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 FAM	ILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST PROCEDURE	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6	
2017	HGKTE06.0PRO		6.0	LPG	Otto	CLASS HDO	2TWC, 2HO2S(2), SFI	EMD+	
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL 5 ADDITIONAL IDLE EMISSIONS CONTROL 5									
	N/A N/A								
ENGINE (I	L)			ENGINE MODE	LS / CODES (ra	ted power, in	hp)	\$ 15 (5.5)	
6.0	V8 / 60585111 (323), 20 (322), 30, (323), 40 (323), 50 (307), 60 (307)								
= not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc; L=liter; hp=horsepower; kw=kilowatt; hr=hour;  CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=mutit fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel;  L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;  ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / – ammonia; WU (prefix) = warm-lup catalyst; DFF=dlesel particulate filter; PTOX=periodic trap oxidizer; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/alr-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor);									
TBI=throttle super charg control mod ESS=en	e body fuel injection; ger; CAC=charge ai iule; EM≂engine mo ngine shutdown syste	SFI/MFI= cooler; Edification; em (per 13	sequential/multi por GR / EGR-C=exhau 2 (prefix)=parallel; CCR 1956.8(a)(6)(	t fuel injection; DGI=direct gasolii ust gas recirculation / cooled EGR (2) (suffix)≐in series; AMOX: ar A)(1); 30g=30 g/hr NOx (per 13 (	ne injection; GCAR ;; PAIR/AIR=pulse nmonia oxidation ca CCR 1956.8(a)(6)(C	B=gaseous card/secondary air atalyst ); APS =interna	buretor; IDI/DDI=Indirect/direct diesel injection injection; SPL=smoke puff limiter; ECM/PCM= al combustion auxiliary power system; ALT=al (e.g., Otto engines and vehicles);	n; TC/SC=turbo/ =engine/powertrain	
° EMD≃e	engine manufacturer	diagnostic	system (13 CCR 19	971); OBD(F)/(P)/(\$)=full/ partial/	partial with fine/ on	-board diagnost	ic.		

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 parenthéses.).

in	NMHC		NOx '		NMHC+NOx		co		PM		нсно	
g/bhp-hr	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	*
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.002	*	0.12	*	*	*	4.5	*	0.001	*	0.01	*
NTE	*		,	k .		*	,	*	,	k		k

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 Greenhouse Gas Emissions Standards as specified in Title 13 ccr 1956.8 and the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy Duty Otto cycle Engines and Vehicles" (HDEO 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 1038.108 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	E OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS  VOCATIONAL			
	HGKTE06	5,0PRO-002				
In	<u> </u>	GO <sub>2</sub>	CH4	N₂O		
g/bhp-hr	FTP	SET	GH₄			
STD	*	*	* .	*		
FCL	*	*	*	*		
FEL	*	*	*	*		
CERT	*	*	*	*		

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: The manufacturer has demonstrated compliance with the Greenhouse Gas Emission Standards as specified in Title 13 CCR 1956.8 and incorporate "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 Interim Provisions as specified in Section 1036.150(d) 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 (engine manufacturer 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 February 2017

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division