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.

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MODEL	ENGINE FAN	ENGINE FAMILY		FUEL TYPE	STANDARDS & TEST		ECS & SPECIAL FEATURES	DIAGNOSTIC 6				
TEAR					PROCEDURE	CLASS 1	DDI, TC, CAC, ECM, EGR,	EMD+				
2011	BVPTH10.8	BVPTH10.8S02 10.8		Diesel	Diesel	HHDD	PTOX, SCR-U, OC, SPL	EMD+				
PRIMARY	PRIMARY ENGINE'S IDLE 5											
EMISSIONS CONTROL ADDITIONAL IDLE EMISSIONS CONTROL												
30g N/A												
ENGINE ((L) ENGINE MODELS / CODES (rated power, in hp)											
10.8		See attachment for engine models and ratings (clean idle engines are labeled as 50-State compliant engines)										
* =not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc; L=titler; hp=horsepower; kw=kilowatt; hr=hour; CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethagol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel; 2 Li@LHDR=libk/medium/horset horset dual discle; LIB=urban bus; HDQ-boose dub Otto;												

Limm HDD=lignvmedium/neavy heavy-outy diesel; UB=urban bus; HDD=neavy duty Otto; CES=emission control system; TWC/OC=three-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / – ammonia; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter, PTOX=periodic trap oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / – ammonia; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter, PTOX=periodic trap oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / – ammonia; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter, PTOX=periodic trap oxidizer, HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/aviation; SDLDDI=indirect/direct diesel injection; TC/SC=turbo/ super charger, CAC=charge air cooler, EGR / EGR-C=exhaust gas redicution / cooled EGR; PAIR/AIR=pulsed/secondary air/injection; SPL=smoke puff limiter; ECM/PCM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series; SCR = Selective Catalytic Reduction system 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 CNS/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles); EMB=argine manifecturer (factorestic system (factorestic auxiliary power system; factorestic auxiliary power factorestic factorestic factorestic factorestic factorestic factorestic system; factorestic system; factorestic facto

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 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 vieu 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	NMHC		NOX		NMHC+NOx		CO		PM		HCHO	
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	*	* 1	*	*	*	*	*	*	0.00	0.00	*	*
CERT	0.09	0. 01	0.12	0.07	*	*	*	*	0.001	0.001	*	*
NTE	0.21		0.30		*		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=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: 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: That the listed engine models are conditionally certified pending the engine manufacturer full disclosure of the engine family's auxiliary emission control device (AECD) strategies document. The manufacturer must submit the aforementioned document by February 14, 2011. Failure to resolve these related AECD concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification; in which case all engines covered under this conditional certification shall be deemed uncertified pursuant to Health and Safety Code Section 43153 and subject to civil penalties pursuant to Health and Safety Code Section 43154.

California Environmental Protection Agency

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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 2010.

Annette Hebert, Chief Mobile Source Operations Divi**si**on

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM「 (SAE Gross) [†]	4.Fuel Rate: nm/stroke @ peak IP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HF (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@ peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
BVPTH10.8S02	N/A	MP7-345R	345 @ 1600	228.8	122.2	1345 @ 1100	252.2	9 2.6	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S02	N/A	MP7-345C	345 @ 1500	244.7	122.6	1439 @ 1200	271.2	108,7	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S02	N/A	MP7-395C	395 @ 1500	275.3	137.9	1588 @ 1200	303.4	121.6	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S02	N/A	MP7-325M	325 @ 1900	192.3	122.0	1270 @ 1200	240.3	96.3	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S02	N/A	MP7-365M	365 @ 1900	215.4	136.6	1 420 @ 1200	268. 8	107.7	EM,EC,TC,CAC,DI,EGR,DPF,SCR
BVPTH10.8S02	N/A	MP7-405M	405 @ 1900	240.2	152.4	1560 @ 120 0	298.1	119.4	EM,EC,TC,CAC,DI,EGR,DPF,SCR

PTDI, TC, LAR, ECM, EGR PTDX, SCN, DC, SPL

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