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 engines 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	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours) 8000			
2007	7JCBL04.40TC	4.399	Diesel				
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
Dire	ect Diesel Injection, Smo Turbocharger, Charge	ke Puff Limiter, Air Cooler	Crane, Loader, Tractor, Dozer, Pump, Compressor, 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	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
POWER CLASS		i	НС	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 <u>≤</u> kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT			5.7	0.7	0.28	1	1	1

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

ZZ___day of November 2006.

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: JCB Power Systems Engine category: Nonroad Cl EPA Engine Famiy. 7JCBL04.40TC Mfr Family Name: JCB 444T Process Code: New Submission

Attachment 1051

TC. EM. SPL, DDT CAC TC, EM, SPL, DPI, CAC ∢ ۲ 8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930 tothu-R-049-0006 27.2 @ 1300 25.4 @ 1250 mm/stroke@peak torque 96 @ 1300 90 @ 1250 7.Fuel Rate: 6.Torque @ RPM (SEA Gross) 295 @ 1250 313 @ 1250 5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only) 38.3 @ 2200 35.4 @ 2200 4.Fuel Rate: mm/stroke @ peak HP (for diesel only) 74 @ 2200 80 @ 2200 3.BHP@RPM (SAE Gross) 92.0 @ 2200 99.5 @ 2200 2.Engine Model 2 Ę 1.Engine Code **JCB 444** 50 State **JCB 444**