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	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
TEAR		312E3 (L)		PROCEDURE	CLASS	DDI, TC, CAC, ECM, EGR, OC,	OBD(\$)				
2015	FCEXH0912XAT	14.9	Diesel	Diesel	HHDD	PTOX, SCR-U					
1	'ENGINE'S IDLE NS CONTROL		ADDI	TIONAL IDLE EN	IISSIONS CO	NTROL 5					
30g N/A											
ENGINE (L)		ENGINE MODE	LS / CODES (ra	ted power, in	hp)					
14.9		See attachment for engine models and ratings									
*	Ì			*							
*				*							
*				*							
*				*							

*=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; Leiter; hp=horsepower; kw=kilowatt; hr=hour;

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	NWHC		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	*	*	0.31	0.31	*	*	*	*	*	*	*	*
CERT	0.01	0.002	0.22	0.12	*	*	1.1	0.6	0.001	0.001	*	*
NTE	0.21		0.46		*		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; 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: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), 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" (HDDE Test Procedures) adopted Dec. 12, 2002, as last amended Apr. 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: 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).

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; 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-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=coning shutdown system; (pr. 13 CCR 4565 8(AVSVA) 43 - 20 cm h Nov. (cm. 14 CCR 456 8(AVSVA) 43 - 20 cm. h Nov. (cm. 1

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 eight deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$275 per engine for the third through eighth 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.

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

9-26-2014

Attachment: Page 1.f1

Fo#: A-021-0613

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	8.Fuel Rate: (lbs/hr)@peak torqu	9.Emission Control
FCEXH0912XAT	3937;FR11085	ISX15 450ST	461@1698	264	151	1750@1000	319	108	SCRC, PTOX, PG
FCEXH0912XAT	3937;FR11084	ISX15 450ST	461@1698	264	151	1650@1000	299	101	SCRC, PTOX, PC
FCEXH0912XAT	3937;FR11083	ISX15 450	461@1698	264	151	1650@1000	299	101	SCRC, PTOX, PC
FCEXH0912XAT	3937;FR11082	ISX15 450	461@1698	264	151	1550@1000	281	95	SCRC, PTOX, PC
FCEXH0912XAT	3937;FR11081	ISX15 425ST	436@1698	248	142	1750@1000	319	108	SCRC, PTOX, PC
FCEXH0912XAT	3937;FR11080	ISX15 425ST	436@1698	248	142	1650@1000	299	101	SCRC, PTOX, PC
FCEXH0912XAT	3937;FR11079	ISX15 425	436@1698	248	142	1650@1000	299	101	SCRC, PTOX, PC
FCEXH0912XAT	3937;FR11078	ISX15 400ST	410@1698	232	133	1750@1000	319	108	SCRC, PTOX, PC
FCEXH0912XAT	393 7 ;FR11077	ISX15 400ST	410@1698	232	133	1650@1000	299	101	SCRC, PTCX, PC
FCEXH0912XAT	3937;FR11076	ISX15 400	410@1698	232	133	1450@1000	261	88	SCRO, PTOX, PC
FCEXH0912XAT	3937;FR11227	ISX15 450ST2	461@1698	264	151	1750@1000	319	108	SCRC PTOX, PC
FCEXH0912XAT	3937;FR11228	ISX15 415ST2	425@1698	241	138	1650@1000	299	101	SCRC, PTOX, PC
FCEXH0912XAT	3937;FR11176	ISX15 475	475@1698	261	159	1650@1000	299	101	SCRC, ATOX, PC
FCEXH0912XAT	4583;FR11276	ISX15 450ST	461@1698	264	151	1750@1000	319	108	SCRC, PTOX, PC
FCEXH0912XAT	4583;FR11275	ISX15 450ST	461@1698	264	151	1650@1000	299	101	SCRC, PTOX, PC
FCEXH0912XAT	4583;FR11274	ISX15 450	461@1698	264	151	1650@1000	299	101	SCRC, PTDX, PC
FCEXH0912XAT	4583;FR11273	ISX15 450	461@1698	264	151	1550@1000	281	95	SCRC, PTOX, PC
FCEXH0912XAT	4583;FR11272	ISX15 425ST	436@1698	248	142	1750@1000	319	108	SCRC, PTOX, PC
FCEXH0912XAT	4583;FR11271	ISX15 425ST	436@1698	248	142	1650@1000	299	101	SCRC,PTQX,PC
FCEXH0912XAT	4583;FR11270	ISX15 425	436@1698	248	142	1650@1000	299	101	SCRO, PTOX, PC
FCEXH0912XAT	4583;FR11269	ISX15 400ST	410@1698	232	133	1750@1000	319	108	SCR¢, PTQX, PC
FCEXH0912XAT	4583;FR11268	ISX15 400ST	410@1698	232	133	1650@1000	299	101	SCRC, PTOX, PC
FCEXH0912XAT	4583;FR11267	ISX15 400	410@1698	232	133	1450@1000	261	88	SCRC, PTOX, PC
FCEXH0912XAT	4583;FR11298	ISX15 450ST2	461@1698	264	151	1750@1000	319	108	SCRC, PTOX PC
FCEXH0912XAT	4583;FR11299	ISX15 415ST2	425@1698	241	138	1650@1000	299	101	\$CRC, PTOX, PC

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