

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  <i>ENGINEERING AND COMPLIANCE</i>  APPLICATION PROCESSING AND CALCULATIONS	PAGE 1 of 3 A/N 495085 PROCESSED BY AK CHECKED BY DATE 10/13/2009
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Applicant's Name: Ultramar  
Mailing Address: 2402 East Anaheim St.  
 Wilmington, Ca. 90744

Equipment Location: 1220 N. Alameda St  
 Wilmington, Ca. 90744

Equipment Description:  
 INTERNAL COMBUSTION ENGINE  
 MANUFACTURER: Cummins  
 MODEL NO.: CFP15E-F20 or Approved Equivalent  
 FUELED WITH: DIESEL  
 DRIVING: EMERGENCY FIRE PUMP  
 SERIAL NO.:  
 CYLINDERS: 6  
 ASPIRATION: TURBOCHARGED  
 HP RATING: 494

HISTORY/PROCESS DESCRIPTION:  
 Application date: 1/22/2009  
 Class: 1

CALCULATIONS:  
 See ATTACHMENT A.

EVALUATION:  
Rule 212:  
 This is a not significant project (No school within 1000 ft.). Public notice is not required.  
Rule 401:  
 Based on experience with similar equipment, this engine is expected to comply with the visible emission limits.  
Rule 402:  
 Based on experience with similar equipment, nuisance complaints are not expected.  
Rule 404:  
 Based on experience with similar equipment, compliance with this rule is expected.  
Rule 431.2:  
 Diesel fuel supplied to this equipment must contain 0.0015% or less sulfur by weight. Compliance is expected.  
Rule 1110.2:  
 Rule 1110.2 is not applicable.  
REGULATION XIII: New Source Review (Amended Jun. 16, 1996)  
 The equipment must be constructed with BACT (PAGE 2). It is exempt from the offset (Emergency, portable, < 4 tons per year) and modeling.  
RULE 1401: Exempt as per section (g)(1)(F)

Rule 1470: Compliance is expected.

Note: Since PM emission rate is between 0.01 & 0.15 g/hp-hr, the facility will be limited to 50 hours per year for maintenance and testing purposes per Rule 1470(c)(3)(C)

Rule 1472: Firepumps are not SUBJECT TO THIS RULE.

**BACT REQUIREMENTS (TIER 3)**

	GM/BHP-HR		
	NO <sub>x</sub> + ROG	CO	PM
Required	3.0	2.6	0.15
Actual	2.9	0.7	0.08
Compliance	Yes	Yes	Yes

**Overall Compliance:**

YES

\* The application for fire pump (rated between 175 to 750 hp) deemed complete after 10/3/08 are subject to Tier 3 BACT requirements (see attached BACT Guidelines).

40 CFR Part 63, Subpart ZZZZ

63.6590 (c) - this is a new stationary Reciprocating Internal Combustion Engine (RICE) and is an emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP must meet the requirements of this part by meeting the requirements of 40 CFR Part 60 Subpart IIII. Compliance is expected.

40 CFR Part 60, Subpart iiiii

60.4205 (c) - Fire pump engines with a displacement of less than 30 liters per cylinder must comply with the following:

	Nox + NMHC - 3.0 g/BHP-HR	CO - 2.6 g/BHP-Hr	PM - 0.15 g/BHP-HR
This engine	2.9	0.7	0.08

60.4209 (a) - The operator of the engine must install a non-resettable hour meter prior to startup of the engine.

60.4211 (b) - Not applicable

60.4211 (c) - The engine will be installed and configured according to the manufacturer's specifications.

60.4214 (b) - Not applicable. The engine is manufactured in 2009+. No initial notification is required.

**DISCUSSIONS:**

Based on the information submitted with the application, the engine will operate:

in violation of BACT.

in compliance with all the applicable Rules and Regulations of the District.

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	CHECKED BY		
	DATE	10/13/2009	

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.
- 2 . THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.

FOR CONDITIONS 3 THRU' 8, PLEASE REFER TO SAMPLE PERMIT.