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	INTENDED SERVICE 2	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
2009	9HMXH04.7JTF	4.7	Diesel	Diesel	LHDD	ECM, EĞR, PTOX, ÖC, TC,CAC, DDI	EMD				
	NS CONTROL		AD	DITIONAL IDLE EN	IISSIONS CO	NTROL 5					
	30g	N/A									
ENGINE (L)		ENGINE MOI	DELS / CODES (ra	ted power, in	hp)					
4.7		J05D-TF / J05D-TF (175)									
CNG/LI L/M/H F ECS=e up catalyst TBI=throttle super charge	NG=compressed/liquefied in HDD=light/medium/heavy hamission control system; TV; DPF=diesel particulate file body fuel injection; SFI/A	inatural gas; LPG=liquefie leavy-duly diesel; UB=urb NC/OC=three-way/oxidizinter: PTOX=periodic trap of MFI-sequential/multiport far; EGR / EGR-C-exhaus	d petroleum gas; E85=65% e ban bus; HDO=heavy duty Ot ng catalyst; NAC=NOx adsorp oxidizer. HO2S/O2S=heated/ uel injection: DGI=direct gasc t gas recirculation / copied EC t gas recirculation / copied EC	ethanol fuel; MF=mult to; ption catalyst; SCR-L pxygen sensor; HAF:	. fuel a.k.a. BF	R 86.abc=Title 40, Code of Federal Regulations =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / – ammonia. W air-fuel-ratio sensor (a.k.a., universal or linear or but etor; IDI/DDI=indirect/direct dieset injection; injection; SPL=smoke puff limiter; ECW/PCM=	U (prefix) =warm- xygen sensor);				

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

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); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles);

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	0.01	0.01		*
FEL	*	,	1.20	1.20	1.2	1.2	-	*	*	- 0.01		*
CERT	0.01	0.02	1.10	1.14	1.1	1.2	0.2	0.01	0.01	0.01	*	<u> </u>
NTE	0.21		1.80		1.8		19.4		0.02			<u> </u>

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 g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure. EURO=Euro in European Steady-State System Modern Mo

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: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

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 40 CFR 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 December 2008.

Annette Hebert, Chief

Mobile Source Operations Division