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 FAM	ILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6			
2009	9NVXH0390AGA		6.4	Diesel	PROCEDURE	CLASS LHDD	DDI, TC, CAC, ECM, EGR, OC, PTOX	EMD			
	ENGINE'S IDLE NS CONTROL			AD	DITIONAL IDLE EN						
	ESS				N/	A					
ENGINE (L	-)	ENGINE MODELS / CODES (rated power, in hp)									
6.4	A230 / A230 (230), A215 / A215 (215), A200 / A200 (200)										
+				(200),	***********	10), A2001	A200 (200)				
CNG/LN  L/M/H Hi  ECS=em up catalyst; TBI=throttle super charge control modu  ESS=en (per 13 CCR	G=compressed/lique DD=light/medium/he lission control syster DPF=diesel particul body fuel injection; er: CAC=charge air ule; EM=engine mod pine shuldown systel 1956.8(a)(6)(D); E	fied nature avy heavy n; TWC/C ate filter; I SFVMFI=s cooler; E( lification; m (per 13 i compt=exi	al gas; LPG=liquefie- duly diesel; UB=url C=three-way/oxidizi >TOX=periodic trap equential/multi porl GR / EGR-C=exhaus 2 (prefix)=paraliel; CCR 1956.8(a)(A)(A) empted per 13 CCR	ed petroleum gas; E85=85% e ban bus; HDO=heavy duty Ott ng catalyst; NAC=NOx adsorpoxidizer; HO25/O25=heated/c/uel injection; DGI=direct gasort gas recirculation / cooled EG (2) (suffix)=in series.	ithanol fuel; MF=multion; o; tion catalyst; SCR-U xygen sensor; HAFS line injection; GCARI R; PAIR/AIR=pulsed CCR 1956.8(a)(6)(C)	fuel a.k.a. BF: / SCR-N=selec //AFS=heated/a 3=gaseous cart /secondary air i ; APS =interna	R 86.abc=Title 40, Code of Federal Regulations =bi fuel; DF=dual fuel; FF=flexible fuel; citive catalytic reduction – urea / – ammonia; W ain-fuel-ratio sensor (a.k.a., universal or linear or puretor; IDI/DDI=indirect/direct diesel injection; njection; SPL=smoke puff limiter; ECM/PCM= all combustion auxiliary power system; ALT=alte (e.g., Otto engines and vehicles);	U (prefix) ≕warm- yygen sensor); TC/SC=turbo/ eng/ne/powertrain			

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 parentheses.).

NMHC		NOx		NMHC+NOx		co		РМ		нсно	
FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	<del> </del>	· · · · · · · · · · · · · · · · · · ·		
0.14	0.14	*	*	+	*	15.5				FIF	EURO
*	*	1.08	1.08	1.2	12	*	*	0.01	0.01		<u> </u>
0.03	0.000	1.08		1.1	+	10	0.1	0.000	0.000		<u> </u>
0.21		1.62		1.0							
	0.14 * 0.03	FTP EURO 0.14 0.14  * * 0.03 0.000	FTP         EURO         FTP           0.14         0.14         *           *         *         1.08           0.03         0.000         1.08	FTP         EURO         FTP         EURO           0.14         0.14         *         *           *         *         1.08         1.08           0.03         0.000         1.08         0.94	FTP         EURO         FTP         EURO         FTP           0.14         0.14         *         *         *           *         *         1.08         1.08         1.2           0.03         0.000         1.08         0.94         1.1           0.21         1.62         1.62	FTP         EURO         FTP         EURO         FTP         EURO           0.14         0.14         *         *         *         *         *           *         *         1.08         1.08         1.2         1.2           0.03         0.000         1.08         0.94         1.1         0.9           0.21         1.63         1.83         1.83         1.83	FTP         EURO         FTP         EURO         FTP         EURO         FTP         EURO         FTP           0.14         0.14         *         *         *         *         15.5           *         *         1.08         1.08         1.2         1.2         *           0.03         0.000         1.08         0.94         1.1         0.9         1.9	FTP         EURO         FTP         EURO         FTP         EURO         FTP         EURO           0.14         0.14         *         *         *         *         15.5         15.5           *         *         1.08         1.08         1.2         1.2         *         *           0.03         0.000         1.08         0.94         1.1         0.9         1.9         0.1	FTP         EURO         FTP         EURO         FTP         EURO         FTP         EURO         FTP         EURO         FTP           0.14         0.14         *         *         *         *         15.5         15.5         0.01           *         *         1.08         1.08         1.2         1.2         *         *         *           0.03         0.000         1.08         0.94         1.1         0.9         1.9         0.1         0.000	FTP         EURO           0.14         0.14         *         *         *         15.5         15.5         0.01         0.01           *         *         1.08         1.2         1.2         *         *         *         *           0.03         0.000         1.08         0.94         1.1         0.9         1.9         0.1         0.000         0.002	FTP         EURO         FT

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.: 2007-02-25)

**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 December 2008.

Annette Hebert, Chief

**Mobile Source Operations Division**