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	IILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6		
2016	GCEXH0729	XBB	11.9	CNG/LNG	PROCEDURE	CLASS TUB	TBI, TC, CAC, ECM, EGR, TWC, HO2S	EMD+		
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL		, ADDITIONAL IDLE EMISSIONS CONTROL 5								
E	EXEMPT		N/A							
ENGINE ((L)			ENGINE MODE	LS / CODES (rat	ed power, in	hp)			
11.9		ISX 12 G 400CC / 4745;FR20709 (400), ISX12 G 400CC / 4745;FR20760 (400)								
L=liter; hp CNG/L! L/M/H F ECS=er up catalyst; TBI=throttle super charge	=horsepower; kw=k NG=compressed/liqu HDD=light/medium/h mission control syste ; DPF=diesel partico, e body fuel injection; ger; CAC=charge ai	ilowatt; he lefied natu leavy heav lem; TWC/l late filter; SFI/MFI= r cooler; E	r=hour; ral gas; LPG=liquef y-duty diesel; UB=u OC=three-way/oxidiz PTOX=periodic trap sequential/multi port EGR / EGR-C=exhau	ed petroleum gas; E85=85% ethichan bus; HDO=heavy duty Otto; ing catalyst; NAC=NOx adsorptic oxidizer; HO2S/O2S=heated/oxy fuel injection; DGI=direct gasolin	anol fuel; MF=mult on catalyst; SCR-U ygen sensor; HAFS te injection; GCAR	i fuel a.k.a. BF / SCR-N=selec S/AFS=heated/i B=gaseous car	R 86.abc=Title 40, Code of Federal Regulation: =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / – ammonia; W air-fuel-ratio sensor (a.k.a., universal or linear o buretor; IDI/DDI=indirect/direct diesel injection; injection; SPL=smoke puff limiter; ECM/PCM=	/U (prefix) =warm- xygen sensor); TC/SC=turbo/		
5 - ESS=er (per 13 CC	ngine shutdown syst R 1956.8(a)(6)(D); I	em (per 13 Exempt=e	3 CCR 1956.8(a)(6)(A xempted per 13 CCF	A)(1); 30g=30 g/hr NOx (per 13 C	fuel systems; N/A	=not applicable	al combustion auxiliary power system; ALT=alt (e.g., Otto engines and vehicles);	ernative method		

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	NM	HC	NOx		co		PM		нсно	
	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	0.03	0.01	/0.12	0.02	6.2	4.5	0.003	0.001	*	*
NTE	0.21		0.30		19.4		0.02		*	

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: For the listed California-only engine family, the manufacturer has demonstrated compliance with the Greenhouse Gas Emission Standards as specified in Title 13 CCR 1956.8 and part 1036 of 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. 12, 2002, as last amended Oct. 21, 2014.

	EPA CERTIFICATI	OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS VOCATIONAL		
	5	*			
In .	C	O ₂	CH₄	N₂O	
g/bhp-hr	FTP	SET			
STD	555	*	0.10	0.10	
FCL	506	*	*	*	
FEL	521	*	1.40	*	
CERT	506	*	1.06	0.03	

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: That the listed engine family is certified to the Alternate Phase-in CO₂ Emission Standards as specified in 13 CCR 1956.8 and section 40 CFR 1036.150 (e) as incorporated in the "California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy Duty Diesel-Engines and Vehicles" adopted Dec. 12, 2002, as last amended Oct. 21, 2014.

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.

CUMMINS INC.

EXECUTIVE ORDER A-021-0634 New On-Road Heavy-Duty Engines Page 2 of 2 Pages

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 October 2015.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division