California Environmental Protection Agency		EXECUTIVE ORDER A-415-0003
D Air Resources Board	POWER SOLUTIONS INTERNATIONAL INC.	New On-Road Heavy-Duty Engines
Car All Desources Doditi		Page 1 of 1 Pages

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-14-012;

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	ENGINE FAM	IILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES	DIAGNOSTIC 6			
TEAR					PROCEDURE	CLASS	ECM, TWC, SFI, 2HO2S(2)	EMD+			
2015	FPSIE08.80	SIE08.8CNG 8.8		LPG	Otto	HDO					
	ENGINE'S IDLE			ADD!		ISSIONS CO	NTROL ⁵				
	N/A				N	/A					
ENGINE ((L)	ENGINE MODELS / CODES (rated power, in hp)									
8.8	PSI CNG	PSI CNG 235 / Single Fuel CNG 235 (235), PSI CNG 200 / Single Fuel CNG 200 (200), PSI CNG 180 / Single Fuel CNG 180 (180)									
L=liter; hp	=horsepower; kw=k	ilowatt; hi	r=hour;	-			R 86.abc=Title 40, Code of Federal Regulation =bi fuel; DF=dual fuel; FF=flexible fuel;	ns, Section 86.abc;			
2				rban bus; HDO=heavy duty Otto;							
							ctive catalytic reduction – urea / – ammonia; V air-fuel-ratio sensor (a.k.a., universal or linear				

TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=directgasine injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TC/SC=turbo/ super charge; CAC=charge air cooler; EGR / EGRC=excitation / cooled EGR; PAIR/AIR=pulsed/secondary air injection; SPL=smoke pulf limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series;

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)(C); OPS =internal combustion auxiliary power system; ALT=alternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per 13 CC

⁶ EMD+=engine manufacturer diagnostic system (13 CCR 1971.1); 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 parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		CO		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	*
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.03	*	0.10	*	*	*	3.4	*	0.000	*	0.001	*
NTE	*			*	*		*		*		*	

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 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;

 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;

 C0=carbon monoxide;
 PM=particulate matter;
 HCHO=formaldehyde;
 (Rev.: 2007-02-26)

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), 13 CCR 1971.1 (on-board diagnostic), 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 August 2014.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division