

FACILITY PERMIT TO OPERATE LAC/USC MEDICAL CENTER

Permit No. DRAFT
A/N 556643

Equipment Description:

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL, 635 BHP, MODEL 6063HV35, DIESEL FUELED, TURBOCHARGED, AFTERCOOLED, EQUIPPED WITH A JOHNSON MATTHEY CRT(+) DIESEL PARTICULATE FILTER, DRIVING AN 474 KW EMERGENCY ELECTRICAL GENERATOR

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING AND NO MORE THAN 4.2 HOURS IN ANY ONE MONTH FOR MAINTENANCE AND TESTING.
[RULE 1303(b)(2)-Offset, RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1303(b)(2)-Offset, RULE 1470]
5. THE OPERATION OF ENGINE BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1303(b)(2)-Offset, RULE 1470]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND SHALL DOCUMENT 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 TIME METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION.

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[RULE 1303(b)(2)-Offset, RULE 1470]

7. 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.

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

[RULE 1303(b)(2)-Offset, RULE 1470]

8. THIS OPERATOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 431.2 AND RULE 1470.
[RULE 431.2, RULE 1470]
9. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ITS EXHAUST IS VENTED TO A DIESEL PARTICULATE FILTER SYSTEM WHICH IS IN FULL OPERATION AND IS IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 1470]
10. THE OPERATOR SHALL OPERATE THE DIESEL PARTICULATE FILTER ONLY WITH AN OPERATIONAL CRT DIAGNOSTIC MODULE (CRTDM) EQUIPPED WITH EXHAUST TEMPERATURE AND PRESSURE MONITORS. THE CRT DIAGNOSTIC MODULE SHALL BE PROGRAMMED TO PROVIDE AN AUDIBLE ALARM WHENEVER THE ENGINE BACKPRESSURE REACHES THE MAXIMUM ALLOWABLE BACKPRESSURE OF 40.8 INCHES OF WATER.
[RULE 1470]
11. THE OPERATOR SHALL REGENERATE THE DIESEL PARTICULATE FILTER AFTER EVERY 24 CONSECUTIVE COLD START-UPS AND 30 MINUTE IDLE SESSIONS, OR WHENEVER AN AUDIBLE ALARM INDICATING THE BACKPRESSURE IS 40.8 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]
12. THE ENGINE SHALL BE SHUT DOWN AND THE DIESEL PARTICULATE FILTER CLEANED AFTER 150 HALF-HOUR COLD STARTS WITH ASSOCIATED REGENERATIONS, OR 1,000 HOURS OF EMERGENCY/STANDBY USE, WHICHEVER COMES FIRST. CLEANING SHALL BE PERFORMED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
[RULE 1470]
13. THE ENGINE SHALL BE OPERATED AT THE LOAD LEVEL REQUIRED TO ACHIEVE A MINIMUM EXHAUST TEMPERATURE OF 240 DEGREES C FOR PASSIVE REGENERATION OF THE DIESEL PARTICULATE FILTER FOR A MINIMUM OF 40 PERCENT OF THE ENGINE'S OPERATING TIME AND AN OXIDES OF NITROGEN (NOX)/PM RATIO OF 15 AT GREATER THAN OR EQUAL TO 300 DEGREES C AND 20 AT LESS THAN OR EQUAL TO 300 DEGREES C. THE ENGINE SHALL NOT BE

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OPERATED BELOW THE PASSIVE REGENERATION TEMPERATURE OF 240 DEGREES C FOR MORE THAN 720 CONSECUTIVE MINUTES.
[RULE 1470]

14. THE OPERATOR SHALL KEEP RECORDS OF DIESEL PARTICULATE FILTER INSPECTIONS, CLEANING, AND REPLACEMENTS. THE OPERATOR SHALL MAINTAIN THESE RECORDS FOR A MINIMUM OF FIVE YEARS AND MAKE THEM AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1470]

15. REMOVAL OF THE DIESEL PARTICULATE FILTER'S FILTER MEDIA FOR CLEANING MAY ONLY OCCUR UNDER THE FOLLOWING CONDITIONS:

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

THE DIESEL PARTICULATE FILTER'S FILTER MEDIA SHALL BE RETURNED AND RE-INSTALLED WITHIN 10 WORKING DAYS FROM THE DATE OF REMOVAL; AND

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 PERIOD OF 5 YEARS.

[RULE 1470]

16. THE EMISSIONS FROM THIS EQUIPMENT SHALL COMPLY WITH THE FOLLOWING LIMITS:

CONTAMINANT	EMISSION LIMIT (GM/BHP-HR)
NITROGEN OXIDES+VOLATILE ORGANIC COMPOUNDS (NO _x +VOC)	3.0
CARBON MONOXIDE (CO)	2.6
PATICULATE MATTER (PM10)	0.01

[RULE 1303-BACT, RULE 1470]

17. THIS EQUIPMENT SHALL BE FIRED EXCLUSIVELY WITH DIESEL FUEL WITH LESS THAN OR EQUAL TO 15 PPM SULFUR BY WEIGHT.
[RULE 431.2]

18. THE OPERATOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA AIR RESOURCES BOARD (CARB) EXECUTIVE ORDER DE-08-009-06.
[RULE 1470]