Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR			FUEL TYPE	USEFUL LIFE (hours)			
2008	8CEXL1.71A31	1.714	Diesel	5000			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
	Indirect Diesel Inje	ction	Crane, Loader, Tractor, Dozer; Pump, Compressor, Generator and Other Industrial Equipment				

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
8 <u><</u> kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
19 <u><</u> kW < 37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT			5.9	1.5	0.23	5	6	7

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 22 day of May 2008.

Annette Hebert, Chief Mobile Source Operations Division

ATTACHTENT P. 1 °C (Engine Model Summary Form U-R-002-0456

Manufacturer: CUMMINS Inc. Engine category: Nonroad CI EPA Engine Famiy: 8CEXL1.71A31 Mfr Famity Name: A1700 Process Code: New Submission

• 8. Fuel Rate: 9. Emission Control (tbs/hr)@peak torque Device Per SAE J1930 IDI,EM IDI,EM IDI, EM IDI,EM 10.5 NIA 9.5 9.1 7.Fuel Rate: mm/stroke@peak torque 39.0 35.5 34.3 **N** 6. Torque @ RPM (SEA Gross) 85.5@1600 76.1@1600 80.5@1600 NA 5.Fuel Rate: (Ibs/hr) @ peak HP (for diesels only) 16.1 13.3 13.1 9.8 4.Fuel Rate: mm/stroke @ peak HP ((for diesel only) 34.0 32.0 28.0 33.1 3.BHP@RPM (SAE Gross) 32.2@2500 25.3@1800 37@2800 31@2800 2.Engine Model 3A1.7-G1 A1700 A1700 A1700 1.Engine Code FR35004 FR35014 FR35025 FR35017