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 FAMILY	ENGINE SIZES (L)	FUEL TY	PE 1	STANDARDS & TEST PROCEDURE	INTENDED 2	ECS & SP	ECIAL FEATURES 3	DIAGNOSTIC 6
2017	HFMXE06.8BW6	6.8	Gasoline		Otto	HDO	TWC, SFI, HO2S, 2WR-HO2S		OBD(P)
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL 5 ADDITIONAL IDLE EMISSIONS CONTROL 5									
N/A				:			N/A		
ENGINE (	L)	ENGINE MODELS / CODES (rated power, in hp)							
6.8		F-650/750 Chassis Cab / GBC18A05; GBC18B05; Motor Home / GFA18J05, GFA18Q05; Step Van / GFA18K05, GFA18R05; F450/550 / GFE18N05, GFE18P05; Blue Bird Bus / GE918A05, GE918B05 (320 for all codes)							
L=liter; hp= 1 CNG/LN 2 L/M/H H 3 ECS=en up catalyst; HO2S=wide diesel inject ECM/PCM= 5 ESS=en (per 13 CCI	=horsepower; kw=kilowe NG=compressed/liquefiec HDD=light/medium/heavy mission control system; DPF=diesel particulate a range oxygen sensor; T titon; Tc/SC=turbo/ supe rengine/powertrain contri ngine shutdown system (i R 1956.8(a)(6)(D); Exen	att; hr=hour; I natural gas; heavy-duty d FWC/OC=thre filter; PTOX= Bl=throttle br r charger; C/ of module; El per 13 CCR 1 npt=exemptee	LPG=lique liesel; UB= ee-way/oxid periodic tra ody fuel inje AC=charge M=engine n 956.8(a)(6) d per 13 CC	efied pourban izing composid posid p	etroleum gas; E85=859 bus; HDO=heavy duty Jatalyst; NAC=NOx ads izer; HO2S/O2S=heate SFI/MFI=sequential/mu Jor; EGR / EGR-C=ext Jaton; 2 (prefix)=paralli ; 30g=30 g/nr NOx (per 8.6 8(a)(6)(B) or for CNG	% ethanol fuel; MF=multi Otto; sorption catalyst; SCR-U ad/oxygen sensor; HAFS ulti port fuel injection; DG haust gas recirculation / c el; (2) (suffix)=in series; 13 CCR 1956.8(e)(6)(C) /LNG fuel systems; N/A	fuel a.k.a. BF=bi fuel; C / SCR-N=selective catal) B/AFS=heated/air-fuel-rational Bi-direct gasoline injection cooled EGR; PAIR/AIR=		; WU (prefix) =warm- ar oxygen sensor); WR IDI/DDI=indirect/direct PL=smoke puff limiter;

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 heavy-duty 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.).

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD(F) / (P) / (\$)=full / partial / partial with a fine / on-board diagnostic;);

in [	NMHC		NOx		СО		PM		нсно	
g/bhp-hr	FTP	SET .	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	*	0.20	*	14.4	*	0.01	*	0.01	.*
CERT	0.08	*	0.08	*	12.9	*	0.002	*	0.000	*
NTE	*		*		*		*		*	
							17-11-11-11	. amp	1 1 1	

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: The manufacturer has demonstrated compliance with the Greenhouse Gas Emission Standards as specified in Title 13 CCR 1956.8 and the incorporated "California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy Duty Otto Cycle Engines and Vehicles" (HDOE Test Procedures) adopted Dec. 27, 2000, as last amended Sep. 2, 2015 using the 2014 model year National Heavy-Duty Engine and Vehicle Greenhouse Gas Program as specified in Section 1036.108 of the HDOE Test Procedures. The manufacturer has submitted the required information and therefore has met the criteria necessary to receive a California Executive Order based on the Environmental Protection Agency's Certificate of Conformity for the above listed engine family.

		OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS  VOCATIONAL		
	HFMXE06	.8BW6-004			
In	С	Q₂	CU	No.	
g/bhp-hr	FTP	SET	CH₄	N₂O	
STD	627	*	0.10	0.10	
FCL	627	*	*	*	
FEL	646	*	0.10	0.10	
CERT	619	*	0.07	0.03	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=Supplemental emissions testing; STD ≈ standard or emission test cap; FEL=family emission limit; FCL=family certification level; CERT=certification level; CO₂=carbon dioxide; CH₄=methane; N₂O=nitrous oxide; VOCATIONAL=vocational engine; TRACTOR=tractor engine

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BE IT FURTHER RESOLVED: Certification to the FEL(s) / FCL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) / FCL(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), 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.

Executed at El Monte, California on this

\_ day of December 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division