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	INTENDED SERVICE CLASS 2	ECS & SPECIAL FEATURES 3 DDI, TC, CAC, ECM, EGR, OC,	DIAGNOSTIC ⁶ OBD(\$)				
2015	FCEXH0540	FCEXH0540LAT		Diesei	Diesel	UB / UB-Hybrid	PTOX, SCR-U, AMOX					
1	Y ENGINE'S IDLE INS CONTROL				ADDITIONA	ADDITIONAL IDLE EMISSIONS CONTROL ⁵						
Exempt			N/A									
ENGINE (ENGINE MODELS / CODES (rated power, in hp)											
8.9	ISL9 330 / 3665;FR93439 (310), ISL9 280 / 3665;FR93441 (285), ISL9 330 / 4526;FR94677 (310),											
8.9	9 ISL9 280 / 4526;FR94678 (285), ISL9 330 / SC99241 (310) (Hybrid Model), ISL9 330 / SC91903 (310) (Hybrid Model)											
L=liter; hp 1 CNG/L 2 L/M/H I 3 ECS=e up catalyst	=horsepower; kw=k NG=compressed/liqu HDD=light/medium/h mission control syste : DPF=diesel partice	tilowatt; he defied natu eavy heav em; TWC/ date filter;	r=hour; iral gas; LPG=lic ry-duty diesel; Ul OC=three-way/o: PTOX=periodic	quefied petroleum g B=urban bus; HD0 xidizing catalyst; N trap oxidizer; HO2	gas; E85=85% ethanol fue D=heavy duty Otto; IAC=NOx adsorption cata 2S/O2S=heated/oxygen se	el; MF=multi fuel a.k.a. BF=bi lyst; SCR-U / SCR-N=selectiv ensor; HAFS/AFS=heated/air-	6.abc=Title 40, Code of Federal Regulations, fuel; DF=dual fuel; FF=flexible fuel; e catalytic reduction – urea / – ammonia; WU fuel-ratio sensor (a.k.a., universal or linear oxy	(prefix) =warm-				

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/ar-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-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;

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 (13 CCR 1971); OBD(F) / (P) / (\$)=full / 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 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		со		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	0.01	0.003	0.13	0.08	*	*	0.1	0.02	0.000	0.000	*	*
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: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(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: 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 nine deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$225 per engine for the third through ninth 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 2015 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.

BE IT FURTHER RESOLVED: The Cummins hybrid engine ratings listed on this Executive Order may only be used with new on-road Allison hybrid system models and BAE hybrid system models whose on-board diagnostic system have been approved as compatible.

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.

This Executive Order hereby supersedes Executive Order A-021-0622 dated October 15, 2014.

Executed at El Monte, California on this ____

_ day of February 2015.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division