



# South Coast Air Quality Management District

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

January 25, 2012

Mr. Douglas Budd  
Plant Operations Manager  
Long Beach Memorial Medical Center  
2801 Atlantic Ave.  
Long Beach, CA 90806

**SUBJECT:** Title V Facility Permit Revision (Facility ID: 14213)

Dear Mr. Budd:

Please find attached the revised Title Page, Table of Contents, and Section D of your Title V Facility Permit. The revised sections reflect the approval of the permit revision requested in your Application No. 526281. The proposed permit revision was submitted to EPA for 45-day review on November 15, 2011, and no comments were received. This permit revision includes the modification for new Low NOx burner installation on Boilers 1, 2, and 3 as follows:

Equipment	Application No.	Permit Type
Boiler 1	526278	PC
Boiler 2	526279	PC
Boiler 3	525729	PC

Please review the attached sections carefully. Insert the enclosed sections into your Title V Facility Permit and discard the earlier versions. Questions concerning changes to your permit should be directed to Mr. Chris Perri at (909) 396-2696.

Sincerely,

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

BLY:AYLJTY  
Attachment

cc: Gerardo Rios, EPA Region IX



## FACILITY PERMIT TO OPERATE

**LONG BEACH MEMORIAL MEDICAL CENTER  
2801 ATLANTIC AVE  
LONG BEACH, CA 90806**

### NOTICE

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

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

Barry R. Wallerstein, D. Env.  
EXECUTIVE OFFICER

By 

Mohsen Nazemi, P.E.  
Deputy Executive Officer  
Engineering & Compliance



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

TABLE OF CONTENTS

Section	Description	Revision #	Date Issued
A	Facility Information	2	10/26/2011
B	RECLAIM Annual Emission Allocation	1	10/26/2011
C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	4	01/25/2012
E	Administrative Conditions	1	10/26/2011
F	RECLAIM Monitoring and Source Testing Requirements	1	10/26/2011
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	1	10/26/2011
H	Permit To Construct and Temporary Permit to Operate	0	04/27/2005
I	Compliance Plans & Schedules	1	10/26/2011
J	Air Toxics	1	10/26/2011
K	Title V Administration	1	10/26/2011
Appendix			
A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	1	10/26/2011
B	Rule Emission Limits	1	10/26/2011



---

**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL 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.



## FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

### 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
189297	D10829	ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL
222052	D61318	BOILER, NAT GAS & OIL, > 5=20 MM BTU/HR
222053	D61319	BOILER, NAT GAS & OIL, > 5=20 MM BTU/HR
222054	D61321	BOILER, NAT GAS & OIL, > 5=20 MM BTU/HR
287673	D78999	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
287674	D79000	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
287675	D79001	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
287677	D79002	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
287678	D79003	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
305182	D92304	ETHYLENE OXIDE STERILIZER
305183	D92305	ETHYLENE OXIDE STERILIZER
305184	D92306	ETHYLENE OXIDE STERILIZER
305185	D92307	ETHYLENE OXIDE STERILIZER
305186	D92308	AIR POLLUTION CONTROL SYSTEM-CATALYTIC OXIDIZER
305187	D92309	AIR POLLUTION CONTROL SYSTEM-CATALYTIC OXIDIZER
322832	F10118	STEAM CLEANER, DIESEL
349892	F19420	ICE (>500 BHP), EM ELECTRICAL, GEN, DIESEL
349893	F19419	ICE (>500 BHP), EM ELECTRICAL, GEN, DIESEL
349894	F19421	ICE (>500 BHP), EM ELECTRICAL, GEN, DIESEL
482039	F98634	ICE (>500 BHP), EM ELECTRICAL, GEN, DIESEL
483304	F98635	ICE (50-500 BHP), EM ELECTRICAL, GEN, DIESEL
494126	G4482	ICE (>500 BHP), EM ELECTRICAL, GEN, DIESEL
494131	G4483	ICE (>500 BHP), EM ELECTRICAL, GEN, DIESEL
525279		BOILER, NAT GAS & OIL, > 5=20 MM BTU/HR
526278		BOILER, NAT GAS & OIL, > 5=20 MM BTU/HR
526279		BOILER, NAT GAS & OIL, > 5=20 MM BTU/HR



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

Section D Page 3  
Facility I.D. #: 014213  
Revision #: 4  
Date: January 25, 2012

---

**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

---

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



## FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

### 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 ONLY USE DIESEL FUEL WITH A SULFUR CONTENT THAT DOES NOT EXCEED 15 PPM BY WEIGHT, UNLESS THE OPERATOR DEMONSTRATES IN WRITING TO THE EXECUTIVE OFFICER THAT SPECIFIC ADDITIONAL TIME IS NECESSARY.  
[RULE 431.2]
3. THIS FACILITY SHALL SUBMIT A RULE 1472 COMPLIANCE PLAN ON OR BEFORE JANUARY 1, 2011.  
[RULE 1472]



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D10829  
A/N 189297**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CATERPILLAR, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 3412TA, DIESEL-FUELED, 12 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 895 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. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]
6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]



---

**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

---

7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.  
[RULE 1470, RULE 431.2]
8. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES  
RETARDED RELATIVE TO STANDARD TIMING.  
[RULE 1110.2]

**Emissions And Requirements:**

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

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D61318  
A/N 222052**

**Equipment Description:**

BOILER, NO. 1, BABCOCK AND WILCOX, WATER TUBE TYPE, NATURAL GAS OR FUEL OIL FIRED, COEN, MODEL SDAF-14 LOW NO<sub>x</sub> BURNER, 19,860,000 BTU PER HOUR WITH A 7-1/2 H.P. COMBUSTION AIR BLOWER AND AN INDUCED FLUE GAS RECIRCULATION SYSTEM.

**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 FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WHENEVER THE BOILER IS IN OPERATION.  
[RULE 1146]
4. THIS BOILER SHALL BE OPERATED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF RULE 1146.  
[RULE 1146]
5. THIS BOILER SHALL BE FIRED WITH NATURAL GAS ONLY, EXCEPT DURING AN EMERGENCY AND REQUIRED TESTING AT WHICH FUEL OIL MAY BE USED.  
[RULE 1146]
6. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL, AND RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE A YEAR, ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ASSURE ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME BURNER FIRING RATE.  
[RULE 1146]
7. THE OWNER OR OPERATOR OF THIS BOILER SHALL MAINTAIN ALL BOILER TUNE-UP RECORDS, AS SPECIFIED IN CONDITION NO. 6 ABOVE FOR A PERIOD OF AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1146]



## FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

8. THE EMISSIONS FROM THIS BOILER SHALL NOT EXCEED BY VOLUME ON A DRY BASIS AT 3% O<sub>2</sub>, AVERAGED OVER 15 CONSECUTIVE MINUTES:
- A. 400 PPM OF CARBON MONOXIDE.
  - B. 30 PPM OF OXIDES OF NITROGEN WHEN FIRING NATURAL GAS.
  - C. 40 PPM OF OXIDES OF NITROGEN WHEN FIRING FUEL OIL.
- [RULE 1146]

### Periodic Monitoring:

9. 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)]
10. 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)]
11. 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.



---

**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

---

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

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

**Emissions And Requirements:**

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

NOx: 30 PPMV, RULE 1146, WHEN FIRING NATURAL GAS  
NOx: 40 PPMV, RULE 1146, WHEN FIRING FUEL OIL  
CO: 400 PPMV, RULE 1146  
CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D61319  
A/N 222053**

**Equipment Description:**

BOILER, NO. 2, BABCOCK AND WILCOX, WATER TUBE TYPE, NATURAL GAS OR FUEL OIL FIRED, COEN, MODEL SDAF-14 LOW NO<sub>x</sub> BURNER, 19,860,000 BTU PER HOUR WITH A 7-1/2 H.P. COMBUSTION AIR BLOWER AND AN INDUCED FLUE GAS RECIRCULATION SYSTEM.

**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 FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WHENEVER THE BOILER IS IN OPERATION.  
[RULE 1146]
4. THIS BOILER SHALL BE OPERATED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF RULE 1146.  
[RULE 1146]
5. THIS BOILER SHALL BE FIRED WITH NATURAL GAS ONLY, EXCEPT DURING AN EMERGENCY AND REQUIRED TESTING AT WHICH FUEL OIL MAY BE USED.  
[RULE 1146]
6. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL, AND RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE A YEAR, ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ASSURE ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME BURNER FIRING RATE.  
[RULE 1146]
7. THE OWNER OR OPERATOR OF THIS BOILER SHALL MAINTAIN ALL BOILER TUNE-UP RECORDS, AS SPECIFIED IN CONDITION NO. 6 ABOVE FOR A PERIOD OF AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1146]



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

8. THE EMISSIONS FROM THIS BOILER SHALL NOT EXCEED BY VOLUME ON A DRY BASIS AT 3% O<sub>2</sub>, AVERAGED OVER 15 CONSECUTIVE MINUTES:
- A. 400 PPM OF CARBON MONOXIDE.
  - B. 30 PPM OF OXIDES OF NITROGEN WHEN FIRING NATURAL GAS.
  - C. 40 PPM OF OXIDES OF NITROGEN WHEN FIRING FUEL OIL.
- [RULE 1146]

**Periodic Monitoring:**

9. 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)]
10. 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)]
11. 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.



## FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

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

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a) (4)]

### Emissions And Requirements:

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

NO<sub>x</sub>: 30 PPMV, RULE 1146, WHEN FIRING NATURAL GAS  
NO<sub>x</sub>: 40 PPMV, RULE 1146, WHEN FIRING FUEL OIL.  
CO: 400 PPMV, RULE 1146  
CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D61321  
A/N 222054**

**Equipment Description:**

BOILER NO. 3, BABCOCK AND WILCOX, WATER TUBE TYPE, NATURAL GAS OR FUEL OIL FIRED, COEN, MODEL SDAF-18 LOW NO<sub>x</sub> BURNER, 25,700,000 BTU PER HOUR WITH A 7-1/2 H.P. COMBUSTION AIR BLOWER AND AN INDUCED FLUE GAS RECIRCULATION SYSTEM.

**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 FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WHENEVER THE BOILER IS IN OPERATION.  
[RULE 1146]
4. THIS BOILER SHALL BE OPERATED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF RULE 1146.  
[RULE 1146]
5. THIS BOILER SHALL BE FIRED WITH NATURAL GAS ONLY, EXCEPT DURING AN EMERGENCY AND REQUIRED TESTING AT WHICH FUEL OIL MAY BE USED.  
[RULE 1146]
6. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL, AND RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE A YEAR, ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ASSURE ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME BURNER FIRING RATE.  
[RULE 1146]
7. THE OWNER OR OPERATOR OF THIS BOILER SHALL MAINTAIN ALL BOILER TUNE-UP RECORDS, AS SPECIFIED IN CONDITION NO. 6 ABOVE FOR A PERIOD OF AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1146]



## FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

8. THE EMISSIONS FROM THIS BOILER SHALL NOT EXCEED BY VOLUME ON A DRY BASIS AT 3% O<sub>2</sub>, AVERAGED OVER 15 CONSECUTIVE MINUTES:
- A. 400 PPM OF CARBON MONOXIDE.
  - B. 30 PPM OF OXIDES OF NITROGEN WHEN FIRING NATURAL GAS.
  - C. 40 PPM OF OXIDES OF NITROGEN WHEN FIRING FUEL OIL.
- [RULE 1146]

### Periodic Monitoring:

9. 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)]
10. 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)]
11. 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.



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

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

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

**Emissions And Requirements:**

- 12. IF THIS BOILER BURNS MORE THAN 200,000,000,000 (200 BILLION) BTUS OF FUEL IN ANY ONE CALENDAR YEAR, THE BOILER OPERATOR SHALL INSTALL AND OPERATE BY MARCH 1 OF THE FOLLOWING YEAR, AN OXIDES OF NITROGEN CONTINUOUS EMISSION MONITORING SYSTEM THAT IS APPROVED BY THE EXECUTIVE OFFICER IN ACCORDANCE WITH RULE 218(b) AND SHALL CONTINUE TO OPERATE IT FOR THE LIFE OF THE BOILER.  
[RULE 1146, 218(b)]
- 13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
  - NOx: 30 PPMV, RULE 1146, WHEN FIRING NATURAL GAS
  - NOx: 40 PPMV, RULE 1146, WHEN FIRING FUEL OIL.
  - CO: 400 PPMV, RULE 1146
  - CO: 2000 PPMV, RULE 407
  - PM: 0.1 GR/SCF, RULE 409



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D78999  
A/N 287673**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. KTA19-G3, SERIAL NO. D930505842, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 685 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. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]

7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.  
[RULE 1470, RULE 431.2]

**Emissions And Requirements:**

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

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D79000  
A/N 287674**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. NTA855-G3, SERIAL NO. D930504735, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 535 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. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]



---

**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

---

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
  
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.  
[RULE 1470, RULE 431.2]

**Emissions And Requirements:**

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

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D79001  
A/N 287675**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. NTA855-G3, SERIAL NO. D930504736, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 535 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. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]



---

**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

---

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
  
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.  
[RULE 1470, RULE 431.2]

**Emissions And Requirements:**

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D79002  
A/N 287677**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. NTA855-G3, SERIAL NO. D930504733, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 535 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. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]



---

**FACILITY PERMIT TO OPERATE**  
**LONG BEACH MEMORIAL MEDICAL CENTER**

---

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
  
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.  
[RULE 1470, RULE 431.2]

**Emissions And Requirements:**

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D79003  
A/N 287678**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. NTA855-G3, SERIAL NO. D930504734, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 535 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. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.  
[RULE 1470, RULE 431.2]

**Emissions And Requirements:**

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D92304  
A/N 305182**

**Equipment Description:**

STERILIZER/AERATOR, ETHYLENE OXIDE, AMSCO, MODEL NO. 3017, 1'-3" W. X 2'-8" L. X 1'-5" H. INTERNAL DIMENSION, WITH A COMPRESSED-AIR VENTURI EVACUATION SYSTEM.

**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 PROCESS MORE THAN 1 LOAD IN ANY ONE DAY.  
[RULE 1401]
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 BATCHES 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:

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D92305  
A/N 305183**

**Equipment Description:**

STERILIZER/AERATOR, ETHYLENE OXIDE, AMSCO, MODEL NO. 3017, 1'-3" W. X 2'-8" L. X 1'-5" H. INTERNAL DIMENSION, WITH A COMPRESSED-AIR VENTURI EVACUATION SYSTEM.

**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 PROCESS MORE THAN 1 LOAD IN ANY ONE DAY.  
[RULE 1401]
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 BATCHES 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:

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



## FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

### PERMIT TO OPERATE

Permit No. D92306  
A/N 305184

#### Equipment Description:

STERILIZER/AERATOR, ETHYLENE OXIDE, AMSCO, MODEL NO. 3017, 1'-3" W. X 2'-8' L. X 1'-5" H. INTERNAL DIMENSION, WITH A COMPRESSED-AIR VENTURI EVACUATION SYSTEM.

#### 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 PROCESS MORE THAN 1 LOAD IN ANY ONE DAY.  
[RULE 1401]
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 BATCHES 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:

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D92307  
A/N 305185**

**Equipment Description:**

STERILIZER/AERATOR, ETHYLENE OXIDE, AMSCO, MODEL NO. 3017, 1'-3" W. X 2'-8" L. X 1'-5" H. INTERNAL DIMENSION, WITH A COMPRESSED-AIR VENTURI EVACUATION SYSTEM.

**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 PROCESS MORE THAN 1 LOAD IN ANY ONE DAY.  
[RULE 1401]
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 BATCHES 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:

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D92308  
A/N 305186**

**Equipment Description:**

**AIR POLLUTION CONTROL SYSTEM CONSISTING OF:**

1. CATALYTIC OXIDIZER (ETO ABATOR), DONALDSON, 2'-0" W. X 3'-2" L. X 2'-4" H. INTERNAL DIMENSIONS, WITH A PREFILTER, AN ELECTRIC HEATER, AND A HOPCALITE CATALYST BED.
2. EXHAUST SYSTEM WITH A BLOWER, 50 SCFM, VENTING TWO ETHYLENE OXIDE STERILIZERS.

**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 OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT ANNUAL SOURCE TESTS PER AQMD RULE 1405(d) (6).  
[RULE 1405]
4. 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:

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. D92309  
A/N 305187**

**Equipment Description:**

**AIR POLLUTION CONTROL SYSTEM CONSISTING OF:**

1. CATALYTIC OXIDIZER (ETO ABATOR), DONALDSON, 2'-0" W. X 3'-2" L. X 2'-4" H. INTERNAL DIMENSIONS, WITH A PREFILTER, AN ELECTRIC HEATER, AND A HOPCALITE CATALYST BED.
2. EXHAUST SYSTEM WITH A BLOWER, 50 SCFM, VENTING TWO ETHYLENE OXIDE STERILIZERS.

**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 OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT ANNUAL SOURCE TESTS PER AQMD RULE 1405(d) (6).  
[RULE 1405]
4. 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:

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. F10118  
A/N 322832**

**Equipment Description:**

**STEAM CLEANING UNIT CONSISTING OF:**

1. BOILER, HOTSY EQUIPMENT COMPANY, PORTABLE, STEAM CLEANING, MODEL NO. 1240, 420,000 BTU/HR, FUEL OIL.
2. INTERNAL COMBUSTION ENGINE, VANGUARD, 9 HP, DRIVING A 4 GPM PUMP, GASOLINE.

**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 MORE THAN 4 HOURS IN ANY ONE CALENDAR DAY.  
[RULE 1303(a) (1)-BACT]
- 4) AN EQUIPMENT 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 TWO YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1303(a) (1)-BACT]

**Emissions And Requirements:**

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

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. F19420  
A/N 349892**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. KTA19-G3, SERIAL NO. 1980801991, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 685 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. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]



---

**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

---

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]

7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.  
[RULE 1470, RULE 431.2]

**Emissions And Requirements:**

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

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. F19419  
A/N 349893**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. KTA19-G3, SERIAL NO. I980801990, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 685 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. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]



---

**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

---

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
  
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.  
[RULE 1470, RULE 431.2]

**Emissions And Requirements:**

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. F19421  
A/N 349894**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. KTA19-G3, SERIAL NO. 1980801992, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 685 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. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]



## FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.  
[RULE 1470, RULE 431.2]

**Emissions And Requirements:**

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. F98634  
A/N 482039**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CATERPILLAR, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 3412 C DITA, SERIAL NO. 81Z09207, DIESEL-FUELED, 12 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 890 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. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.  
[RULE 1470, RULE 431.2]

**Emissions And Requirements:**

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. F98635  
A/N 483304**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, ISUZU, EMERGENCY ELECTRICAL GENERATION, MODEL NO. BB-4JG1T, DIESEL-FUELED, 4 CYLINDERS, TURBOCHARGED, 65 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. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.  
[RULE 1110.2, RULE 1304 (a)]



## FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

6. OPERATION OF THE ENGINE BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.  
[RULE 1304 (a)]
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.  
[RULE 1470, RULE 431.2]

### Emissions And Requirements:

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. G4482  
A/N 494126**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. QST30-G5, DIESEL-FUELED, 12 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 1,490 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. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR IN CASE OF AN EMERGENCY.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. THE ENGINES OPERATING UNDER APPLICATION NUMBERS 494126 AND 494131 SHALL NOT BE OPERATED MORE THAN COMBINED 31 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES AND NO MORE THAN 2.58 HOURS IN ANY ONE CALENDAR MONTH FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1304 (a)]
6. A CHART RECORDER SHALL BE INSTALLED AND MAINTAINED TO RECORD THE DATE AND TIME THE ENGINES OPERATING UNDER APPLICATION NUMBERS 494126 AND 494131 ARE OPERATED FOR MAINTENANCE AND TESTING IN A CALENDAR MONTH. THE RECORDS SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 1110.2, RULE 1304 (a), RULE 1470]



## FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

7. ON OR BEFORE JANUARY 15TH OF EACH YEAR THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG:

- A. THE TOTAL HOURS OF ENGINE OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND
- B. THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.

ENGINE OPERATION LOG(S) SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.

[RULE 1110.2, RULE 1304 (a)]

8. THE OPERATOR SHALL KEEP A LOG OF ENGINE OPERATIONS DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND THE SPECIFIC REASON FOR OPERATION AS:

- A. EMERGENCY USE
- B. MAINTENANCE AND TESTING
- C. OTHER (BE SPECIFIC).

IN ADDITION, FOR EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF ENGINE OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND THE END OF THE OPERATION.

[RULE 1110.2, RULE 1304 (a)]

9. OPERATION OF THE ENGINES OPERATING UNDER APPLICATION NUMBERS 494126 & 494131 BEYOND THE 31 HOURS PER YEAR COMBINED ALLOTTED FOR ENGINES MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.

[RULE 1304 (a)]

10. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.

[RULE 1470, RULE 431.2]

11. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.

[RULE 1110.2, RULE 1304 (a)]



---

**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

---

**Emissions And Requirements:**

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

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO OPERATE**

**Permit No. G4483  
A/N 494131**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. QST30-G5, DIESEL-FUELED, 12 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 1,490 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. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR IN CASE OF AN EMERGENCY.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. THE ENGINES OPERATING UNDER APPLICATION NUMBERS 494126 AND 494131 SHALL NOT BE OPERATED MORE THAN COMBINED 31 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES AND NO MORE THAN 2.58 HOURS IN ANY ONE CALENDAR MONTH FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, RULE 1304 (a)]
6. A CHART RECORDER SHALL BE INSTALLED AND MAINTAINED TO RECORD THE DATE AND TIME THE ENGINES OPERATING UNDER APPLICATION NUMBERS 494126 AND 494131 ARE OPERATED FOR MAINTENANCE AND TESTING IN A CALENDAR MONTH. THE RECORDS SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1110.2, RULE 1304 (a), RULE 1470]



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

7. ON OR BEFORE JANUARY 15TH OF EACH YEAR THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG:
- A. THE TOTAL HOURS OF ENGINE OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND
  - B. THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.

ENGINE OPERATION LOG(S) SHALL BE RETAINED ON SITE FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.

[RULE 1110.2, RULE 1304 (a)]

8. THE OPERATOR SHALL KEEP A LOG OF ENGINE OPERATIONS DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND THE SPECIFIC REASON FOR OPERATION AS:
- A. EMERGENCY USE
  - B. MAINTENANCE AND TESTING
  - C. OTHER (BE SPECIFIC).

IN ADDITION, FOR EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF ENGINE OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND THE END OF THE OPERATION.

[RULE 1110.2, RULE 1304 (a)]

9. OPERATION OF THE ENGINES OPERATING UNDER APPLICATION NUMBERS 494126 & 494131 BEYOND THE 31 HOURS PER YEAR COMBINED ALLOTTED FOR ENGINES MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.

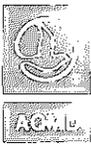
[RULE 1304 (a)]

10. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.

[RULE 1470, RULE 431.2]

11. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO SO BY THE UTILITY OR THE GRID OPERATOR.

[RULE 1110.2, RULE 1304 (a)]



---

**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

---

**Emissions And Requirements:**

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

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL 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 REGULATIONS:

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



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO CONSTRUCT**

A/N 526278

**Equipment Description:**

MODIFICATION OF:

BOILER NO. 1, BABCOCK AND WILCOX, WATER TUBE TYPE, NATURAL GAS OR FUEL OIL FIRED, COEN, MODEL SDAF-14 LOW NOX BURNER, 19,860,000 BTU PER HOUR, WITH A 7 ½ HP COMBUSTION AIR BLOWER, AND AN INDUCED DRAFT FLUE GAS RECIRCULATION SYSTEM.

OPERATING UNDER P/O D61318

BY REMOVAL OF THE COEN BURNER AND INSTALLATION OF A POWER FLAME NOVA PLUS LOW NOX BURNER, MODEL NVC-10-GO-30, RATED AT 19,860,000 BTU/HR.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH 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.  
[RULE 1146]
4. THIS EQUIPMENT SHALL BE FIRED ON NATURAL GAS ONLY, LOW NITROGEN FUEL OIL WITH LESS THAN 0.01% NITROGEN AND SULFUR CONTENT WHICH MEETS THE RULE 431.2 LIMIT, MAY BE FIRED DURING PERIODS OF FORCED MAJEURE GAS CURTAILMENTS, DURING MAINTENANCE TESTING OF THE BURNER NOT TO EXCEED 30 MINUTES PER MONTH OR DURING COMPLIANCE TESTING.  
[RULE 1303(a)]
5. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR FUEL AND RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THE AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE PER YEAR, ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ASSURE ITS ABILITY TO REPEAT THE PERFORMANCE AT THE SAME BURNER FIRING RATE. THE OWNER OR OPERATOR OF THIS BOILER SHALL MAINTAIN ALL BOILER TUNE UP RECORDS FOR A PERIOD OF AT LEAST FIVE YEARS AND THE RECORDS SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1146]



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

6. THE EMISSIONS FROM THIS BOILER SHALL NOT EXCEED BY VOLUME ON A DRY BASIS AT 3% O<sub>2</sub>, AVERAGED OVER 15 CONSECUTIVE MINUTES:
  - A. UNTIL DECEMBER 31, 2012 - 30 PPM NOX WHEN FIRING NATURAL GAS
  - B. BEGINNING JANUARY 1, 2013 - 9 PPM NOX WHEN FIRING NATURAL GAS
  - C. 40 PPM NOX WHEN FIRING FUEL OIL
  - D. 400 PPM CARBON MONOXIDE WHEN FIRING NATURAL GAS OR FUEL OIL[RULE 1146]
7. THE BURNER SHALL NOT FIRE ON LESS THAN 1667 SCF/HR OF NATURAL GAS DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.  
[RULE 1146]
8. THE OPERATOR SHALL INSTALL A FLOW METER TO ACCURATELY INDICATE THE FLOW RATE OF THE GAS AND SHALL RECORD THE HOURLY GAS BEING FIRED IN THE BOILER. THE MEASURING DEVICE SHALL CONTINUOUSLY MEASURE THE FLOW RATE AND SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT AND SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. CALIBRATION RECORDS AND HOURLY FLOW RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1146]
9. THE OPERATOR SHALL PERFORM PERIODIC EMISSION TESTS ON THE BOILER WITH A PORTABLE ANALYZER IN ACCORDANCE WITH THE SCHEDULE AND SPECIFICATIONS OUTLINED IN RULE 1146.  
[RULE 1146]
10. THE OPERATOR SHALL CONDUCT A SOURCE TEST ON THE BOILER UNDER THE FOLLOWING CONDITIONS:
  - A. THE INITIAL TEST SHALL BE CONDUCTED WITHIN 60 DAYS AFTER APPROVAL OF THE SOURCE TEST PROTOCOL BUT NOT LATER THAN 180 DAYS AFTER THE PERMIT IS ISSUED. AFTER THE INITIAL TEST, TESTING SHALL BE CONDUCTED ONCE EVERY 3 YEARS, OR IN ACCORDANCE WITH THE SCHEDULE SPECIFIED IN RULE 1146.
  - B. THE TEST SHALL BE CONDUCTED TO DETERMINE THE EMISSIONS OF NOX AND CO USING ONE OF THE TEST METHODS SPECIFIED IN RULE 1146. THE TEST SHALL BE CONDUCTED OVER 15 MINUTE AVERAGING TIME. THE TEST SHALL BE CONDUCTED DURING GAS FIRING AT A GREATER THAN 90% LOAD, 50% LOAD, AND 25% LOAD.
  - C. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH AN AQMD APPROVED TEST PROTOCOL. THE PROTOCOL SHALL BE SUBMITTED TO THE AQMD ENGINEER NO LATER THAN 45 DAYS BEFORE THE PROPOSED TEST DATE AND SHALL BE APPROVED BY THE AQMD BEFORE THE TEST COMMENCES. THE TEST PROTOCOL SHALL INCLUDE THE PROPOSED OPERATING CONDITIONS OF THE BOILER DURING THE TESTS, THE IDENTITY OF THE TESTING LAB, A STATEMENT FROM THE TESTING LAB CERTIFYING THAT IT MEETS THE CRITERIA OF RULE 304, AND A DESCRIPTION OF ALL SAMPLING AND ANALYTICAL PROCEDURES. THE AQMD SHALL BE NOTIFIED ON THE DATE AND TIME OF THE TEST AT LEAST 10 DAYS PRIOR TO THE TEST. TEST RESULTS SHALL BE SUBMITTED TO THE AQMD WITHIN 30 DAYS OF COMPLETION OF THE TEST.

[RULE 1146]

**PERIODIC MONITORING:**



## FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

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

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

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

### Emissions And Requirements:

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

NOx: 30 PPMV, RULE 1146, WHEN FIRING NATURAL GAS (UNTIL 12/31/12)  
NOx: 9 PPM, RULE 1146, WHEN FIRING NATURAL GAS (ON AND AFTER 1/1/13)  
NOx: 40 PPMV, RULE 1146, WHEN FIRING FUEL OIL  
CO: 400 PPMV, RULE 1146  
CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO CONSTRUCT**

A/N 526279

**Equipment Description:**

**MODIFICATION OF:**

BOILER NO. 2, BABCOCK AND WILCOX, WATER TUBE TYPE, NATURAL GAS OR FUEL OIL FIRED, COEN, MODEL SDAF-14 LOW NOX BURNER, 19,860,000 BTU PER HOUR, WITH A 7 ½ HP COMBUSTION AIR BLOWER, AND AN INDUCED DRAFT FLUE GAS RECIRCULATION SYSTEM.

OPERATING UNDER P/O D61319

BY REMOVAL OF THE COEN BURNER AND INSTALLATION OF A POWER FLAME NOVA PLUS LOW NOX BURNER, MODEL NVC-10-GO-30, RATED AT 19,860,000 BTU/HR.

**Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH 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.  
[RULE 1146]
4. THIS EQUIPMENT SHALL BE FIRED ON NATURAL GAS ONLY, LOW NITROGEN FUEL OIL WITH LESS THAN 0.01% NITROGEN AND SULFUR CONTENT WHICH MEETS THE RULE 431.2 LIMIT, MAY BE FIRED DURING PERIODS OF FORCED MAJEURE GAS CURTAILMENTS, DURING MAINTENANCE TESTING OF THE BURNER NOT TO EXCEED 30 MINUTES PER MONTH OR DURING COMPLIANCE TESTING.  
[RULE 1303(a)]
5. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR FUEL AND RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THE AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE PER YEAR, ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ASSURE ITS ABILITY TO REPEAT THE PERFORMANCE AT THE SAME BURNER FIRING RATE. THE OWNER OR OPERATOR OF THIS BOILER SHALL MAINTAIN ALL BOILER TUNE UP RECORDS FOR A PERIOD OF AT LEAST FIVE YEARS AND THE RECORDS SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1146]



## FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

6. THE EMISSIONS FROM THIS BOILER SHALL NOT EXCEED BY VOLUME ON A DRY BASIS AT 3% O<sub>2</sub>, AVERAGED OVER 15 CONSECUTIVE MINUTES:
  - A. UNTIL DECEMBER 31, 2012 - 30 PPM NOX WHEN FIRING NATURAL GAS
  - B. BEGINNING JANUARY 1, 2013 - 9 PPM NOX WHEN FIRING NATURAL GAS
  - C. 40 PPM NOX WHEN FIRING FUEL OIL
  - D. 400 PPM CARBON MONOXIDE WHEN FIRING NATURAL GAS OR FUEL OIL[RULE 1146]
7. THE BURNER SHALL NOT FIRE ON LESS THAN 1667 SCF/HR OF NATURAL GAS DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.  
[RULE 1146]
8. THE OPERATOR SHALL INSTALL A FLOW METER TO ACCURATELY INDICATE THE FLOW RATE OF THE GAS AND SHALL RECORD THE HOURLY GAS BEING FIRED IN THE BOILER. THE MEASURING DEVICE SHALL CONTINUOUSLY MEASURE THE FLOW RATE AND SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT AND SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. CALIBRATION RECORDS AND HOURLY FLOW RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1146]
9. THE OPERATOR SHALL PERFORM PERIODIC EMISSION TESTS ON THE BOILER WITH A PORTABLE ANALYZER IN ACCORDANCE WITH THE SCHEDULE AND SPECIFICATIONS OUTLINED IN RULE 1146.  
[RULE 1146]
10. THE OPERATOR SHALL CONDUCT A SOURCE TEST ON THE BOILER UNDER THE FOLLOWING CONDITIONS:
  - A. THE INITIAL TEST SHALL BE CONDUCTED WITHIN 60 DAYS AFTER APPROVAL OF THE SOURCE TEST PROTOCOL BUT NOT LATER THAN 180 DAYS AFTER THE PERMIT IS ISSUED. AFTER THE INITIAL TEST, TESTING SHALL BE CONDUCTED ONCE EVERY 3 YEARS, OR IN ACCORDANCE WITH THE SCHEDULE SPECIFIED IN RULE 1146.
  - B. THE TEST SHALL BE CONDUCTED TO DETERMINE THE EMISSIONS OF NOX AND CO USING ONE OF THE TEST METHODS SPECIFIED IN RULE 1146. THE TEST SHALL BE CONDUCTED OVER 15 MINUTE AVERAGING TIME. THE TEST SHALL BE CONDUCTED DURING GAS FIRING AT A GREATER THAN 90% LOAD, 50% LOAD, AND 25% LOAD.
  - C. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH AN AQMD APPROVED TEST PROTOCOL. THE PROTOCOL SHALL BE SUBMITTED TO THE AQMD ENGINEER NO LATER THAN 45 DAYS BEFORE THE PROPOSED TEST DATE AND SHALL BE APPROVED BY THE AQMD BEFORE THE TEST COMMENCES. THE TEST PROTOCOL SHALL INCLUDE THE PROPOSED OPERATING CONDITIONS OF THE BOILER DURING THE TESTS, THE IDENTITY OF THE TESTING LAB, A STATEMENT FROM THE TESTING LAB CERTIFYING THAT IT MEETS THE CRITERIA OF RULE 304, AND A DESCRIPTION OF ALL SAMPLING AND ANALYTICAL PROCEDURES. THE AQMD SHALL BE NOTIFIED ON THE DATE AND TIME OF THE TEST AT LEAST 10 DAYS PRIOR TO THE TEST. TEST RESULTS SHALL BE SUBMITTED TO THE AQMD WITHIN 30 DAYS OF COMPLETION OF THE TEST.

[RULE 1146]

### PERIODIC MONITORING:



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

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

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

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

**Emissions And Requirements:**

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

NOx: 30 PPMV, RULE 1146, WHEN FIRING NATURAL GAS (UNTIL 12/31/12)  
NOx: 9 PPM, RULE 1146, WHEN FIRING NATURAL GAS (ON AND AFTER 1/1/13)  
NOx: 40 PPMV, RULE 1146, WHEN FIRING FUEL OIL  
CO: 400 PPMV, RULE 1146  
CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

**PERMIT TO CONSTRUCT**

A/N 525729

**Equipment Description:**

MODIFICATION OF:

BOILER NO. 3, BABCOCK AND WILCOX, WATER TUBE TYPE, NATURAL GAS OR FUEL OIL FIRED, COEN, MODEL SDAF-18 LOW NOX BURNER, 25,700,000 BTU PER HOUR, WITH A 7 ½ HP COMBUSTION AIR BLOWER, AND AN INDUCED DRAFT FLUE GAS RECIRCULATION SYSTEM.

OPERATING UNDER P/O D61321

BY REMOVAL OF THE COEN BURNER AND INSTALLATION OF A POWER FLAME NOVA PLUS LOW NOX BURNER, MODEL NVC-10-GO-30, RATED AT 19,860,000 BTU/HR, NATURAL GAS ONLY.

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH 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.  
[RULE 1146]
4. THIS EQUIPMENT SHALL BE FIRED ON NATURAL GAS ONLY.  
[RULE 1303(a)]
5. THE MODIFICATION TO INSTALL THE DE-RATED LOW NOX BURNER SHALL BE COMPLETED PRIOR TO JANUARY 31, 2012.  
[RULE 1303(a)]
6. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR FUEL AND RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THE AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE PER YEAR, ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ASSURE ITS ABILITY TO REPEAT THE PERFORMANCE AT THE SAME BURNER FIRING RATE. THE OWNER OR OPERATOR OF THIS BOILER SHALL MAINTAIN ALL BOILER TUNE UP RECORDS FOR A PERIOD OF AT LEAST FIVE YEARS AND THE RECORDS SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1146]



**FACILITY PERMIT TO OPERATE  
LONG BEACH MEMORIAL MEDICAL CENTER**

7. THE EMISSIONS FROM THIS BOILER SHALL NOT EXCEED BY VOLUME ON A DRY BASIS AT 3% O<sub>2</sub>, AVERAGED OVER 15 CONSECUTIVE MINUTES:
  - A. UNTIL DECEMBER 31, 2011 - 30 PPM NOX WHEN FIRING NATURAL GAS
  - B. 40 PPM NOX WHEN FIRING FUEL OIL (UNTIL THE BURNER IS REPLACED)
  - C. BEGINNING JANUARY 1, 2012 - 9 PPM NOX WHEN FIRING NATURAL GAS
  - D. 400 PPM CARBON MONOXIDE[RULE 1146]
  
8. THE BURNER SHALL NOT FIRE ON LESS THAN 4729 SCF/HR OF NATURAL GAS DURING NORMAL OPERATION, NOT INCLUDING START-UPS AND SHUTDOWNS.  
[RULE 1146]
  
9. THE OPERATOR SHALL INSTALL A FLOW METER TO ACCURATELY INDICATE THE FLOW RATE OF THE GAS AND SHALL RECORD THE HOURLY GAS BEING FIRED IN THE BOILER. THE MEASURING DEVICE SHALL CONTINUOUSLY MEASURE THE FLOW RATE AND SHALL BE ACCURATE TO WITHIN PLUS OR MINUS 5 PERCENT AND SHALL BE CALIBRATED ONCE EVERY 12 MONTHS. CALIBRATION RECORDS AND HOURLY FLOW RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1146]
  
10. THE OPERATOR SHALL PERFORM PERIODIC EMISSION TESTS ON THE BOILER WITH A PORTABLE ANALYZER IN ACCORDANCE WITH THE SCHEDULE AND SPECIFICATIONS OUTLINED IN RULE 1146.  
[RULE 1146]
  
11. THE OPERATOR SHALL CONDUCT A SOURCE TEST ON THE BOILER UNDER THE FOLLOWING CONDITIONS:
  - A. THE INITIAL TEST SHALL BE CONDUCTED WITHIN 60 DAYS AFTER APPROVAL OF THE SOURCE TEST PROTOCOL BUT NO LATER THAN 180 DAYS AFTER THE PERMIT IS ISSUED. AFTER THE INITIAL TEST, TESTING SHALL BE CONDUCTED ONCE EVERY 3 YEARS, OR IN ACCORDANCE WITH THE SCHEDULE SPECIFIED IN RULE 1146.
  - B. THE TEST SHALL BE CONDUCTED TO DETERMINE THE EMISSIONS OF NOX AND CO USING ONE OF THE TEST METHODS SPECIFIED IN RULE 1146. THE TEST SHALL BE CONDUCTED OVER 15 MINUTE AVERAGING TIME. THE TEST SHALL BE CONDUCTED DURING GAS FIRING AT A GREATER THAN 90% LOAD, 50% LOAD, AND 25% LOAD.
  - C. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH AN AQMD APPROVED TEST PROTOCOL. THE PROTOCOL SHALL BE SUBMITTED TO THE AQMD ENGINEER NO LATER THAN 45 DAYS BEFORE THE PROPOSED TEST DATE AND SHALL BE APPROVED BY THE AQMD BEFORE THE TEST COMMENCES. THE TEST PROTOCOL SHALL INCLUDE THE PROPOSED OPERATING CONDITIONS OF THE BOILER DURING THE TESTS, THE IDENTITY OF THE TESTING LAB, A STATEMENT FROM THE TESTING LAB CERTIFYING THAT IT MEETS THE CRITERIA OF RULE 304, AND A DESCRIPTION OF ALL SAMPLING AND ANALYTICAL PROCEDURES. THE AQMD SHALL BE NOTIFIED ON THE DATE AND TIME OF THE TEST AT LEAST 10 DAYS PRIOR TO THE TEST. TEST RESULTS SHALL BE SUBMITTED TO THE AQMD WITHIN 30 DAYS OF COMPLETION OF THE TEST.[RULE 1146]



## FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

### Emissions And Requirements:

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

NOx: 30 PPMV, RULE 1146 WHEN FIRING NATURAL GAS (UNTIL 12/31/11)  
NOx: 9 PPM, RULE 1146 WHEN FIRING NATURAL GAS (ON AND AFTER 1/1/12)  
NOx: 40 PPMV, RULE 1146 WHEN FIRING FUEL OIL, UNTIL THE BURNER IS REPLACED  
CO: 400 PPMV, RULE 1146  
CO: 2000 PPMV, RULE 407  
PM: 0.1 GR/SCF, RULE 409