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 FAN	IILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	SERVICE 2	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6
2010	AVPTH10.8	S01	10.8	Diesel	PROCEDURE	CLASS THHDD	DDI, TC, CAC, ECM, EGR, OC, DPF, SCR, SPL	EMD
	ENGINE'S IDLE INS CONTROL		-	ADDI	TIONAL IDLE EN	issions co	NTROL 5	
	30g				N	/A		
ENGINE (L)			ENGINE MODE	LS / CODES (ra	ted power, in	hp)	
10.8		See at	tachment for er	ngine models and ratings	(clean idle eng	gines are la	beled as 50-State compliant engine	s)
L=liter, hp. CNG/LP L/M/H H ECS=er up catalyst; TBi=throttle super chang control mod ESS=er (per 13 CC	=horsepower; kw=k NG=compressed/iqu HDD=light/medium/h mission control syste ; DPF=diesel particu, a body fuel injection; ger; CAC=charge ai Jule; EM=engine mo ngine shutdown syst R 1956.8(a)(6)(D); E	ilowatt; hi efied natu eevy heav m; TWC// late filter; SFI/MFI= r cooler; E dification; em (per 13 exempt=e	=hour; ral ges; LPG=liquef y-duty diesel; UB=u DC=three-way/oxidiz PTOX=periodic trap sequential/multi port GR / EGR-C=exhau- 2 (prefix)=parallel; b CCR 1956.8(a)(6)(x empted per 13 CCF,	ed petroleum gas; E85=85% eth- rban bus; HDO=heavy duty Otto; ing catalyst; NAC=NOx adsorptio oxidizer; HO2S/O2S=heated/oxy, fuel injection; DGI=direct gasolin st gas recirculation / cooled EGR; (2) (euffix)=in series; SCR = Se A\(1); 30g=30 g/hr NOx (per 13 C	anol fuel; MF=multi on catalyst; SCR-L /gen sensor; HAF- le injection; GCAR ; PAIR/AIR=pulsec lective Catalytic Re CR 1956.8(a)(6)(0) fuel systems; N/A	ii fuel a.k.a. BF I / SCR-N=select S/AFS=heated/i B=gaseous car s/secondary air duction system); APS =internal =not applicable	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 o buretor, IDI/DDI=indirect/direct diesel injection; injection; SPL=smoke puff limiter, ECM/PCM= al combustion auxiliary power system; ALT=alt (e.g., Otto engines and vehicles);	U (prefix) =warm- xygen sensor); TC/SC=turbo/ engine/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 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	NM	HC .	N	Ox	NMH	C+NOx	(:0	P	M	н	НО
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	0.20	0.20	*	•	15.5	15.5	*	*	*	*
FEL	*	*	*	*	*	*	*	*	0.00	0.00	*	+
CERT	0.02	0.01	0.13	0.09	*	*	*	*	0.001	0.002	*	*
NTE	0.	21	0.	30		•	19	9.4	0.	02		*

d/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET≃ramp 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;

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.

This Executive Order hereby supersedes Executive Order A-242-0056 dated, November 9, 2009.

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

Executed at El Monte, California on this _____ day of December 2009.

Annette Hebert, Chief
Mobile Source Operations Division

VOIND CONDITION CORDINATION

A-242-0056-1

ATTACKMENT

	1.Engine Code	ngine Family 1.Engine Code 2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (İbs/hr)@peak togqu	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak to <u>gueDevice</u> Per SAE J1930
Z	N/A	MP7-325E	325 @ 1850	188.1	116.2	1282.0 @ 1200	241.3	36.7 (Sit.)	EAM, EC, TC, CAC, DI, EGF
2	N/A	MP7-355E	355 @ 1800	212.4	127.6	1393.2 @ 1200	262.9	105.3	EM,EC,TC,CAC,DI,EGF
Z	N/A	MP7-405E	405 @ 1800	247.6	148.8	1492.6 @ 1200	282.5	113.2	EM,EC,TC,CAC,DI,EGF
2	N/A	MP7-345C	345 @ 1500	236.2	118.3	1391.9 @ 1200	261.7	104.9	EM,EC,TC,CAC,DI,EGF
	N/A	MP7-365C	365 @ 1450	259.7	125.7	1491.0 @ 1200	280.8	112.5	EM,EC,TC,CAC,DI,EGF
	N/A	MP7-395C	395 @ 1500	274.7	137.6	1596.6 @ 1200	304.0	121.8	EM,EC,TC,CAC,DI,EGF
	N/A	MP7-325M	325 @ 1900	186.1	118.1	1215.3 @1200	228.5	91.6	EM,EC,TC,CAC,DI,EGF
	N/A	MP7-365M	365 @ 1900	211.7	134.3	1360.5 @ 1200	257.3	103.1	EM,EC,TC,CAC,DI,EGF
	N/A	MP7-405M	405 @ 1900	239.8	152.2	1512.6 @1200	286.2	114.7	EM,EC,TC,CAC,DI,EGF
,	N/A	D11H-325	325 @ 1700	201.4	114.3	1235.6 @ 1050	234.7	82.3	EM,EC,TC,CAC,DI,EGF
	N/A	D11H-355	355 @ 1700	221.3	125.6	1228.5 @ 1050	235.2	82.5	EM,EC,TC,CAC,DI,EGF
	N/A	D11H-365	365 @ 1700	225.9	128.2	1379.4 @ 1100	260.9	95.8	EM,EC,TC,CAC,DI,EGF
	A/A	D11H-385	385 @ 1700	240.8	136.7	1508.0 @ 1200	284.3	113.9	EM,EC,TC,CAC,DI,EGF
	N/A	D11H-405	405 @ 1800	248.9	149.6	1493.6 @ 1200	284.1	113.8	WEN,EC,TC,CAC,DI,EGF
								The second liver with	

Ple conecte PM NTE