	CUMMINS INC.	EXECUTIVE ORDER A-021-0353-1 New On-Road Heavy-Duty Engines	
		New On-Road neavy-Duty Engines	

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.

EMISSION	CONTROL SYSTEMS		ISB: 170 / 2938 (169 hp), 145 / 2938 (144	hp), 170 / 8431 (1	69 hn) 145 / 8431 (144 hn)				
	IAL FEATURES &	ENGINE MODELS / CODES (rated power in horsepower, hp)							
2003	3CEXH0239BAD	3.9	Diesel	Diesel	MHDD				
YEAR	ENGINE FAMILY	ENGINE SIZE (liter)	FUEL TYPE (CNG/LNG=compressed/liquefled natural gas; LPG=liquefled petroleum gas)	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS (L/WH HDD=light/medium/heavy heavy-duty [HD] diesel; UB=urban bus; HDO=HD Otto)				

injection MFi=multi port fueling intercovertinge-way/oxinizing catalyst WU (prefix) =warm-up cat. 02S=oxygen sensor HO2S=heated O2S TBI=throttle body fuel gas recirculation AIR=secondary air injection SFI=sequentialMFI DDI/IDI=direct /indirect diesel injection TC/SC=turbo/super charger CAC=charge air cooler EGR=exhaust gas recirculation AIR=secondary air injection PAIR=pulsed AIR SPL=smoke puff limiter ECW/PCM=engine /powertrain control module EM=engine modification 2 (prefix)=parallel [2] (suffix)=in series HC=hydrocarbon NMHC=non-methane HC NOx=oxides of nitrogen CO=carbon monoxide PM=particulate matter HCHO=formaldehyde g/bhp-hr=grams per brake horsepower-hour

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.)

			EURO'	S NOT-TO	EXCEED	O STD	NMHC: 0	.6250	NOx: *		NMHC+NC)x: 4.875	PM	: 0.1250
* = not	HC		NMHC		NOx		NMHC+NOx		со		PM		НСНО	
applicable	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
(DIRECT) STD	*	*	0.5	0.5	*	•	*	•	15.5	15.5	0.10	0.10	*	•
AVERAGE STD	•	*	. *	*	+	*	2.5	•	*	•	• •	*	*	*
FEL	+	•	*	•	•	•	3.9	3.9	*	*	•	•	*	•
CERT	•	+	0.1	0.1	•	+	3.7	3.8	3.1	1.7	0.09	0.07	*	*

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 California emission regulations, and all SA's applicable requirements and any modifications thereof; and (3) The manufacturer has elected to seek certification of the listed engine models under the SA's provisions in Chapter VI.E (Averaging, Banking and Trading) and shall be required to comply with these and any other related provisions.

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-021-0353 dated February 20, 2003.

Executed at El Monte, California on this _

4

____ day of March 2003.

Aller Eyons, Chief Mobile Source Operations Division