Pursuant to the authority vested in California 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-19-095;

**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 <sup>1</sup>	STANDARDS & TEST		ECS & SPECIAL FEATURES <sup>3</sup>	DIAGNOSTIC <sup>6</sup>
TEAN			312E3 (L)		PROCEDURE	CLASS <sup>2</sup>	TC, DFI, CAC, EGR, EGRC, ECM,	OBD(\$)
2020	LFMXH06.7	P5C	6.7	Diesel	Diesel	MHHD	PTOX, DOC, SCR-U, NOXS, UQS	OBD(\$)
	PRIMARY ENGINE'S IDLE EMISSIONS CONTROL <sup>5</sup> ADDITIONAL IDLE EMISSIONS CONTROL <sup>5</sup>							
30g N/A								
ENGINE (	SINE (L) ENGINE MODELS / CODES (rated power, in hp)							
6.7		4V F-Series / LTFETRDX (330) 4V F-Series / LTFETRDY (330)						
* =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=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel;

<sup>3</sup> 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-up catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidizer; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TC/SC=turbo/super charger; CAC=charge air cooler; EGR / EGR-0=exhaust gas recirculation / cooled EGR; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=ns eries;
<sup>5</sup> ESS=engine shutdown system (ner 13 CCB 1056 9(c/V/A/A); 20= 00=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0; 10=0;

5 ESS=engine hutdown 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 heavyduty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. 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.). <sup>4</sup> "Diesel" CO, SET and NTE certification compliance may have been demonstrated by the manufacturer as provided

in	NMHC		NOx		NMHC+NOx		CO		РМ		нсно	
g/bhp-hr	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	*	*
CERT	0.003	0.000	0.11	0.06	*	*	0.2	0.03	0.001	0.000	*	*
NTE	0.1	21	0.	30		*	19	).4	0.	02	*	r
4 a/bhn-hr=arams per brake horsenower-hour: FTP=Federal Test Procedure: SFT=Supplemental emissions testing: NTE=Not-to_Evceed: STD=standard or emission test can: FEI=family												

FTP=Federal Test Pro NTE=Not-to 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 December 12, 2002, as last amended April 18, 2019 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. 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 CERTIFICAT	E OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS			
	LFMXH0	6.7P5C-006	Vocational			
In		CO <sub>2</sub>	011			
g/bhp-hr	FTP	SET	CH₄	N <sub>2</sub> O		
STD	576	*	0.10	0.10		
FCL	552	*	*	*		
FEL	569	*	0.10	0.10		
CERT	540	*	0.01	0.05		
<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; C0 <sub>2</sub> =carbon dioxide; CH₄=methane; N₂0=nitrous oxide; VOCATIONAL=vocational engine; TRACTOR=tractor engine						

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:** Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this

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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, 2019, 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:** The listed engine models is 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 has been determined to have five deficiencies, and therefore is approved subject to the manufacturer paying a fine of \$125 per engine for the third through fifth deficiencies in the listed engine family that is produced and delivered for sale in California. On a quarterly basis, the manufacturer shall submit to California 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 2020 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 \$37,500 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 October 2020.

Allen Lyons, Chief Emissions Certification and Compliance Division