California Environmental Protection Agency AIR RESOURCES BOARD

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC) Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-45-9; and

Pursuant to the December 15, 1998 Settlement Agreement between the Air Resources Board and the manufacturer, and any modifications thereof to the Settlement Agreement;

IT IS ORDERED AND RESOLVED: That the following engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL ENGINE FAMILY		ENGINE SIZE (liter)	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas)	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS (L/M/H HDD=light/medium/heavy heavy-dut (HD) diesel; UB=urban bus; HDO=HD Ottoj						
2001	1MKXH11.9V60	11.9	Diesel	Diesel	HHDD						
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			ENGINE MODELS / CODES (rated power in horsepower, hp)								
TC, CAC, DDI, ECM		E7-400 (400 hp), E7-350 (350 hp), E7-300 (300 hp)									
	ee-way/oxidizing catalyst laIMFI DDU/DI≍direct/int MR≖pulsed AiR SPL=smol			O2S TBI=throttle bo	dy fuel injection. METEmulti part fuel interview						

The following are the exhaust emission standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for this engine family in grams per brake horsepower-hour (g/bhp-hr) for hydrocarbon (HC) or non-methane HC (NMHC), oxides of nitrogen (NOx), or NMHC+NOx, carbon monoxide (CO) [except that "diesel" CO certification compliance may have been demonstrated pursuant to Code of Federal Regulations, Title 40, Part 86, Subpart A, Section 86.091-23(c)(2)(i) in lieu of testing], particulate matter (PM), and formaldehyde (HCHO) under the "Federal Test Procedure" (FTP) (Title 13, California Code of Regulations, (13 CCR) Section 1956.1 (urban bus) or 1956.8 (other than urban bus)), and under the "Euro III Test Procedure" (EURO) in the Settlement Agreement, including a EURO's "Not-to-Exceed" NOx standard: (The emission standards and certification levels for default operations permitted under 13 CCR Section 1956.1 or 1956.8 are in parentheses.)

* ≈ not applicable	НС		NMHC			NO			EURO'S NOT-TO-EXCEED NOx STD 7.0					
					NOx		NMHC+NOx		co		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
(DIRECT) STD	1.3	1.3	•	+	*	•	*	•	15.5	15.5	0.10			EURO
AVERAGE STD	•	•	•	· ·	4.0	4.0	*		10.0	13.5	0.10	0.10		
FEL	*	•	•	-	3.8	3.8	•					┝╍┅┻╍┥		· ·
CERT	0.1	0.02	*			┥───┤					•	•	•	*
	0.1	0.02			3.6	3.6	•	•	•	• "T	0.08	0.06	*	*

BE IT FURTHER RESOLVED: That certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR Sections 1965 (emission control labeling), and 2035 et seq. (emission control system warranty).

BE IT FURTHER RESOLVED: That the listed engine models are conditionally certified subject to the following conditions: (1) The Settlement Agreement is in effect; and, (2) The manufacturer is in compliance with all applicable certification requirements of the Settlement Agreement and any modifications thereof.

Engines certified under this Executive Order shall conform to all applicable California emission regulations and all requirements under the Settlement Agreement and any modifications thereof. The Bureau of Automotive Repair will be notified by copy of this Executive Order. This Executive Order hereby supersedes Executive Order A-27-88 dated March 22, 2001.

Executed at El Monte. California on this 2^{+4} day of January 20

day of January 2002. Um

R. B. Summerfield, Chief Mobile Source Operations Division