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 FAMIL	Y ENGINE SIZES (L)	FUEL TYPE ¹	STANDARDS & TEST PROCEDURE	SERVICE CLASS	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 5				
2016	GPCRH10.8N	10.8	Diesel	Diesel	HHDD	ECM, PTOX, EGR, SCR-U, OC, DDI, TC,CAC	OBD (\$)				
	PNS CONTROL		ADDITIONAL IDLE EMISSIONS CONTROL4								
	30g	N/A.									
ENGINE (ENGINE (L) ENGINE MODELS / CODES (rated power, in hp)										
10.8	See attachment for engine models and ratings										
L=liter; hp CNG/L L/M/H I ECS=e	=horsepower; kw=k NG=compressed/liqu HDD=light/medium/hi mission control syste	ilowatt; hr=hour; lefied natural gas; eavy heavy-duty di em; TWC/OC=three	LPG=liquefied petresel; UB=urban buse-way/oxidizing cat	roleum gas; E85=8 us; HDO=heavy du alyst; NAC=NOx a	35% ethanol fue aty Otto; adsorption cataly	tions, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulary, MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel; st; SCR-U / SCR-N=selective catalytic reduction – urea / – ammoni asor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or line).	a; WU (prefix) =warm-				

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-C=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)=in series; AMOX=ammonia oxidation catalyst

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; OBD(F) / (P) / (\$)=full / partial / partial with fine / on-board diagnostic;

(2012-08-20)

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO 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, EURO 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	NMHC		NOx		NMHC+NOx		со		₽M		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	*	*
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.001	0.000	0.08	0.04	*	*	0.2	0.01	0.001	0.002	*	*
NTE	0.21		0.	30	*		19.4		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. 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 CERTIFICATE PCR-ONH		PRIMARY INTENDED SERVICE CLASS TRACTOR / VOCATIONAL				
ln .	CC						
g/bhp-hr	FTP	SET	CH₄	N ₂ O			
STD	567	475	0.10	0.10			
FCL	509	468	*	*			
FEL	524	482	, *	*			
CERT	502	462	0.02	0.08			

deg/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

THE THE YEAR

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⊘ Air Resources Board

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).

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), 30g rating 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" 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: 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 deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$500 per engine for the third through twentieth 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 January 2016.

Annette Hebert, Chief 2 Emissions Compliance, Automotive Regulations and Science Division Affarbanant 1st 1

Engine Model Summary Template

A-384-0022

Engine Family	1.Engine Code	2.Engine Model	3.BHP @RPM (SAE Gross)	4.Fuel Rate: (mm^3/stroke) @peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @peak HP (for diesels only)	6.Torque (ft-lb) @RPM (SEA Gross)	7.Fuel Rate: (mm^3/stroke) @peak torque	8.Fuel Rate: (lbs/hr) @peak torque	9.Emission Control Device Per SAE J1930
GPCRH10.8M01	430 hp	MX-11 320 V	430@1695 rpm	245.6	140.2	1550@1400		134.1	EC/NOC/DPF/SCR/EGR
GPCRH10.8M01	430 hp MT	MX-11 321 V	430@1695	245.6	140.2	1550@1400		134.1	EC/DOCYDPF/SCR/EGR
GPCRH10.8M01	425 hp	MX-11 317 V	425@1695	243.3	138.8	1450@1479		132.1	EC/DOC/DPF/SCR/EGR
GPCRH10.8M01	385 hp	MX-11 287 V	385@1695	218.4	124.7	1450@1350	264.4	120.2	EC/DOC/DPF/SCR/EGR
GPCRH10.8M01	375 hp	MX-11 280 V	. 370@1695	212.9	121.5	1350@1400	245.7	115.8	EC/DOC/DPF/SCRAEGR
GPCRH10.8M01	355 hp	MX-11 265 V	355@1695	200.9	114.7	1250@1440	226.3	109.7	EC/DOC/DPF/SCR/EGR

EUM, PTOX, EGR, SCR. J DC, DDF, TC, CAC for all models