLIANCE WITH THE ABOVE IN A FORMAT APPROVED BY THE AQMD. THE RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1405]

Emissions And Requirements:

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

ETHYLENE OXIDE: RULE 1405(d), SEE RULE FOR REQUIREMENTS



**FACILITY PERMIT TO OPERATE
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. D97367
A/N 312824**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL NO. KTA19-G3, 685 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
- 3) A TIMER SHALL BE MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
- 4) THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 200 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
- 5) AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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 LAC/USC MEDICAL CENTER

PERMIT TO OPERATE

Permit No. F3444
A/N 321229

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL NO. KTA19-G3, 685 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
- 3) A TIMER SHALL BE MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
- 4) THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 123 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
- 5) AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. 42664
A/N G00291**

Equipment Description:

SPRAY BOOTH, DEVILBISS, WATER-WASH TYPE, 16' W. X 8' H. X 10' D., WITH A 7 ½ H.P. EXHAUST FAN AND A 7 ½ H.P. WATER PUMP.

Conditions:

1. THE OPERATOR SHALL NOT OPERATE THIS EQUIPMENT UNLESS THE WATER WASH UNIT IS PROPERLY MAINTAINED AND IN FULL OPERATION WITH THE WATER CURTAIN COMPLETELY COVERING THE EXHAUST SECTION OF THE BOOTH. THE OPERATOR SHALL ALSO PERFORM A WEEKLY INSPECTION OF THE WATER CURTAIN INTEGRITY. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
 - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE WATER WASH;
 - B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
 - C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.[RULE 3004 (a)(4)]

Emissions And Requirements:

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

- VOC: RULE 109
- VOC: RULE 1104, SEE APPENDIX B FOR EMISSION LIMITS
- VOC: RULE 1107, SEE APPENDIX B FOR EMISSION LIMITS
- VOC: RULE 1168, 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



**FACILITY PERMIT TO OPERATE
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. M22610
A/N G03352**

Equipment Description:

ENGINE #2, GENERAL MOTORS, MODEL 16-645-E1, 2,000 H.P., SERIAL NO. 72-71-1052, DIESEL FIRED, DRIVING A 1250 KW CAPACITY EMERGENCY ELECTRIC GENERATOR.

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
- 3) A TIMER SHALL BE MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
- 4) THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 123 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
- 5) AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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
LAC/USC MEDICAL CENTER**

PERMIT TO OPERATE

**Permit No. M22611
A/N G03353**

Equipment Description:

ENGINE #1, GENERAL MOTORS, MODEL 16-567-D1, 2,000 H.P., SERIAL NO. 66-J3-1027, DIESEL FIRED, DRIVING A 1250 KW CAPACITY EMERGENCY ELECTRIC GENERATOR.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
- 3) A TIMER SHALL BE MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1304(a), RULE 1110.2]
- 4) THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 123 HOURS IN ANY ONE YEAR.
[RULE 1304(a), RULE 1110.2]
- 5) AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1304(a), RULE 1110.2]

Emissions And Requirements:

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
LAC/USC MEDICAL CENTER**

PERMIT TO CONSTRUCT

Permit No. N/A
A/N 530498

Equipment Description:

BOILER NO. 1, NEBRASKA, MODEL NO. NB200D, 49,500,000 BTU/HR, WATER TUBE, 39,000 LB/HR STEAM CAPACITY, WITH A LOW-NOX BURNER, INDUSTRIAL COMBUSTION, 49,500,000 BTU/HR, MODEL NO. NTL504GS-09S-1, NATURAL GAS FIRED, WITH AMBER 363 STANDBY FUEL, EQUIPPED WITH A FLUE GAS RECIRCULATION SYSTEM, OXYGEN TRIM, AND A 100 HP COMBUSTION AIR BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1146, INCLUDING THE SOURCE TESTING REQUIREMENTS OF RULE 1146(D)(6) AND (8).
[RULE 1146]
4. THIS BOILER SHALL NOT EMIT MORE THAN 5 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO₂, AND NOT MORE THAN 50 PPM OF CARBON MONOXIDE (CO), AND NOT MORE THAN 5 PPMV OF AMMONIA, ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.
[RULE 1146, RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT]
5. THIS BOILER SHALL BE FIRED WITH NATURAL GAS AND ONLY USE FUEL OIL DURING MAINTENANCE TESTING (NOT TO EXCEED ½ HOUR PER MONTH), SOURCE TESTING, OR PERIODS OF NATURAL GAS CURTAILMENT.
[RULE 1146, RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT, 40 CFR 60.48c(g)(2)]
6. THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WITHIN ONE MINUTE AFTER THE MAIN FLAME IS ESTABLISHED. THE OXIDES OF NITROGEN CONCENTRATIONS IN THE FLUE GAS SHALL NOT EXCEED 5 PPM WHEN THE BOILER IS FIRED ON NATURAL GAS AND 40 PPM WHEN THE BOILER IS FIRED ON FUEL OIL, ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O₂ AND AVERAGED OVER A MINIMUM OF 15 CONSECUTIVE MINUTES.
[RULE 1146, RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT]
7. THE OPERATOR SHALL USE ONLY LOW SULFUR FUEL IN THIS EQUIPMENT WITH A SULFUR CONTENT OF 15 PPM OR LESS BY WEIGHT.
[RULE 431.2, 40 CFR 60.42c(d)]



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8. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
- A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 DAYS AFTER INITIAL START-UP UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
 - B. THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NOX AND CO EMISSION LIMITS SPECIFIED IN CONDITION NO. 4.
 - C. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS FIRING AT MAXIMUM, AVERAGE, AND MINIMUM FIRING RATES.
 - D. WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) AT LEAST 10 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.
 - E. TWO COMPLETE COPIES OF THE SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT WITHIN 30 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO EMISSIONS RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE HEATER, 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 ACTUAL CUBIC FEET PER MINUTE (ACFM).
 - II. THE FIRING RATES, IN BTU PER HOUR.
 - III. THE EXHAUST TEMPERATURE, IN DEGREES FAHRENHEIT.
 - IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT.
 - V. THE FUEL FLOW RATE.
 - F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
 - G. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES PURSUANT TO RULE 217. [RULE 1146, RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT]
9. THIS BOILER SHALL ONLY VENT TO SELECTIVE CATALYTIC REDUCTION (SCR) UNITS THAT ARE IN FULL OPERATION AND WHICH HAVE BEEN ISSUED PERMITS TO CONSTRUCT/OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT]

PERIODIC MONITORING



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

10. 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 FUEL OIL, 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 LASTS 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 3 BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

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

- A. STACK OR EMISSION POINT IDENTIFICATION;
 - B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
 - C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
 - D. VISIBLE EMISSION OBSERVATION RECORD BY A CERTIFIED SMOKE READER.
- [RULE 3004(A)(4)]

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

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

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

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

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

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



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

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

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

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

B. MONTHLY AND ANNUAL NATURAL GAS FUEL USE IN SCF
[40 CFR 60.48c(g)(2)]

13. THIS BOILER SHALL BE EQUIPPED WITH A NON-RESETTABLE, TOTALIZING FLOW METER FOR FUEL OIL.
[RULE 3004(a)(4), 40 CFR 60.48c(g)(2)]
14. THE OPERATOR SHALL INSTALL AND MAINTAIN A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) TO MEASURE THE EMISSIONS OF OXIDES OF NITROGEN (NO_x). THE CEMS SHALL MEASURE THE NO_x CONCENTRATION IN PPMV AND SHALL BE CORRECTED TO 3% OXYGEN ON A DRY BASIS. THE CEMS SHALL BE INSTALLED AND OPERATED NO LATER THAN 90 DAYS AFTER INITIAL START-UP OF THE BOILER AND IN ACCORDANCE WITH APPROVED AQMD RULE 218 CEMS PLAN APPLICATION. THE OPERATOR SHALL NOT INSTALL THE CEMS PRIOR TO RECEIVING INITIAL WRITTEN APPROVAL FROM THE AQMD. WITHIN TWO WEEKS OF THE INITIAL START UP OF THE BOILER, THE OPERATOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE DISTRICT OF THE EXACT DATE OF START-UP. THE CEMS SHALL BE INSTALLED AND OPERATED TO MEASURE THE NO_x CONCENTRATIONS OVER A 15 MINUTE AVERAGING TIME PERIOD.
[RULE 218]

EMISSIONS AND REQUIREMENTS

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

NO_x: 5 PPMV, RULE 1303(a)(1) – BACT; RULE 1146 (USING NATURAL GAS)
NO_x: 40 PPMV, RULE 1146 (USING FUEL OIL)
CO: 50 PPMV, RULE 1303(a)(1) – BACT
CO: 400 PPMV, RULE 1146
CO: 2,000 PPMV, RULE 407
PM: 0.1 GR/DSCF, RULE 409



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

Permit No. N/A
A/N 530499

Equipment Description:

BOILER NO. 2, NEBRASKA, MODEL NO. NB200D, 49,500,000 BTU/HR, WATER TUBE, 39,000 LB/HR STEAM CAPACITY, WITH A LOW-NOX BURNER, INDUSTRIAL COMBUSTION, 49,500,000 BTU/HR, MODEL NO. NTLX504GS-09S-1, NATURAL GAS FIRED, WITH AMBER 363 STANDBY FUEL, EQUIPPED WITH A FLUE GAS RECIRCULATION SYSTEM, OXYGEN TRIM, AND A 100 HP COMBUSTION AIR BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1146, INCLUDING THE SOURCE TESTING REQUIREMENTS OF RULE 1146(D)(6) AND (8).
[RULE 1146]
4. THIS BOILER SHALL NOT EMIT MORE THAN 5 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO₂, AND NOT MORE THAN 50 PPM OF CARBON MONOXIDE (CO), AND NOT MORE THAN 5 PPMV OF AMMONIA, ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.
[RULE 1146, RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT]
5. THIS BOILER SHALL BE FIRED WITH NATURAL GAS AND ONLY USE FUEL OIL DURING MAINTENANCE TESTING (NOT TO EXCEED ½ HOUR PER MONTH), SOURCE TESTING, OR PERIODS OF NATURAL GAS CURTAILMENT.
[RULE 1146, RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT, 40 CFR 60.48c(g)(2)]
6. THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WITHIN ONE MINUTE AFTER THE MAIN FLAME IS ESTABLISHED. THE OXIDES OF NITROGEN CONCENTRATIONS IN THE FLUE GAS SHALL NOT EXCEED 5 PPM WHEN THE BOILER IS FIRED ON NATURAL GAS AND 40 PPM WHEN THE BOILER IS FIRED ON FUEL OIL, ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O₂ AND AVERAGED OVER A MINIMUM OF 15 CONSECUTIVE MINUTES.
[RULE 1146, RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT]



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

7. THE OPERATOR SHALL USE ONLY LOW SULFUR FUEL IN THIS EQUIPMENT WITH A SULFUR CONTENT OF 15 PPM OR LESS BY WEIGHT.
[RULE 431.2, 40 CFR 60.42c(d)]
8. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
- A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 DAYS AFTER INITIAL START-UP UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
 - B. THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NOX AND CO EMISSION LIMITS SPECIFIED IN CONDITION NO. 4.
 - C. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS FIRING AT MAXIMUM, AVERAGE, AND MINIMUM FIRING RATES.
 - D. WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) AT LEAST 10 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.
 - E. TWO COMPLETE COPIES OF THE SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT WITHIN 30 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO EMISSIONS RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE HEATER, 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 ACTUAL CUBIC FEET PER MINUTE (ACFM).
 - II. THE FIRING RATES, IN BTU PER HOUR.
 - III. THE EXHAUST TEMPERATURE, IN DEGREES FAHRENHEIT.
 - IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT.
 - V. THE FUEL FLOW RATE.
 - F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
 - G. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES PURSUANT TO RULE 217.
[RULE 1146, RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT]
9. THIS BOILER SHALL ONLY VENT TO SELECTIVE CATALYTIC REDUCTION (SCR) UNITS THAT ARE IN FULL OPERATION AND WHICH HAVE BEEN ISSUED PERMITS TO CONSTRUCT/OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT]

PERIODIC MONITORING



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

10. 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 FUEL OIL, 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 LASTS 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 3 BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

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

- A. STACK OR EMISSION POINT IDENTIFICATION;
 - B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
 - C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
 - D. VISIBLE EMISSION OBSERVATION RECORD BY A CERTIFIED SMOKE READER.
- [RULE 3004(A)(4)]

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

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

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

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

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

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



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

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

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

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

B. MONTHLY AND ANNUAL NATURAL GAS FUEL USE IN SCF
[40 CFR 60.48c(g)(2)]

13. THIS BOILER SHALL BE EQUIPPED WITH A NON-RESETTABLE, TOTALIZING FLOW METER FOR FUEL OIL.
[RULE 3004(a)(4), 40 CFR 60.48c(g)(2)]
14. THE OPERATOR SHALL INSTALL AND MAINTAIN A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) TO MEASURE THE EMISSIONS OF OXIDES OF NITROGEN (NO_x). THE CEMS SHALL MEASURE THE NO_x CONCENTRATION IN PPMV AND SHALL BE CORRECTED TO 3% OXYGEN ON A DRY BASIS. THE CEMS SHALL BE INSTALLED AND OPERATED NO LATER THAN 90 DAYS AFTER INITIAL START-UP OF THE BOILER AND IN ACCORDANCE WITH APPROVED AQMD RULE 218 CEMS PLAN APPLICATION. THE OPERATOR SHALL NOT INSTALL THE CEMS PRIOR TO RECEIVING INITIAL WRITTEN APPROVAL FROM THE AQMD. WITHIN TWO WEEKS OF THE INITIAL START UP OF THE BOILER, THE OPERATOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE DISTRICT OF THE EXACT DATE OF START-UP. THE CEMS SHALL BE INSTALLED AND OPERATED TO MEASURE THE NO_x CONCENTRATIONS OVER A 15 MINUTE AVERAGING TIME PERIOD.
[RULE 218]

EMISSIONS AND REQUIREMENTS

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

NO_x: 5 PPMV, RULE 1303(a)(1) – BACT; RULE 1146 (USING NATURAL GAS)
NO_x: 40 PPMV, RULE 1146 (USING FUEL OIL)
CO: 50 PPMV, RULE 1303(a)(1) – BACT
CO: 400 PPMV, [RULE 1146]
CO: 2,000 PPMV, RULE 407
PM: 0.1 GR/DSCF, RULE 409



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

PERMIT TO CONSTRUCT

Permit No. N/A
A/N 530500

Equipment Description:

AIR POLLUTION CONTROL SYSTEM NO.1 (CONNECTED TO BOILER NO.1 DESCRIBED BY A/N 530498),
CONSISTING OF:

1. SELECTIVE CATALYTIC REDUCTION, HALDOR TOPSOE, MODEL NO. DNX-929, TITANIUM DIOXIDE, VANADIUM PENTOXIDE AND TUNGSTEN OXIDE CATALYST MATERIAL, LENGTH: 4 FT 6 IN; WIDTH: 4 FT 6 IN; DEPTH: 1 FT 1 IN; VOLUME: 17.66 CU FT;
2. UREA INJECTION GRID

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT EMIT MORE THAN 5 PPM OF AMMONIA, MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.
[RULE 1303(A)(1)-BACT]
4. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
 - A. THE TEST SHALL BE CONDUCTED AND THE RESULTS SUBMITTED TO THE DISTRICT WITHIN 45 DAYS AFTER THE TEST DATE. THE DISTRICT SHALL BE NOTIFIED OF THE DATE AND TIME OF THE TEST AT LEAST 7 DAYS PRIOR TO THE TEST.
 - B. THE TEST SHALL BE CONDUCTED AT LEAST QUARTERLY DURING THE FIRST TWELVE MONTHS OF OPERATION AND AT LEAST ANNUALLY THEREAFTER. THE NOX CONCENTRATION AS DETERMINED BY THE CEMS, SHALL BE SIMULTANEOUSLY RECORDED DURING THE AMMONIA SLIP TEST. IF THE CEMS IS INOPERABLE, A TEST SHALL BE CONDUCTED TO DETERMINE THE NOX EMISSIONS USING DISTRICT METHOD 100.1 MEASURED OVER A 60 MINUTE AVERAGING TIME PERIOD. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 DAYS AFTER INITIAL START-UP UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
 - C. THE TESTS SHALL BE CONDUCTED TO DETERMINE COMPLIANCE WITH THE RULE 1303 BACT CONCENTRATION LIMIT.



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- [RULE 1303(A)(1)-BACT]
5. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE TO ACCURATELY INDICATE THE TEMPERATURE OF THE EXHAUST AT THE INLET TO THE SCR REACTOR. THE MEASURING DEVICE OR GAUGE SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT. IT SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED. THE SELECTIVE CATALYTIC REDUCTION (SCR) TEMPERATURE RANGE SHALL REMAIN BETWEEN 400 DEGREES FAHRENHEIT AND 691 DEGREES FAHRENHEIT.
[RULE 1303(A)(1)-BACT]
6. THE OPERATOR SHALL INSTALL AND MAINTAIN A FLOW METER TO ACCURATELY INDICATE THE FLOW RATE OF THE TOTAL HOURLY THROUGHPUT OF INJECTED AMMONIA. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED. THE MEASURING DEVICE OR GAUGE SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT. IT SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. THE AMMONIA INJECTION RATE SHALL NOT EXCEED 1.0 GALLONS/HR
[RULE 1303(A)(1)-BACT]
7. THE OPERATOR SHALL INSTALL AND MAINTAIN A PRESSURE GAUGE TO ACCURATELY INDICATE THE DIFFERENTIAL PRESSURE ACROSS THE SCR CATALYST BED IN INCHES OF WATER COLUMN. THE MEASURING DEVICE OR GAUGE SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT. IT SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED. THE PRESSURE DROP ACROSS THE CATALYST SHALL NOT EXCEED 4.0 INCHES OF WATER COLUMN.
[RULE 1303(A)(1)-BACT]

EMISSIONS AND REQUIREMENTS

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- NH3: 5 PPMV, RULE 1303(a)(1) – BACT



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

PERMIT TO CONSTRUCT

Permit No. N/A
A/N 530500

Equipment Description:

AIR POLLUTION CONTROL SYSTEM NO.2 (CONNECTED TO BOILER NO.1 DESCRIBED BY A/N 530498),
CONSISTING OF:

1. SELECTIVE CATALYTIC REDUCTION, HALDOR TOPSOE, MODEL NO. DNX-929, TITANIUM DIOXIDE, VANADIUM PENTOXIDE AND TUNGSTEN OXIDE CATALYST MATERIAL, LENGTH: 4 FT 6 IN; WIDTH: 4 FT 6 IN; DEPTH: 1 FT 1 IN; VOLUME: 17.66 CU FT;
2. UREA INJECTION GRID

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT EMIT MORE THAN 5 PPM OF AMMONIA, MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.
[RULE 1303(A)(1)-BACT]
4. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
 - A. THE TEST SHALL BE CONDUCTED AND THE RESULTS SUBMITTED TO THE DISTRICT WITHIN 45 DAYS AFTER THE TEST DATE. THE DISTRICT SHALL BE NOTIFIED OF THE DATE AND TIME OF THE TEST AT LEAST 7 DAYS PRIOR TO THE TEST.
 - B. THE TEST SHALL BE CONDUCTED AT LEAST QUARTERLY DURING THE FIRST TWELVE MONTHS OF OPERATION AND AT LEAST ANNUALLY THEREAFTER. THE NOX CONCENTRATION AS DETERMINED BY THE CEMS, SHALL BE SIMULTANEOUSLY RECORDED DURING THE AMMONIA SLIP TEST. IF THE CEMS IS INOPERABLE, A TEST SHALL BE CONDUCTED TO DETERMINE THE NOX EMISSIONS USING DISTRICT METHOD 100.1 MEASURED OVER A 60 MINUTE AVERAGING TIME PERIOD. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 DAYS AFTER INITIAL START-UP UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
 - C. THE TESTS SHALL BE CONDUCTED TO DETERMINE COMPLIANCE WITH THE RULE 1303 BACT CONCENTRATION LIMIT.
[RULE 1303(A)(1)-BACT]



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

5. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE TO ACCURATELY INDICATE THE TEMPERATURE OF THE EXHAUST AT THE INLET TO THE SCR REACTOR. THE MEASURING DEVICE OR GAUGE SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT. IT SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED. THE SELECTIVE CATALYTIC REDUCTION (SCR) TEMPERATURE RANGE SHALL REMAIN BETWEEN 400 DEGREES FAHRENHEIT AND 691 DEGREES FAHRENHEIT.
[RULE 1303(A)(1)-BACT]

6. THE OPERATOR SHALL INSTALL AND MAINTAIN A FLOW METER TO ACCURATELY INDICATE THE FLOW RATE OF THE TOTAL HOURLY THROUGHPUT OF INJECTED AMMONIA. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED. THE MEASURING DEVICE OR GAUGE SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT. IT SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. THE AMMONIA INJECTION RATE SHALL NOT EXCEED 1.0 GALLONS/HR
[RULE 1303(A)(1)-BACT]

7. THE OPERATOR SHALL INSTALL AND MAINTAIN A PRESSURE GAUGE TO ACCURATELY INDICATE THE DIFFERENTIAL PRESSURE ACROSS THE SCR CATALYST BED IN INCHES OF WATER COLUMN. THE MEASURING DEVICE OR GAUGE SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT. IT SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED. THE PRESSURE DROP ACROSS THE CATALYST SHALL NOT EXCEED 4.0 INCHES OF WATER COLUMN.
[RULE 1303(A)(1)-BACT]

EMISSIONS AND REQUIREMENTS

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

NH₃: 5 PPMV, RULE 1303(a)(1) – BACT



**FACILITY PERMIT TO OPERATE
LAC/USC MEDICAL CENTER**

PERMIT TO CONSTRUCT

**Permit No. N/A
A/N 536258**

Equipment Description:

STORAGE TANK NO. 1, UREA, FIXED ROOF, CAPACITY 1,000 GALLONS, DIAMETER 6 FT 5 IN, HEIGHT 6 FT 7 IN,

Conditions:

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



**FACILITY PERMIT TO OPERATE
LAC/USC MEDICAL CENTER**

Permit No. N/A
A/N 536261

Equipment Description:

STORAGE TANK NO. 2, UREA, FIXED ROOF, CAPACITY 1,000 GALLONS, DIAMETER 6 FT 5 IN, HEIGHT 6 FT 7 IN,

Conditions:

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



FACILITY PERMIT TO OPERATE LAC/USC 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 SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

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

[RULE 3004 (a) (4)]

Emissions And Requirements:

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

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, BOILER, > 1 MMBTU/HR BUT < 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



**FACILITY PERMIT TO OPERATE
LAC/USC 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: 40CFR 82 SUBART F



FACILITY PERMIT TO OPERATE LAC/USC 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:
CR¹⁶: RULE 1404



FACILITY PERMIT TO OPERATE LAC/USC 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: 40CFR 82 SUBPART F



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, LOW USE OR EMISSIONS

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - VOC: RULE 1104 , SEE APPENDIX B FOR EMISSION LIMITS
 - VOC: RULE 1107 , SEE APPENDIX B FOR EMISSION LIMITS
 - VOC: RULE 1168 , SEE APPENDIX B FOR EMISSION LIMITS
 - VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
 - VOC: RULE 109



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, FIRE EXTINGUISHING EQUIPMENT

Emissions And Requirements:

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

HALON: RULE 1418



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, NEGATIVE AIR MACHINES.

Periodic Monitoring:

- 1) FOR EACH COMMERCIAL ABATEMENT PROJECT, THE NEGATIVE AIR MACHINE(S) EXHAUST SHALL BE LOCATED A MINIMUM OF 3 METERS (10 FEET) FROM THE NEAREST RECEPTOR (ANY LOCATION WHERE THE PUBLIC CAN BE EXPOSED TO ASBESTOS FIBER EMISSIONS) AND SHALL BE LOCATED AT LEAST 10 FEET ABOVE THE GROUND.
[RULE 1403]
- 2) FOR EACH COMMERCIAL ABATEMENT PROJECT, LOCATED MORE THAN 3 METERS (10 FEET) BUT LESS THAN 30 METERS (98 FEET) FROM ANY RESIDENTIAL ZONING, THE NEGATIVE AIR MACHINE(S) SHALL NOT EXHAUST MORE THAN A COMBINED TOTAL OF 4.8 MILLION CUBIC FEET OF AIR (THE TOTAL RATED AIR FLOW OF ALL MACHINE(S) IN CUBIC FEET PER MINUTE MULTIPLIED BY THE TOTAL NUMBER OF WORKING HOURS INVOLVING ASBESTOS REMOVAL).
[RULE 1403]
- 3) FOR EACH COMMERCIAL ABATEMENT PROJECT, LOCATED GREATER THAN OR EQUAL TO 30 METERS (98 FEET) FROM ANY RESIDENTIAL ZONING, THE NEGATIVE AIR MACHINE(S) SHALL NOT EXHAUST AIR IN WHICH THE COMBINED TOTAL AIR VOLUME (THE TOTAL RATED AIR FLOW OF ALL MACHINE(S) IN CUBIC FEET PER MINUTE MULTIPLIED BY THE TOTAL NUMBER OF WORKING HOURS INVOLVING ASBESTOS REMOVAL) WILL EXCEED THE AMOUNT SPECIFIED ON TABLE 1.
[RULE 1403]

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
ASBESTOS: RULE 1403



FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

ASBESTOS NEGATIVE AIR MACHINE WITH HEPA FILTER, CRITICAL SYSTEMS, MODEL NO. MACH II,
SERIAL NO. 4445, 2000 CFM RATED.

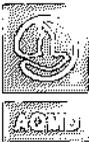
Conditions:

- 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]
- 8) FOR EACH ABATEMENT PROJECT, THE EXHAUST OF EACH NEGATIVE AIR MACHINE SHALL BE ANALYZED BY THE PHASE CONTRAST MICROSCOPY (PCM) METHOD DURING THE FIRST DAY OF ACTUAL ASBESTOS REMOVAL AND AFTER EACH HEPA FILTER REPLACEMENT. IF THIS NEGATIVE AIR MACHINE IS ADDED OR REPLACED DURING A SPECIFIC PROJECT, THE EXHAUST OF THIS ADDITION OR REPLACEMENT SHALL BE ANALYZED BY THE PCM METHOD DURING THE FIRST DAY OF ITS USE DURING ACTUAL ASBESTOS REMOVAL. EXHAUST SAMPLES TO BE ANALYZED SHALL ONLY BE TAKEN DURING ACTUAL ASBESTOS REMOVAL. DURING EACH LONG TERM ABATEMENT PROJECT (GREATER THAN 15 CALENDAR DAYS), THE EXHAUST OF EACH NEGATIVE AIR MACHINE SHALL BE ANALYZED AT LEAST EVERY 15 CALENDAR DAYS.
[RULE 1403]
- 9) THE EXHAUST CONCENTRATION OF ASBESTOS FROM THE NEGATIVE AIR MACHINE SHALL NOT EXCEED 0.01 FIBER PER CUBIC CENTIMETER.
[RULE 1403]
- 10) THE NEGATIVE AIR MACHINE SHALL BE TESTED FOR LEAKAGE AFTER EACH HEPA FILTER CHANGE AND PRIOR TO COMMENCEMENT OF ANY ABATEMENT PROJECT.
[RULE 1403]
- 11) THE EXHAUST CONCENTRATION OF ASBESTOS FROM THE NEGATIVE AIR MACHINE SHALL NOT EXCEED 0.01 FIBER PER CUBIC CENTIMETER.
[RULE 1403]

Emissions And Requirements:

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 LAC/USC MEDICAL CENTER

RULE 1146 COMPLIANCE PLAN

A/N 277827

Conditions:

1. THE EQUIPMENT SUBJECT TO THIS COMPLIANCE PLAN SHALL BE OPERATED IN COMPLIANCE WITH ALL PLANS AND SPECIFICATIONS SUBMITTED WITH THIS APPLICATION UNLESS OTHERWISE NOTED BELOW.
2. A NON-RESETTABLE TOTALIZING FUEL METER FOR EACH FUEL SHALL BE MAINTAINED IN GOOD OPERATING CONDITION FOR THE EQUIPMENT SUBJECT TO THIS COMPLIANCE PLAN.
3. THE EQUIPMENT OWNER OR OPERATOR SHALL MAINTAIN A FUEL USE LOG FOR EACH PRIMARY AND STANDBY FUEL METER WHICH INCLUDES:
 - A) THE PERMIT NUMBERS OR APPLICATION NUMBERS OF THE EQUIPMENT SERVED BY THE PRIMARY AND STANDBY FUEL METERS.
 - B) THE METER READING AND MONTHLY FUEL USAGES RECORDED BY THE PRIMARY AND STANDBY FUEL METERS.
 - C) THE TOTAL MONTHLY HEAT INPUT IN BTU OR THERMS BASED ON THE FUEL USAGES DETERMINED IN B).
 - D) THE TOTAL HEAT INPUT FOR EACH CALENDAR YEAR BASED ON THE MONTHLY HEAT INPUT DETERMINED IN C).
4. THE EQUIPMENT WITH THE FOLLOWING APPLICATION NUMBERS SHALL COMPLY WITH THE TUNE-UP REQUIREMENTS OF RULE 1146.1.

APPLICATION NUMBERS 243845 AND 243846

RECORDS SHALL BE MAINTAINED OF THE DATE OF EACH TUNE-UP, THE COMPANY PERFORMING THE TUNE-UP, AND THE TUNE-UP CO AND O2 RESULTS.
5. ALL RECORDS REQUIRED BY THIS PLAN SHALL BE MAINTAINED IN A FORMAT APPROVED BY THE DISTRICT. THE RECORDS SHALL BE KEPT FOR AT LEAST TWO YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
6. TO REVISE ANY OF THESE COMPLIANCE PLAN CONDITIONS, THE OWNER OR OPERATOR SHALL APPLY FOR AND RECEIVE APPROVAL OF A REVISED COMPLIANCE PLAN.
7. THIS EQUIPMENT SHALL USE NO MORE THAN 18,000 THERMS IN ANY CALENDAR YEAR.

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PERMIT TO CONSTRUCT

COMPANY NAME AND ADDRESS

LAC + USC Medical Center
 1200 State Street
 Los Angeles, CA 90033
 FACILITY ID # 20197

CONTACT: Mr. Brian Pettit, (323) 409-3034

EQUIPMENT LOCATION

Same as Above

EQUIPMENT DESCRIPTION:

A/N 530498:

BOILER NO. 1, NEBRASKA, MODEL NO. NB200D, 49,500,000 BTU/HR, WATER TUBE, 39,000 LB/HR STEAM CAPACITY, WITH A LOW-NOX BURNER, INDUSTRIAL COMBUSTION, MODEL NO. NTXL504GS-09S-1, NATURAL GAS FIRED, WITH AMBER 363 STANDBY FUEL, EQUIPPED WITH A FLUE GAS RECIRCULATION SYSTEM, OXYGEN TRIM, AND A 100 HP COMBUSTION AIR BLOWER.

A/N 530499:

BOILER NO. 2, NEBRASKA, MODEL NO. NB200D, 49,500,000 BTU/HR, WATER TUBE, 39,000 LB/HR STEAM CAPACITY, WITH A LOW-NOX BURNER, INDUSTRIAL COMBUSTION, MODEL NO. NTXL504GS-09S-1, NATURAL GAS FIRED, WITH AMBER 363 STANDBY FUEL, EQUIPPED WITH A FLUE GAS RECIRCULATION SYSTEM, OXYGEN TRIM, AND A 100 HP COMBUSTION AIR BLOWER.

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A/N 530500:

AIR POLLUTION CONTROL SYSTEM NO.1 (CONNECTED TO BOILER NO.1 DESCRIBED BY A/N 530498), CONSISTING OF:

1. SELECTIVE CATALYTIC REDUCTION, HALDOR TOPSOE, MODEL NO. DNX-929, TITANIUM DIOXIDE, VANADIUM PENTOXIDE AND TUNGSTEN OXIDE CATALYST MATERIAL, LENGTH: 4 FT 6 IN; WIDTH: 4 FT 6 IN; DEPTH: 1 FT 1 IN; VOLUME: 17.66 CU FT;
2. UREA INJECTION GRID

A/N 530501:

AIR POLLUTION CONTROL SYSTEM NO.1 (CONNECTED TO BOILER NO.2 DESCRIBED BY A/N 530499), CONSISTING OF:

1. SELECTIVE CATALYTIC REDUCTION, HALDOR TOPSOE, MODEL NO. DNX-929, TITANIUM DIOXIDE, VANADIUM PENTOXIDE AND TUNGSTEN OXIDE CATALYST MATERIAL, LENGTH: 4 FT 6 IN; WIDTH: 4 FT 6 IN; DEPTH: 1 FT 1 IN; VOLUME: 17.66 CU FT;
2. UREA INJECTION GRID

A/N 536258

STORAGE TANK NO. 1, UREA, FIXED ROOF, CAPACITY 1,000 GALLONS, DIAMETER 6 FT 5 IN, HEIGHT 6 FT 7 IN,

A/N 536261

STORAGE TANK NO. 2, UREA, FIXED ROOF, CAPACITY 1,000 GALLONS, DIAMETER 6 FT 5 IN, HEIGHT 6 FT 7 IN,

BACKGROUND

LAC+USC Medical Center is a medical facility located in Los Angeles and is a Title V facility which does not participate in the RECLAIM program. The facility is planning to install and operate two new identical natural gas fired boilers each equipped with identical low NOx burners and identical selective catalytic reduction systems. The new boilers will be a replacement for three older boilers which will be decommissioned and removed from service after the new units are brought online. Four applications were submitted for the proposed new construction in addition to an application for the Title V de

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minimis modification, as shown below. The applicant also submitted form 400 XPP and paid the fees for expedited permit processing.

Application	Equipment	Processing Fee	Fee+XPP
530498	Boiler No. 1, 49.5 MMBTU/hr	\$4,636.58	\$6,954.87
530499	Boiler No. 2, 49.5 MMBTU/hr (Identical)	\$2,318.29	\$3,477.44
530500	SCR No. 1	\$3,359.43	\$5,039.15
530501	SCR No. 2 (Identical)	\$1,679.72	\$2,519.58
536258	Urea Storage Tank	\$1,332.65	\$1,998.98
536261	Urea Storage Tank	\$666.33	\$999.50
530502	Title V De Minimis Modification	\$873.58	\$873.58
TOTAL PERMIT PROCESSING FEE			\$21,863.31

COMPLIANCE REVIEW

A review of the District compliance database reveals that there were two NCs (E12397 and E14579) issued to LAC+USC Medical Center on 2/9/2012 and 2/21/2012, respectively. NC E12397 was issued to provide a list of fleet vehicles and to provide information regarding two street sweepers. NC E14579 was issued to submit Appendix G for Rule 2202 plans for the years 2010 and 2011. The AQMD database indicates there are no outstanding NOVs or additional NCs for this facility.

EMISSIONS

Emissions are calculated based on natural gas operation.

Common to both boilers:

Max heat input: 49.5 MMBTU/hr
 Natural gas HHV: 1,020 BTU/scf
 Max natural gas flow rate: 48,529.41 scf/hr

Emission limits for natural gas operation:

NO_x: 5 ppmv (SCR Warranty)
 CO: 50 ppmv (BACT)
 VOC: 5.5 lbs/mmscf (AP-42 limit)
 PM₁₀: 7.6 lbs/mmscf (AP-42 limit)
 SO_x: 0.6 lbs/mmscf (AP-42 limit)
 NH₃: 5 ppmv (BACT)

Use the ppmv to lb/mmscf NO_x conversion factor of 1.28:

MW_{NO_x} = 46 lb/lb-mol
 MW_{CO} = 28 lb/lb-mol

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$MW_{NH_3} = 17 \text{ lb/lb-mol}$

NOx: $1.28 * 5 = 6.4 \text{ lbs/mm scf}$

CO: $1.28(28/46) * 50 = 38.95 \text{ lbs/mm scf}$

NH3: $1.28(17/46) * 5 = 2.37 \text{ lb/mm scf}$

Natural gas combustion emission calculations (24/7 operation):

A/N 530498

Boiler No. 1	NOx	CO	VOC	PM10	SOx	NH3
EF (lbs/mm scf)	6.4	38.95	5.5	7.6	0.6	2.37
Hourly (lbs/hr)	0.311	1.890	0.267	0.369	0.029	0.115
Monthly (lb/month)	226.73	1,379.86	194.85	269.24	21.26	83.96
Yearly (lb/yr)	2,720.75	16,558.33	2,338.15	3,230.89	255.07	1,007.53
Yearly (tons/yr)	1.360	8.279	1.169	1.615	0.128	0.504
30 DA (lbs/day)	7.56	46.00	6.49	8.97	0.71	2.80

A/N 530499

Boiler No. 2	NOx	CO	VOC	PM10	SOx	NH3
EF (lbs/mm scf)	6.4	38.95	5.5	7.6	0.6	2.37
Hourly (lbs/hr)	0.311	1.890	0.267	0.369	0.029	0.115
Monthly (lb/month)	226.73	1,379.86	194.85	269.24	21.26	83.96
Yearly (lb/yr)	2,720.75	16,558.33	2,338.15	3,230.89	255.07	1,007.53
Yearly (tons/yr)	1.360	8.279	1.169	1.615	0.128	0.504
30 DA (lbs/day)	7.56	46.00	6.49	8.97	0.71	2.80

RULE EVALUATION

Rule 212 – Standards for Approving Permits and Issuing Public Notice

The facility is not located within 1,000 feet of a school boundary. The MICR for each individual boiler is less than 1EE-6. The emission increases due to the proposed construction of two boilers are as follows:

Emission Increase (30-day Average, lb/day)

Equipment	NOx	CO	VOC	PM10	SOx
Boiler No. 1	7.56	46.00	6.49	8.97	0.71
Boiler No. 2	7.56	46.00	6.49	8.97	0.71
Facility Total	15.12	92.00	12.98	17.94	1.42

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Rule 212(g) Threshold	40	220	30	30	60
Exceedance (Yes/No)	No	No	No	No	No

The emissions increases are less than the limits specified in Rule 212(g). Therefore a 30 day Public Notice is not required.

Rule 401 – Visible Emissions

Compliance with this rule is expected under normal operation.

Rule 402 – Nuisance

Compliance with this rule is expected under normal operation.

Rule 404 – Particulate Matter – Concentration

This rule limits the PM emissions. Compliance is anticipated.

Rule 407 – Liquid and Gaseous Air Contaminants

This rule limits CO to 2,000 ppmv. Compliance is expected.

Rule 409 – Combustion Contaminants

This rule specifies that PM emissions from combustion shall be less than 0.1 g/scf, corrected to 12% CO₂ concentration. Compliance is anticipated.

Rule 431.1 – Sulfur Content of Gaseous Fuels

Each boiler will be fired exclusively with PUC grade pipeline quality natural gas. The sulfur content of the natural gas meets the criteria specified in this rule. Compliance is anticipated.

Rule 431.2 – Sulfur Content of Liquid Fuels

Each boiler will fire Amber 363 as a standby fuel only, which is expected to comply with the sulfur limit of 15 ppm by weight.

Rule 1146 – NO_x Emissions from Boilers, Steam Generators, and Process Heaters

This rule applies to boilers and heaters whose heat input rates are greater than 5 million BTU per hour. Each boiler has a heat input of 49.5 MMBTU/hr, and each is subject to Rule 1146. Both boilers are Group III units since they are located at a university. The rule requires new Group III units to meet the 9 ppmv NO_x emission limit when firing with natural gas. Major source LAER is 5 ppmv for NO_x. Each boiler is rated greater than 40 MMBTU/hr and therefore each will be required to be equipped with a continuous emission monitoring system (CEMS) for the monitoring and reporting of NO_x emissions. Compliance is expected.

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Regulation XIII – New Source Review

BACT/LAER

LAC+USC Medical Center is a Title V facility and therefore, BACT requirements are satisfied by achieving compliance with federal LAER. A review of the current AQMD BACT/LAER Clearinghouse database indicates that a firetube boiler rated at 16.5 MMBTU/hr was issued a Permit to Construct on 8/29/2002 to Allstyle Dyeing and Finishing under A/N 376152. This boiler is used to provide process steam to an end user similar to the proposed boilers at LAC+USC Medical Center. The permit limits are 5 ppmv for NOx and 50 ppmv for CO and has been in operation since 2001. The boiler was source tested and found to comply with the NOx and CO limits. A second firetube boiler rated at 16.4 MMBTU/hr used for providing process steam was issued a Permit to Construct under A/N 362616 and was also permitted at 5 ppmv NOx and 50 ppmv CO. This boiler has been in operation since 2000 and was source tested in December 2000. The source test results indicated the boiler complies with the NOx and CO limits of 5 ppmv and 50 ppmv at 3% O2. The EPA LAER Clearinghouse database also indicates a number of boilers issued to Harrah's Operating Company with heat input rates between 31 and 35 MMBTU/hr used to provide steam with permit limits for CO between 23-30 ppmv. It was also noted that these compliance limits have been verified. Also, the SCR manufacturer (R.F MacDonald) will guarantee that the boiler emissions will comply with the 5 ppmv NOx and 50 ppmv CO emission limits at 3% O2. Therefore, achieved in practice LAER for this equipment is 5 ppmv NOx and 50 ppmv CO, and a maximum NH3 slip of 5 ppmv. Compliance with the BACT requirements is expected.

MODELING

AQMD Modeling staff has reviewed the modeling results performed by the applicant and has concluded in their memo dated May 29, 2012 that neither boiler will cause a violation, or make significantly worse an existing violation according to Appendix A or other analysis approved by the Executive Officer or designee, of any state or national ambient air quality standards at any receptor location in the District.

OFFSETS

The total emissions from the boilers are:

A/N 530498 (Boiler No. 1)	NOx	CO	VOC	PM10	SOx
PTE (tons/year)	1.36	8.28	1.17	1.62	0.128

A/N 530499 (Boiler No. 2)	NOx	CO	VOC	PM10	SOx
PTE (tons/year)	1.36	8.28	1.17	1.62	0.128

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The facility total emissions are:

Facility Total	NOx	CO	VOC	PM10	SOx
PTE (tons/year)	37.85	167.42	8.30	50.16	261.20

With the addition of each boiler the facility total emissions are:

Facility Total	NOx	CO	VOC	PM10	SOx
PTE (tons/year)	40.57	183.98	10.64	53.40	261.46

The modified facility PTE for NOx, VOC, PM10, and SOx emissions are each over 4 tons per year, and therefore offsets are required for these pollutants. The basin is in attainment for CO and therefore no offsets are required for CO. Although the facility has removed 3 natural gas fired boilers each rated at 82 MMBTU/hr (P/Ns D93521, D93522, and D93523) these boilers were removed from service on 4/29/2011, well before the new applications were filed for the new equipment on 12/20/2011. Consequently LAC+USC Medical Center cannot qualify for the concurrent facility modification exemption in Rule 1304(c)(2). Since the facility is a school as well as a medical center, it qualifies as an Essential Public Service facility as defined by Rule 1302. Consequently it is allowed access to the AQMD's Priority Reserve. The prerequisites are that the facility shall relinquish any existing ERCs, and the equipment shall meet the BACT and BARCT emission limits. The facility will be required to relinquish any ERC holdings it may have prior to accessing the Priority Reserve, and the boilers will comply with the current BACT requirements. Therefore, the required offsets from the Priority Reserve are shown below, at a 1.0 to 1.0 ratio:

A/N 530498 (Boiler No. 1)	NOx	VOC	PM10	SOx
30 Day Average (lb/day)	7.56	6.49	8.97	0.71
Offset Ratio	1.0	1.0	1.0	1.0
Required Offsets (lb/day)	8	7	9	1

A/N 530499 (Boiler No. 2)	NOx	VOC	PM10	SOx
30 Day Average (lb/day)	7.56	6.49	8.97	0.71
Offset Ratio	1.0	1.0	1.0	1.0
Required Offsets (lb/day)	8	7	9	1

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Total Required Offsets	NOx	VOC	PM10	SOx
A/N 530498 (Boiler No. 1)	8	7	9	1
A/N 530499 (Boiler No. 2)	8	7	9	1
Required Offsets (lb/day)	16	14	18	2

Rule 1401 – New Source Review of Toxic Air Contaminants

The impact of toxic air contaminants emissions is analyzed using the AQMD Rule 1401 spreadsheet. A copy of the analysis is included in the application folder. The Tier 3 analysis results for both boilers are:

Parameter	A/N 530498	A/N 530499
MICRr	1.08EE-07	1.08EE-07
MICRc	1.17EE-08	1.17EE-08

The MICR levels for each identical permit unit are below 1 in a million and the total hazard indices for each target organ for each boiler are below 1.0. Cancer burden for each boiler is not computed because the MICRs for each boiler are below 1 in a million. Therefore, the risk level is acceptable and compliance is expected.

Regulation XVII – Prevention of Significant Deterioration (PSD)

This regulation applies to emissions of attainment pollutants, CO and NOx. This regulation is triggered because there are increases of NOx and CO emissions. The requirements are to apply BACT to control CO and NOx emissions. The boilers will comply with the BACT requirements. However, a PSD analysis is not required because the emission increases are below the PSD analysis thresholds (100 tons/year for CO and 40 tons/year for NOx).

Regulation XXX – Title V

LAC+USC Medical Center is currently subject to the Title V requirements. As such, the proposed de minimis modification is subject to a 45-day EPA review and comment period.

NSPS

40 CFR 60 Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

This regulation applies to each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million British thermal units per hour (MMBTU/hr)) or less, but greater than or equal to 2.9 MW (10 MMBTU/hr) which combust coal or any combination of coal and other fuels. Since the boilers will not use coal or any combination of coal or other fuels, this regulation does not apply to the boilers proposed for construction at LAC+USC Medical Center. However, natural gas

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units are required to meet the fuel recordkeeping requirement in 40 CFR 60.48c(g)(2). The boilers will be equipped with totalizing fuel meters and the facility will be required to maintain records of natural gas fuel use.

NESHAPS

40 CFR 63 Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters at Major Sources

This regulation applies to industrial, commercial, or institutional boilers or process heaters as defined in §63.7575 that are located at, or are part of, a major source of HAP as defined in §63.2 or §63.761 (40 CFR part 63, subpart HH, National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities), except as specified in §63.7491. The AQMD database indicates that LAC+USC Medical Center emitted the following HAPs for the 2011 compliance year as shown below. The annual emissions are in lb/year:

Pollutant ID	Pollutant Description	Annual Emissions
106990	1,3-Butadiene	2.056
75070	Acetaldehyde	8.818
107028	Acrolein	1.547
7664417	Ammonia	8203.574
7440382	Arsenic	0.015
71432	Benzene	4.398
7440439	Cadmium	0.014
18540299	Chromium (VI)	0.000
7440508	Copper	0.038
9901	Diesel engine exhaust, particulate matter	316.910
100414	ETHYL BENZENE	3.238
50000	Formaldehyde	430.107
110543	HEXANE	2.344
7647010	Hydrochloric acid	1.762
7439921	Lead (inorganic)	0.078
7439965	Manganese	0.029
7439976	Mercury	0.018
91203	Naphthalene	0.322
7440020	Nickel	0.036
1151	PAHs, total, with components not reported	0.387
7782492	Selenium	0.020
108883	Toluene	13.039
1330207	Xylenes	9.353

The total HAPs emissions are 8,998.093 lb/year * 1 ton/2,000 lb = 4.4991 TPY.

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Parameter	HAP Emissions, (TPY)
Facility Total	4.4991
Boiler No. 1	0.1130
Boiler No. 2	0.1130
New Facility Total	4.7250

The total combined HAP emissions at LAC+USC Medical Center are < 25 TPY, and the emissions of any single HAP at LAC+USC Medical Center is < 10 TPY. Therefore, the facility is not a major source of HAPs and this regulation does not apply to the boilers proposed for construction at LAC+USC Medical Center.

40 CFR 63 Subpart JJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers at Area Sources

The definition of gas fired boiler in 40 CFR 63.11236 includes any boiler that burns gaseous fuels not combined with solid fuels, burns liquid fuel only during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours in any calendar year. Both boilers will be fired on natural gas fuel and periodic testing on fuel oil will occur 1/2 hour on a monthly basis. Therefore, pursuant to 40 CFR 63.11195(e), boilers No. 1 and 2 are not subject to the NESHAP – 40 CFR 63 Subpart JJJJJ because they meet the definition of a gas fired boiler in 40 CFR 63.11236.

RECOMMENDATION

Issue Permits to Construct for each boiler with the following conditions.

CONDITIONS

Boilers 1&2 (A/N's 530498 & 530499)

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1146, INCLUDING THE SOURCE TESTING REQUIREMENTS OF RULE 1146(D)(6) AND (8).
[RULE 1146]
4. THIS BOILER SHALL NOT EMIT MORE THAN 5 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO2, AND NOT MORE THAN 50 PPM OF CARBON MONOXIDE (CO), AND

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NOT MORE THAN 5 PPMV OF AMMONIA, ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.
[RULE 1146, RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT]

5. THIS BOILER SHALL BE FIRED WITH NATURAL GAS AND ONLY USE FUEL OIL DURING MAINTENANCE TESTING (NOT TO EXCEED ½ HOUR PER MONTH), SOURCE TESTING, OR PERIODS OF NATURAL GAS CURTAILMENT.
[RULE 1146, RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT, 40 CFR 60.48c(g)(2)]

6. THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WITHIN ONE MINUTE AFTER THE MAIN FLAME IS ESTABLISHED. THE OXIDES OF NITROGEN CONCENTRATIONS IN THE FLUE GAS SHALL NOT EXCEED 5 PPM WHEN THE BOILER IS FIRED ON NATURAL GAS AND 40 PPM WHEN THE BOILER IS FIRED ON FUEL OIL, ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O₂ AND AVERAGED OVER A MINIMUM OF 15 CONSECUTIVE MINUTES.
[RULE 1146, RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT]

7. THE OPERATOR SHALL USE ONLY LOW SULFUR FUEL IN THIS EQUIPMENT WITH A SULFUR CONTENT OF 15 PPM OR LESS BY WEIGHT.
[RULE 431.2, 40 CFR 60.42c(d)]

8. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
 - A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 DAYS AFTER INITIAL START-UP UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
 - B. THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NOX AND CO EMISSION LIMITS SPECIFIED IN CONDITION NO. 4.
 - C. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS FIRING AT MAXIMUM, AVERAGE, AND MINIMUM FIRING RATES.
 - D. WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) AT LEAST 10 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.
 - E. TWO COMPLETE COPIES OF THE SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT WITHIN 30 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO EMISSIONS RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE HEATER, 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 ACTUAL CUBIC FEET PER MINUTE (ACFM).
 - II. THE FIRING RATES, IN BTU PER HOUR.
 - III. THE EXHAUST TEMPERATURE, IN DEGREES FAHRENHEIT.

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- IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT.
- V. THE FUEL FLOW RATE.

- F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
- G. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES PURSUANT TO RULE 217. [RULE 1146, RULE 1303(B)(2)-OFFSET, RULE 1303(A)(1)-BACT]
- 9. THIS BOILER SHALL ONLY VENT TO SELECTIVE CATALYTIC REDUCTION (SCR) UNITS THAT ARE IN FULL OPERATION AND WHICH HAVE BEEN ISSUED PERMITS TO CONSTRUCT/OPERATE BY THE EXECUTIVE OFFICER.

PERIODIC MONITORING

- 10. 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 FUEL OIL, 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 LASTS 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 3 BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

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

- A. STACK OR EMISSION POINT IDENTIFICATION;
 - B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
 - C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
 - D. VISIBLE EMISSION OBSERVATION RECORD BY A CERTIFIED SMOKE READER.
- [RULE 3004(A)(4)]

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

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

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

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

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

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

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

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

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

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

B. MONTHLY AND ANNUAL NATURAL GAS FUEL USE IN SCF
[40 CFR 60.48c(g)(2)]

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13. THIS BOILER SHALL BE EQUIPPED WITH A NON-RESETTABLE, TOTALIZING FLOW METER FOR NATURAL GAS AND FUEL OIL.
[RULE 3004(a)(4), 40 CFR 60.48c(g)(2)]

14. THE OPERATOR SHALL INSTALL AND MAINTAIN A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) TO MEASURE THE EMISSIONS OF OXIDES OF NITROGEN (NOX). THE CEMS SHALL MEASURE THE NO_x CONCENTRATION IN PPMV AND SHALL BE CORRECTED TO 3% OXYGEN ON A DRY BASIS. THE CEMS SHALL BE INSTALLED AND OPERATED NO LATER THAN 90 DAYS AFTER INITIAL START-UP OF THE BOILER AND IN ACCORDANCE WITH APPROVED AQMD RULE 218 CEMS PLAN APPLICATION. THE OPERATOR SHALL NOT INSTALL THE CEMS PRIOR TO RECEIVING INITIAL WRITTEN APPROVAL FROM THE AQMD. WITHIN TWO WEEKS OF THE INITIAL START UP OF THE BOILER, THE OPERATOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE DISTRICT OF THE EXACT DATE OF START-UP. THE CEMS SHALL BE INSTALLED AND OPERATED TO MEASURE THE NO_x CONCENTRATIONS OVER A 15 MINUTE AVERAGING TIME PERIOD.
[RULE 218]

EMISSIONS AND REQUIREMENTS

15. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - NOX: 5 PPMV, RULE 1303(a)(1) – BACT; RULE 1146 (USING NATURAL GAS)
 - NOX: 40 PPMV, RULE 1146 (USING FUEL OIL)
 - CO: 50 PPMV, RULE 1303(a)(1) – BACT
 - CO: 400 PPMV, RULE 1146
 - CO: 2,000 PPMV, RULE 407
 - PM: 0.1 GR/DSCF, RULE 409

SCRs 1&2 (A/N's 530500 & 530501)

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

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

3. THIS EQUIPMENT SHALL NOT EMIT MORE THAN 5 PPM OF AMMONIA, MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES.
[RULE 1303(A)(1)-BACT]

4. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:

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- A. THE TEST SHALL BE CONDUCTED AND THE RESULTS SUBMITTED TO THE DISTRICT WITHIN 45 DAYS AFTER THE TEST DATE. THE DISTRICT SHALL BE NOTIFIED OF THE DATE AND TIME OF THE TEST AT LEAST 7 DAYS PRIOR TO THE TEST.
- B. THE TEST SHALL BE CONDUCTED AT LEAST QUARTERLY DURING THE FIRST TWELVE MONTHS OF OPERATION AND AT LEAST ANNUALLY THEREAFTER. THE NOX CONCENTRATION AS DETERMINED BY THE CEMS, SHALL BE SIMULTANEOUSLY RECORDED DURING THE AMMONIA SLIP TEST. IF THE CEMS IS INOPERABLE, A TEST SHALL BE CONDUCTED TO DETERMINE THE NOX EMISSIONS USING DISTRICT METHOD 100.1 MEASURED OVER A 60 MINUTE AVERAGING TIME PERIOD. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 DAYS AFTER INITIAL START-UP UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
- C. THE TESTS SHALL BE CONDUCTED TO DETERMINE COMPLIANCE WITH THE RULE 1303 BACT CONCENTRATION LIMIT.
[RULE 1303(A)(1)-BACT]
5. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE TO ACCURATELY INDICATE THE TEMPERATURE OF THE EXHAUST AT THE INLET TO THE SCR REACTOR. THE MEASURING DEVICE OR GAUGE SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT. IT SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED. THE SELECTIVE CATALYTIC REDUCTION (SCR) TEMPERATURE RANGE SHALL REMAIN BETWEEN 400 DEGREES FAHRENHEIT AND 691 DEGREES FAHRENHEIT.
[RULE 1303(A)(1)-BACT]
6. THE OPERATOR SHALL INSTALL AND MAINTAIN A FLOW METER TO ACCURATELY INDICATE THE FLOW RATE OF THE TOTAL HOURLY THROUGHPUT OF INJECTED AMMONIA. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED. THE MEASURING DEVICE OR GAUGE SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT. IT SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. THE AMMONIA INJECTION RATE SHALL NOT EXCEED 1.0 GALLONS/HR
[RULE 1303(A)(1)-BACT]
7. THE OPERATOR SHALL INSTALL AND MAINTAIN A PRESSURE GAUGE TO ACCURATELY INDICATE THE DIFFERENTIAL PRESSURE ACROSS THE SCR CATALYST BED IN INCHES OF WATER COLUMN. THE MEASURING DEVICE OR GAUGE SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT. IT SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED. THE PRESSURE DROP ACROSS THE CATALYST SHALL NOT EXCEED 4.0 INCHES OF WATER COLUMN.
[RULE 1303(A)(1)-BACT]

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EMISSIONS AND REQUIREMENTS

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

NH3: 5 PPMV
[RULE 1303(a)(1) – BACT]

Urea Storage Tanks (A/N 536258 & 536261)

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]