Pursuant to the authority vested in the Air Resources Board (ARB) 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 (EO) G-02-003; and

Pursuant to the December 15, 1998 Settlement Agreement (SA) between ARB and the manufacturer, and any modifications thereof to the Settlement Agreement,

IT IS ORDERED AND RESOLVED: That the 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 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-duty [HD] diesel; UB=urban bus; HDO=HD Otto)						
2004	4CEXH0912XAJ	14.9	Diesel	Diesel	HHDD						
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		ENGINE MODELS / CODES (rated power in horsepower, hp)  ISX 450 / FR10494 (450 hp), ISX 450ST / FR10476 (450 hp), ISX 435 / FR10495 (435 hp),  ISX 4357 / FR40476 (450 hp), ISX 450ST / FR10476 (450 hp), ISX 435 / FR10495 (435 hp),									
	DDI, EGR, TC, CAC, PCM		ISX 45051 / FR10473 (435 np), ISX 400 / FR10498 (400 np), ISX 400ST / FR10472 (406 np), ISX 450 / FR10498 (450 np), ISX 400 / FR10501 (408 np), ISX 385ST / FR10503 (408 np), ISX 465V / FR10504 (450 np), ISX 435V / FR10505 (425 np)								
gas recircula (prefix)=paral	tion AIR=secondary air ir	jection PAIR= HC≃hvdrocar	/ay/oxidizing catalyst WU (prefix) =warm-up cat. IMFI DD/IDI=direct /Indirect diesel injection TC =pulsed AiR SPL=smoke puff limiter ECWPCM== ton NMHC=pnp-methane HC NOvervides of elections	O2S≖oxygen sensor /SC≍turbo/super cha	HO2S=heated O2S TBI=throttle body fuel						

The following are the exhaust emission standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT), in g/bhp-hr, for this engine family 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 EURO's "Not-to-Exceed" standard(s). "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. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR Section 1956.1 or 1956.8 are in parentheses.)

				EUR	O'S NTE	NMHC: 0	0.625	NOx: *		NMHC+	NOx: 3.125	PM:	0.125
HC		NMHC		NOx		NMHC+NOx		co		PM		нсно	
FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTR	EURO	FTP	EURO	FTP	EURO
*	*	0.5	0.5	*		2.5	2.5	15.5	15.5	0.10	0.10	*	
*	*	*	*	*	•	•	•	,	*	*	*		
*	*	*	*	*		-	•		*			•	
		0.2	0.1	*	•	2.3	2.2	0.8	0.4	0.08	0.06	*	-
			FTP EURO FTP	FTP         EURO         FTP         EURO           *         *         0.5         0.5           *         *         *         *           *         *         *         *	HC         NMHC         N           FTP         EURO         FTP         EURO         FTP           *         *         0.5         0.5         *           *         *         *         *         *	HC         NMHC         NOx           FTP         EURO         FTP         EURO           *         *         0.5         0.5         *           *         *         *         *         *	HC         NMHC         NOx         NMHC           FTP         EURO         FTP         EURO         FTP           *         *         0.5         0.5         *         2.5           *         *         *         *         *         *	HC	HC	HC         NMHC         NOx         NMHC+NOX         CQ           FTP         EURO         FTP         FTP	HC	HC         NMHC         NOx         NMHC+NOX         CQ         PM           FTP         EURO         A <td>HC         NMHC         NOx         NMHC+NOx         CQ         PM         HC           FTP         EURO         FTP<!--</td--></td>	HC         NMHC         NOx         NMHC+NOx         CQ         PM         HC           FTP         EURO         FTP </td

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 labels), and 2035 et seq. (emission control warranty).

**BE IT FURTHER RESOLVED:** That the listed engine models are conditionally certified subject to the following conditions: (1) The SA is in effect; (2) The manufacturer is in compliance with all applicable certification requirements of the SA 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.

Mobile Source Operations Division

2*TH* Executed at El Monte, California on this

Allen Lyons, Chief

day of January 2004.