California Environmental Protection Agency	CUMMINS INC.	EXECUTIVE ORDER A-021-0476 New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

**IT IS ORDERED AND RESOLVED**: 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				FUEL TYPE	STANDARDS & TEST		ECS & SPECIAL FEATURES	DIAGNOSTIC 6
YEAR			PROCEDURE CLASS TBI, TC, CAC, ECM, OC, HO2S		N/A			
2008	2008 8CEXH0505CBH		8.3	CNG	Diesel	MHDD		
1 .	ENGINE'S IDLE			ADD	ITIONAL IDLE EN	ISSIONS CO	NTROL <sup>5</sup>	
E	Exempt				N	/A		
ENGINE (	L)				ELS/CODES (ra			
8.3	CG-280	) / 8013;	FR90947 (280)	; CG-275 / 8010;FR9094 CG-28	15 (275); CG-2 0 / 8773;FR90	50 / 8007;Fi 947 (280)	R90777 (250); CG-250 / 8004;FR90	942 (250);
1								
	_							
L=liter; hp CNG/L	⊨horsepower; kw≃k NG=compressed/liqu	ilowatt; hr Jefied natu	=hour; ral gas: LPG=tique! y-duty dieset: UB=∟	ied petroleum gas; E85=85% et irban bus; HDO=heavy duty Olto	hanoi fuel; MF=mul );	tí fuel a.k.a. BF	R 86,abc=Title 40, Code of Federal Regulation =bi fuel; DF=dual fuel; FF=flexible fuel;	

LINKE HDD=ignitimedium/neavy-duty deavy-duty deavy-d

ESS=engine shutdown system (per 13 CCR 1956.8(a)(6)(A)(1); 30g=30 g/hr NOx (per 13 CCR 1956.8(a)(6)(C); APS =internal combustion auxiliary power system; ALT=alternative method (per 13 CCR 1956.8(a)(6)(D)): Exempte-exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; N/A=nol applicable (e.g., Otto engines and vehicles); EMD=engine manufacturer diagnostic system (13 CCR 1971.1);

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavyduty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures 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 1956.8 are in parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		co		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.5	0.5	*	*	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	*	*	*	1.8	1.8	*	*	*	*	*	*
CERT	0.21	0.01	*	*	1.7	1.4	1.3	0.8	0.008	0.005	*	*
NTE	0	.6		*	2	2.2	19	9.4	0.	02		*

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 g/bhp-hr=grams per brake horsepower-hour;
 FTP=Federal Test Procedure;
 EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions

 testing;
 NTE=Not-to-Exceed;
 STD=standard or emission test cap;
 FEL=family emission limit;
 CERT=certification level;
 NMHC/HC=non-methane/hydrocarbon;
 NOx=oxides of nitrogen;

 C0=carbon monoxide;
 PM=particulate matter;
 HCHO=formaldehyde;
 (Rev.: 2007-02-26);

**BE IT FURTHER RESOLVED:** 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:** For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

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

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

day of May 2008.

A nnette Hebert, Chief Mobile Source Operations Division