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 YEAR	ENGINE FAMILY		ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6
2000	0077/107 04			D:I	PROCEDURE	CLASS 2	DDI, TC, CAC, ECM, EGR, OC,	EMD
	2009 9SZXH07.84FA		7.8	Diesel	Diesel	MHDD	PTOX	
EMISSION	ENGINE'S IDLE		-	AD	DITIONAL IDLE EN	rissions co	NTROL 5	
Ĺ	ESS				N	/A		
ENGINE (L	-)			ENGINE MO	DELS / CODES (ra	ted power, in	hp)	
7.8				6HK1XS / 784F	A-1 (260), 6HK1	XV / 784FA	-2 (300)	
CNG/LN CNG/LN L/M/H H ECS=err up catalyst; TBI=throttle super charg-	Iniseptiwa, kw-iniseptiwa, light/medium/her DD=light/medium/her hission control system DPF=diesel particula body fuel injection; ser, CAC=charge air ulle; EM=engine mod	owatt, ar-infied natural avy heavy-ding TWC/OC ate filter, PT SFL/MFI=seccoder; EGF iffication; 2	par; gas; LPG=liquefie uty diesel; UB=unl =three-way/oxidizin (OX=periodic trap in quential/multi port f R / EGR-C=exhaus (prefix)=parallel; i	d petroleum gas; E85=85% e pan bus; HDO=heavy duty Ol ng catalyst; NAC=NOx adsor oxidizer; HO2S/O2S=heated/ uel injection; DGI=direct gas t gas recirculation / cooled EC 2) (suffix)=in series;	ethanol fuel; MF=muli to; ption catalyst; SCR-L oxygen sensor; HAF bline injection; GCAR GR; PAIR/AIR=pulser	i fuel a.k.a. BF I / SCR-N=select SIAFS=heated/a B=gaseous car d/secondary air	R 86.abc=Title 40, Code of Federal Regulation: =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / – ammonia: Wair-fuel-rabo sensor (a.k.a., universal or linear oburetor; IDV/DDI=indirect/direct diesel injection injection; SPL=smoke puff limiter; ECW/PCM=	/U (prefix) =warm- xygen sensor); ; TC/SC=turbo/ =engine/powertrain
per 13 CCF	₹1956.8(a)(b)(b); E	compt=exen	npted per 13 CCR	(1); 30g=30 g/hr NOx (per 1: 1956.8(a)(6)(B) or for CNG/LI	NG fuel systems; N/A); APS =interna =not applicable	al combustion auxiliary power system; ALT≏alt (e.g., Otto engines and vehicles);	ternative method

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 heavy-duty 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		РМ		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	*	*	*	*	15.5	15.5	D.01	0.01	*	*
FEL	*	*	1.43	1.43	1.4	1.4	+		+	+	*	+
CERT	0.1	0.02	1.36	1.26	1,4	1.3	0.1	0.03	0.004	0.002	*	+
NTE	0.21		2.14		2.1		19.4		0.02		*	

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; CO=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: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [OTTO engines] and the incorporated 40CFR 86.007-15(m)(9).

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 August 2008

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);

Annette Hebert, Chief

Mobile Source Operations Division