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	ENGINE FAMILY	ENGINE	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6			
TEAR		SIZES (L)		PROCEDURE	CLASS 2	TBI, TC, CAC, ECM, EGR, TWC,	EMD+			
2015	FCEXH0540LBH	8.9	CNG/LNG	Diesel	HHDD	HO2S				
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL 5 EXEMPT N/A										
ENGINE (L) ENGINE MODELS / CODES (rated power, in hp)										
8.9		See attachment for engine models and ratings								
*=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;										

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. "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	NMHC		NOx		NMHC+NOx		co		PM		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	0.13	0.06	0.13	0.01	*	*	14.2	11.6	0.002	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 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 2014.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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; L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;

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; HO25/O2S=heated/oxygen sensor; HAFSi/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-C=exhaust gas recirculation / cooled EGR; PAIR/AIR=pulsed/secondary air injection; SPI-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=on-board diagnostic system (13 CCR 1971.1);

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Engine Model Summary Template

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque		9.Emission Control eDevice Per SAE J1930
FCEXH0540LBH	3519;FR93287	ISL G 250	250@2200	N/A	N/A	730@1300	N/A	N/A	H02S, PCM, TWC/
FCEXH0540LBH	3519;FR93284	ISL G 260	260@2200	N/A	N/A	660@1300	N/A	N/A	HOSS, PCM, TWC,
FCEXH0540LBH	3519;FR93282	ISL G 280	280@2200	N/A	N/A	900@1300	N/A	N/A	H025, PCM, TWC,
FCEXH0540LBH	3519;FR93279	ISL G 300	300@2100	N/A	N/A	860@1300	N/A	N/A	H02S, PCM/TWC,
FCEXH0540LBH	3519;FR93276	ISL G 320	320@2100	N/A	N/A	1000@1300	N/A	N/A	HO2S, PCM, TWC,
FCEXH0540LBH	3519;FR94391	ISL G 250	250@2200	N/A	N/A	73 0 @1300	N/A	N/A	HO2S, PCM, TWC,
FCEXH0540LBH	3519;FR94388	ISL G 260	260@2200	N/A	N/A	660@1300	N/A	N/A	H02S, CM, TWC,
FCEXH0540LBH	3519;FR94386	ISL G 280	280@2200	N/A	N/A	900@1300	N/A	N/A	H025, PCM, TWC,
FCEXH0540LBH	3519;FR94383	ISL G 300	300@2100	N/A	N/A	860@1300	N/A	N/A	HOZS, PCM, TWC,
FCEXH0540LBH	3519;FR94380	ISL G 320	320@2100	N/A	N/A	1000@1300	N/A	N/A	HO2S, PCM, TWC.

