## @ Air Resources Board

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 YEAR			ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST PROCEDURE	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 5			
2015	FFMXE06.8B	FFMXE06.8BW5		Gasoline	Otto	HDO	SFI, HO2S, TWC, 2WR-HO2S (for F650 Chassis Cab), 2AFS (for other models)	OBD (F)			
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL  ADDITIONAL IDLE EMISSIONS CONTROL											
N/A			N/A								
ENGINE (	L)	ENGINE MODELS / CODES (rated power, in hp)									
6.8		F450/550 Chassis Cab / FFA18N05, FFA18P05, FFA18S0M; F650 Chassis Cab / DFA18A05, DFA18C05; Step Van / DFA18R05, DFA18S05; Motor Home / DFA18Q05 (362 for all codes)									
L=liter; hp 1 CNG/LI 2 L/M/H I 3 ECS=er up catalyst; WR-HO2S= IDI/DDI=ind SPL=smok 4 ESS=er (per 13 CC	=horsepower; kw=k Morsepower; kw=k IDD=light/medium/h mission control syste DPF=diesel partice, wide range oxygen lirect/direct diesel inj e puff limiter; ECM/h gufne shutdown syste R 1956.8(a)(6)(D): E	ilowatt; lefied n eavy he m; TW late filt sensor; ection; eCM=e em (per Exempt	hr=hour; atural gas; LPG=! pavy-duty diesel; /C/OC=three-way/ er; PTOX=periodi ; TBI=throttle body TC/SC=turbo/ su ggine/powertrain of 1 13 CCR 1956.8(atexempted per 13	liquefied petroleum gas; E8 UB=urban bus; HDO=heav oxidizing catalyst; NAC=N/c trap oxidizer; HO2S/O2S y fuel injection; SFI/MFI=se per charger; CAC=charge control module; EM=engine a)(6)(A)(1); 30g=30 g/hr N/c 3 CCR 1956.8(a)(6)(B) or fc	85=85% ethanol fuel; MF=mu y duty Otto; Ox adsorption catalyst; SCR: =heated/oxygen sensor; HAi quential/multi port fuel injecti air cooler; EGR / EGR-C=er modification; 2 (prefix)=par 0x (per 13 CCR 1956.8(a)(6)(	ulti fuel a.k.a. BF -U / SCR-N=selet FS/AFS=heated/i on, DGI=direct g haust gas recircu allel; (2) (suffix) C); APS =intern: A=not applicable	R 86.abc=Title 40, Code of Federal Regulation =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / – ammonia; W air-fuel-ratio sensor (a.k.a., universal or linear of asoline injection; GCARB=gaseous carburetor lation / cooled EGR; PAIR/AIR=pulsed/second =in series; al combustion auxiliary power system; ALT=ale e (e.g., Otto engines and vehicles);	/U (prefix) =warm- xygen sensor); lary air injection;			

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the SET 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, SET 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	NM	HC	NOx .		NMHC+NOx		co		PM		нсно	
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	*
CERT	0.05	*	0.03	*	*	*	2.7	*	0.003	*	0.002	*
NTE	,		*		*		*		*		*	
4												

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET= 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:** 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, full or partial compliance), 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.

This Executive Order hereby supersedes Executive Order A-010-1814-1 dated May 6, 2014.

Executed at El Monte, California on this day of December 2014.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division