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 PROCEDURE	SERVICE CLASS	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
	2.10.112.17.11	ENGINE I FIME					DDI, TC(2), CAC, ECM, EGR,					
2016	GFPXH03.0	F1B	3.0	Diesel	Diesel	LHDD	PTOX, SCR-U, AMOX	OBD(\$)				
	ENGINE'S IDLE			A	DDITIONAL IDLE EN	IISSIONS CON	TROL 5					
	30g	N/A										
ENGINE (L	-)	ENGINE MODELS / CODES (rated power, in hp)										
3.0					4P10 / F1C (16	(1)						
CNG/LN L/M/H H ECS=en up catalyst; TBI=throttle	IDD=light/medium/he nission control syste DPF=diesel particu body fuel injection; ser. CAC=charge ali	efied nature eavy heavy m; TWC/0 late filter, SFI/MFI= cooler, E	ral gas, LPG=liquefier  /-duty diesel, UB=urb  OC=three-way/oxidizin  PTOX=periodic trap of sequential/multiport fig.  GR / EGR-C=exhaust	an bus; HDO=heavy duty ( ng catalyst; NAC=NOx adso oxidizer; HO2S/O2S=heated uel injection; DGI=direct ga	Otto, prption catalyst; SCR-L d/oxygen sensor, HAF; soline injection; GCAR EGR: PAIR/AIR=pulset	/ SCR-N=selec S/AFS=heated/a B=gaseous cart d/secondary air i	bi fuel; DF=dual fuel; FF=flexible fuel; tive catalytic reduction – urea / – ammonia; V iir-fuel-ratio sensor (a.k.a., universal or linear buretor, IDI/DDI=indirect/direct diesel injection injection; SPL=smoke puff limiter; ECM/PCM	oxygen sensor); n; TC/SC=turbo/				

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.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		co		PM		нсно	
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	0.14	0.20	0.20	*		15.5	15.5	0.01	0.01	*	
FEL	*		*	*	*	*	*	*	*	*		*
CERT	0.004	0.000	0.16	0.06	1.71		0.1	0.1	0.002	0.001	ind to	*
NTE	0.	21	0.	30		*	19	9.4	0.	02		

4 g/bhp-hr=grams per brake horsepower-hour, FTP=Federal Test Procedure; SET= supplemental emissions testing; NTE=Not-to-Exceed emission limit; 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 Diesel-Engines and Vehicles" (HDDE Test Procedures) adopted Dec. 27, 2002, 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 HDDE Test Procedures. For the listed California-only engine family, the manufacturer has submitted the required greenhouse gas information.

	EPA CERTIFICATI	OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS  VOCATIONAL			
	GFPXH03	0.0F1B-002				
In	C	O <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O		
g/bhp-hr	FTP	SET				
STD	600		0.10	0.10		
FCL	585	*		*		
FEL	603	•	0.10	0.10		
CERT	580	*	0.02	0.09		

<sup>4</sup> 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.

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" (HDDE Test Procedures) adopted December 12, 2002, as last amended April 18, 2013, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

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).

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified in accordance with 13 CCR Section 1971.1(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the heavy-duty on-board diagnostic (HD OBD) system of the listed engine models has been determined to have twenty-four deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$500 per engine for the third to twenty-fourth deficiencies in the listed engine family that is produced and delivered for sale in California. On a quarterly basis, the manufacturer shall submit to the Air Resources Board reports of the number of engines produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2016 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all engines covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$5000 per engine pursuant to HSC Section 43154.

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 November 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division