

FACILITY PERMIT TO OPERATE CEDARS-SINAI MEDICAL CTR

PERMIT TO CONSTRUCT/OPERATE

Permit No. TBD
A/N 556615

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, MODEL NO. QSL9-G7, DIESEL- FUELED, FOUR-CYCLE, SIX CYLINDERS, TURBOCHARGED AND AFTERCOOLED, RATED AT 464 BHP, EQUIPPED WITH A DIESEL PARTICULATE FILTER SYSTEM, JOHNSON MATTHEY CONTINUOUSLY REGENERATING TECHNOLOGY (CRT(+)-2-H-BITO-6-LP), A CONTINUOUSLY REGENERATING TECHNOLOGY DIAGNOSTIC MODULE (CRTDM) WITH DATA LOGGING AND ALARM SYSTEM, DRIVING AN EMERGENCY ELECTRICAL GENERATOR, 250 KW.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 431.2 AND RULE 1470.
[RULE 431.2, RULE 1470]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING, NO MORE THAN 4.2 HOURS IN ANY ONE MONTH FOR MAINTENANCE AND TESTING.
[RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 1304(a)-MODELING AND OFFSET EXEMPTIONS, RULE 1313, RULE 1401, RULE 1470, 40 CFR 60.4211(f)]
5. OPERATING BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1303(a)(1)-BACT, RULE 1470]
6. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 1304(a)-MODELING AND OFFSET EXEMPTIONS, RULE 1401, RULE 1470, 40 CFR 60.4209(a)]

FACILITY PERMIT TO OPERATE CEDARS-SINAI MEDICAL CTR

7. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED, DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS:
- A. EMERGENCY USE.
 - B. MAINTENANCE AND TESTING.
 - C. OTHER (DESCRIBE THE REASON FOR OPERATING).

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

[RULE 1110.2, RULE 1304(a)-MODELING AND OFFSET EXEMPTIONS, RULE 1470, 40 CFR 60.4214(b)]

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

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

[RULE 1110.2, RULE 1304(a)-MODELING AND OFFSET EXEMPTIONS, RULE 1470, RULE 3004]

9. THIS ENGINE SHALL NOT BE OPERATED FOR NON-EMERGENCY USE BETWEEN THE HOURS OF 7:30 A.M. AND 3:30 P.M. ON DAYS WHEN SCHOOL IS IN SESSION.
[RULE 1470]
10. THIS ENGINE SHALL NOT BE OPERATED UNLESS IT IS VENTED TO A DIESEL PARTICULATE FILTER SYSTEM WHICH IS IN FULL OPERATION AND IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 1303(a)(1)-BACT, RULE 1470]
11. THE OPERATOR SHALL OPERATE THE DIESEL PARTICULATE FILTER SYSTEM ONLY WITH AN OPERATIONAL CRT DIAGNOSTIC MODULE (CRTDM) EQUIPPED WITH EXHAUST TEMPERATURE AND BACK PRESSURE MONITORS.
[RULE 1470, §60.4209(B)]
12. THE CRT DIAGNOSTIC MODULE SHALL BE PROGRAMMED TO PROVIDE AN AUDIBLE ALARM WHENEVER THE ENGINE BACKPRESSURE REACHES THE MAXIMUM ALLOWABLE BACKPRESSURE OF 41 INCHES OF WATER.
[RULE 1470]
13. THE ENGINE SHALL BE OPERATED AT THE LOAD LEVEL REQUIRED TO ACHIEVE AN ENGINE EXHAUST GAS TEMPERATURE OF 464 DEG F (240 DEG C) FOR PASSIVE

FACILITY PERMIT TO OPERATE CEDARS-SINAI MEDICAL CTR

REGENERATION OF THE DIESEL PARTICULATE FILTER FOR AT LEAST 40% OF THE ENGINE'S OPERATING TIME.

[RULE 1470]

14. THE ENGINE SHALL NOT BE OPERATED BELOW THE PASSIVE REGENERATION TEMPERATURE OF 464 DEG F (240 DEG C) FOR MORE THAN 720 CONSECUTIVE MINUTES.
[RULE 1470]
15. THE OPERATOR SHALL REGENERATE THE DIESEL PARTICULATE FILTER AFTER EVERY 24 COLD STARTS AND 30 MINUTE IDLE SESSIONS, OR WHENEVER AN AUDIBLE ALARM INDICATING THE BACKPRESSURE IS 35 INCHES OF WATER IS RECEIVED FROM THE CRT DIAGNOSTIC MODULE, WHICHEVER OCCURS FIRST. FILTER REGENERATION IS COMPLETE WHEN THE BACKPRESSURE MONITORING SYSTEM INDICATES A NORMAL BACKPRESSURE READING.
[RULE 1470]
16. THE ENGINE SHALL BE SHUT DOWN AND THE DIESEL PARTICULATE FILTER SHALL BE CLEANED WHENEVER THE BACKPRESSURE REACHES THE MAXIMUM BACKPRESSURE LIMIT OF 41 INCHES WATER. CLEANING SHALL BE PERFORMED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
[RULE 1470]
17. AFTER EVERY 200 HOURS OF NORMAL ENGINE OPERATION, THE OPERATOR SHALL INSPECT THE INTEGRITY OF THE DIESEL PARTICULATE FILTER AND, IF NECESSARY, REPLACE THE FILTER.
[RULE 1470]
18. THE OPERATOR SHALL MAINTAIN RECORDS OF DIESEL PARTICULATE FILTER INSPECTIONS, REPLACEMENTS, AND CLEANING.
[RULE 1470, §60.4214(C)]
19. REMOVAL OF THE DIESEL PARTICULATE FILTER'S FILTER MEDIA FOR CLEANING MAY ONLY OCCUR UNDER THE FOLLOWING CONDITIONS:
 - A. THE INTERNAL COMBUSTION ENGINE SHALL NOT BE OPERATED FOR MAINTENANCE AND TESTING OR ANY OTHER NON-EMERGENCY USE WHILE THE DIESEL PARTICULATE FILTER MEDIA IS REMOVED; AND
 - B. THE DIESEL PARTICULATE FILTER'S FILTER MEDIA SHALL BE RETURNED AND RE-INSTALLED WITHIN 10 WORKING DAYS FROM THE DATE OF REMOVAL; AND
 - C. THE OWNER OR OPERATOR SHALL MAINTAIN RECORDS INDICATING THE DATE(S) THE DIESEL PARTICULATE FILTER'S FILTER MEDIA WAS REMOVED FOR CLEANING AND THE DATE(S) THE FILTER MEDIA WAS RE-INSTALLED. RECORDS SHALL BE RETAINED FOR A MINIMUM OF 36 MONTHS.

[RULE 1470]

FACILITY PERMIT TO OPERATE CEDARS-SINAI MEDICAL CTR

20. THIS ENGINES SHALL COMPLY WITH THE FOLLOWING EMISSION LIMITS:
- | | | |
|----|------------|-------------------------------|
| A. | NOX + NMHC | 3.0 GRAMS/BHP-HR (BACT) |
| B. | CO | 2.6 GRAMS/BHP-HR (BACT) |
| C. | PM | 0.15 GRAMS/BHP-HR (BACT) |
| D. | PM | 0.01 GRAMS/BHP-HR (RULE 1470) |

[RULE 1303(a)(1)-BACT, RULE 1470, RULE 1313, 40 CFR 60.4205(B)]

21. THE SULFUR CONTENT OF DIESEL FUEL SUPPLIED TO THE ENGINE SHALL NOT EXCEED 15 PPM BY WEIGHT.

[RULE 1303(a), 40 CFR 60.4207(b)]

22. THE OPERATOR SHALL OPERATE AND MAINTAIN THE STATIONARY ENGINE AND DIESEL PARTICULATE FILTER ACCORDING TO THE MANUFACTURER'S WRITTEN EMISSION-RELATED INSTRUCTIONS (OR PROCEDURES DEVELOPED BY THE OPERATOR THAT ARE APPROVED BY THE ENGINE MANUFACTURER), CHANGE ONLY THOSE EMISSION-RELATED SETTINGS THAT ARE PERMITTED BY THE MANUFACTURER, AND MEET THE REQUIREMENTS OF 40 CFR 89, 94 AND/OR 1068, AS THEY APPLY.

[40 CFR 60.4211(a)]

23. THE OPERATOR SHALL COMPLY WITH THE EMISSION STANDARDS SPECIFIED IN 40 CFR 60.4205(b) BY PURCHASING AN ENGINE CERTIFIED TO THE EMISSION STANDARDS IN 40 CFR 60.4205(b), AS APPLICABLE, FOR THE SAME MODEL YEAR AND MAXIMUM ENGINE POWER. THE ENGINE MUST BE INSTALLED AND CONFIGURED ACCORDING TO THE MANUFACTURER'S EMISSION-RELATED SPECIFICATIONS.

[40 CFR 60.4211(c)]

24. ALL RECORDS SHALL BE MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 1110.2, RULE 3004]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX + NMHC: 3.0 G/BHP-HR, RULE 1303(a), 40 CFR 60.4205(b)
CO: 2.6 G/BHP-HR, RULE 1303(a), 40 CFR 60.4205(b)
PM: 0.15 G/BHP-HR, RULE 1303(a), 40 CFR 60.4205(b)
PM: 0.01 G/BHP-HR, RULE 1470