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 TYPE 1	STANDARDS & TEST	INTENDED 2	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6
2016	GZ9XE06.8DC6	312E3 (L)	0110	Otto	HDO		EMD+
		6.8	CNG			ECM, TWC, SFI, HO2S, 2WR-HO2S	
PRIMARY	ENGINE'S IDLE EMIS	SIONS CO	NTROL 5		ADDITIONA	AL IDLE EMISSIONS CONTROL 5	
	N/A					N/A	
ENGINE (L)	ENGINE MODELS / CODES (rated power, in hp)					
6,8		F-650 / G6.8DC6 (251)					
CNG/LI CNG/LI L/M/H I ECS=e up catalyst	=horsepower; kw=kilowa NG=compressed/liquefied HDD=light/medium/heavy mission control system; DPF=diesel particulate	att; hr=hour, d natural gas; heavy-duty d TWC/OC=thre filter, PTOX=	LPG=liquefied per liesel; UB=urban l ee-way/oxidizing ca eperiodic trap oxidi	troleum gas; E85=85 ous; HDO=heavy dut stalyst; NAC=NOx ac zer; HO2S/O2S=hea	5% ethanol fuel; MF=multi l y Otto; dsorption catalyst; SCR-U / ted/oxygen sensor; HAFS/	in xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulat fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel; SCR-N=selective catalytic reduction – urea / – ammonia; AFS=heated/air-fuel-ratio sensor (a.k.a., universal or line; ledirect gasoline injection; GCARB=gaseous carburetor.	; WU (prefix) ≃warm- ar oxygen sensor); WR

HO25=wide range oxygen sensor, TBI=Ihrottle body fuel injection; SFIMFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor, IDI/DDI=indirect/direct diesel injection; TC/SC=lurbo/ super charger, CAC=charge air cooler, EGR/ EGR-C=exhaust gas recirculation / cooled EGR; PAIR/AIR=pulsed/secondary air injection; SPL=smoke pulf limiter, ECM/PCM-engine/powertrain control module; EM=engine modification; 2 (prefix)=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)(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(F) / (P) / (\$)=full / partial / partial with a fine / on-board diagnostic;);

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 [1] 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		co		PM		нсно	
	FTP	SET								
STD	0.14	*	0.20	*	14.4		0.01	*	0.01	*
CERT	0.07	*	0.04		1.4		*	*	0.01	
NTE	*				-			*	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 Oct. 21, 2014 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.

	EPA CERTIFICATI	OF CONFORMITY	PRIMARY INTENDE	D SERVICE CLASS	
	GZ9XE06	.8DC6-002	VOCATIONAL		
ln	C	O ₂	CH ₄	N ₂ O	
g/bhp-hr	FTP	SET			
STD		*	4:-	*	
FCL	*			*	
FEL		*		*	
CERT	*	*	*	3-	

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

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.

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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 Oct. 21, 2014 using the alternate emission standards as specified in Section 1036.108(a)(4) of the HDOE test procedures.

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 March 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division