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	ENGINE FAMILY BVPTH12.8S01		FUEL TYPE	STANDARDS & TEST		ECS & SPECIAL FEATURES					
2011	BVPTH12.8			Diesel	PROCEDURE Diesel	CLASS - HHDD	DDł, TC, CAC, ECM, EGR, OC, PTOX, SCR-U, OC, SPL	EMD+				
	YENGINE'S IDLE			ADDITIONAL IDLE EMISSIONS CONTROL 5								
30g			N/A									
ENGINE (NE (L) ENGINE MODELS / CODES (rated power, in hp)											
12.8	See attachment for engine models and ratings (clean idle engines are labeled as 50-State compliant engines)											
L=liter; hp CNG/L!	=horsepower; kw=k NG=compressed/liqu	ilowatt; h lefied natu	r=hour; ıral gas; LPG=liquef	-	an ol fuel; MF=mult		R 86.abc=Title 40, Code of Federal Regulations =bi fuel; DF=dual fuel; FF=flexible fuel;	; Section 86.abc;				

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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); 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; 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 parentheses.).

in	NMHC		NOx		NMHC+NOx		CO		PM		нсно	
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	0.01	0.06	0.11	0.10	*	*	*	*	0.003	0.001	*	*
NTE	0.2	21	0	.30		#	19	9.4	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-0-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.

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 Division

Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak H (for diesel only)	5.Fuel Rate: IP(lbs/hr) @ peak HP (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	
BVPTH12.8S01	N/A	D13H - 500	500 @ 1700	307.5	174.5	1812 @ 1050	336.8	1 18.1	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 475	475 @ 1800	279.7	168.1	17 3 4 @ 1050	324.6	113.8	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 435	435 @ 1700	286.7	162.7	1711 @ 1050	317.8	111.4	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 425	425 @ 1700	273.2	155.1	1600 @ 1050	2 97.7	104.4	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 425	425 @ 1700 [°]	258.8	146.9	1807 @ 1 050	340.4	119.3	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 405	405 @ 1700	250.2	142.0	1508 @ 1000	278.1	92.9	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 405	405 @ 1700	246.2	139.8	1732 @ 1050	326.8	114.6	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 375	375 @ 1700	236.7	134.4	15 06 @ 1000	277.6	92.7	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 500P	500 @ 1700	298 .9	169.7	1765 @ 1050	328.3	115.1	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	D13H - 435P	435 @ 1700	26 8.4	152.3	1727 @ 1050	321.3	112.6	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	MP8 - 505E	505 @ 1700	308.2	174.9	1824 @ 1100	340.3	125.0	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	MP8 - 445E	445 @ 170 0	286.0	162.3	1780 @ 1100	330.4	121.3	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	MP8 - 415E	415 @ 1700	26 6.9	151.5	1702 @ 1100	314.4	115.5	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	MP8 - 505C	505 @ 1500	341.9	171.3	1824 @ 1100	336.2	123.5	EM,EC,TC,CAC,DI,EGR,DPF,SCR	`
BVPTH12.8S01	N/A	MP8 - 445C	445 @ 1500	3 11.3	155.9	1780 @ 1100	330.4	121.3	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	MP8 - 415C	415 @ 1 5 00	290.1	145.3	1702 @ 1100	314.4	115.5	EM,EC,TC,CAC,DI,EGR,DPF,SCR	
BVPTH12.8S01	N/A	MP8 - 505M	505 @ 1700	309.2	175.5	1837 @ 1100	340.7	125.1	EM,EC,TC,CAC,DI,EGR,DPF,SCR	Γ
BVPTH12.8S01	N/A	MP8 - 4 55M	455 @ 1700	282.1	160.2	1715 @ 1100	317.9	116.8	EM,EC,TC,CAC,DI,EGR,DPF,SCR	L
BVPTH12.8S01	N / A	MP8 - 425M	425 @ 1700	274.1	155.6	1602 @ 1100	296.6	109.0	EM,EC,TC,CAC,DI,EGR,DPF,SCR	

DDI, TC, CAC, ECM, E EGR, DC, PTOX, SCR, DC, SPL

ATTACHMENT A-242-006 L