

Pursuant to the authority vested in California 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-19-095;

IT IS ORDERED AND RESOLVED: The following on-road motor vehicles with a manufacturer's GVWR over 14000 pounds are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

		1,10				ENGINE D	ESCRIPTION				
MANUFACTURE	R	EXECUTIVE ORDER	MOD		NE FAMILY	ENGINE SIZES (L)	FUEL TYPE ¹	- 8	NDARDS TEST CEDURE	INTENDED SERVICE CLASS 2	ECS & SPECIAL FEATURES 3
ROUSH INDUSTR INC.	IES,	A-344-0114	202	0 LRI	IE07.3BL1	7.3	LPG		Otto	HDO	TWC, HO2S, SFI, 2WR-HO2S
Gasoline, LPG	or Alcol	noi Vehicles C	nly				VEHICLE	DESCR	IPTION		
EVAPORATI	VE		UEL TANK VEHICLE CAPACITY MODEL VEHICLE MAKE & MOD		AKE & MODELS		ENGINE	EN	GINE MODELS / CODES		
FAMILY	UL (K)	CAPACITY MODEL VEHICLE MAKE & MODELS			(rated power, in hp)						
		41, 64				Rous	h E-Series				E-Series / LLE41FSR5
	l	30, 49, 50 67.5, 7				Roush Med	dium Duty Truck			Mediu	m Duty Truck / LLFC1FSR5
LRIIF0210LPG		35, 50, 6				Roush Su	per Duty Truck		1	Super Duty	Truck / LLFA1FPR5; LLFA1FNR5
	150	45, 67.	5	2020		Rousi	n Step Van		7.3	Ş	Step Van / LLF41FSR5
	130	47, 67.5,	93	2020		Blue Bir	d Vision Bus] "."	Vision B	us / LLF61FSR5; LLF61ESR5
	1	41, 64				Rous	h E-Series			- 1	E-Series / LLE41FDR5
LRIIF0360LPG		30, 49 ,50 67.5, 7				Roush Med	dium Duty Truck	· · · · · ·		Mediu	m Duty Truck / LLFC1FDR5
LRIIF0365LPG	1	45, 67.				Roush	Motor Home		1	Motor Home	/ LLF51FDR5 (350 hp for all codes

* =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=litter, K=1000 miles; hp=horsepower, kw=kilowatt;

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;

Following are: 1) the FTP exhaust emission standards or family emission limit(s) as applicable under 13 CCR 1956.1 (urban bus) or 13 CCR 1956.8 (other than urban bus); 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, in g/bhp-hr, 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 1956.1 or 13 CCR 1956.8 are in parentheses.) 4

	NM	IHC	NO	Ox	NMHC	+NOx	C	0	P	M	НС	но
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	*	0.05	*	*	*	14.4	*	0.01	*	0.01	*
CERT	0.05	*	0.02	*	*	*	5.8	*	0.002	*	0.000	*
NTE		*	1			*		*	,	*		*

⁴ g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=supplemental emissions testing Steady-State Cycle; 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: For the listed vehicle models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1976(b)(1)(F) {evaporative emission standards}, 13 CCR 2035 et seq. (emission control warranty), and 13 CCR 2235 [fill pipes and openings of motor vehicle fuel tanks].

BE IT FURTHER RESOLVED: That the listed engine family is certified to the Optional Low NOx Emission Standards as specified in 13 CCR 1956.8(c)(1)(B) and section 10. B. 1. of the incorporated "California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Otto-Cycle Engines and Vehicles" adopted December 27, 2000, as last amended December 19, 2018.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

Elementation on trol system; TWC/OC=three-way/oxidizing catalyst; NAC=nleavy duty of the 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); WR-HO2S=wide range 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 sense;



Pursuant to the authority vested in California 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-19-095;

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	0. E3	INTENDED SERVICE CLASS 2	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6
2020	LRIIE07.3BL1		LPG	PROCEDURE	CERTICE CEAGO	TWC, HO2S, SFI, 2WR-HO2S	OBD(F)
2020	EKILO7.SBE1	7.3		Otto	HDO		000(1)
PRIMARY	ENGINE'S IDLE EMIS	SIONS CON	NTROL 5		ADDITIONA	AL IDLE EMISSIONS CONTROL 5	
	N/A					N/A	
ENGINE (L	.)			ENGINE N	MODELS / CODES (rate	d power, in hp)	
7.3					See Attachment		
L=liter; hp= CNG/LN L/M/H Hi CATALIST DE CATALIST D	horsepower; kw=kilowa G=compressed/liquefied DD=light/medium/heavy ibssion control system; 1 'F=diesel particulate filte wide range oxygen sens rect/direct diesel injectio puff limiter; ECM/PCM= gine shutdown system (p	itt; hr=hour; I natural gas; heavy-duty d IWC/OC=thre ir; PTOX=per or; TBI=thrott n; TC/SC=tui =engine/powe per 13 CCR 19	LPG=liquefie iesel; UB=urb ie-way/oxidizir iodic trap oxid le body fuel in bo/super chai ortrain control 956.8(a)(6)(A)	d petroleum gas; E85=85; ban bus; HDO=heavy duty ng catalyst; NAC=NOx ad: dizer; HO25/O2S=heated/ jection; SFI/MFI=sequent rger; CAC=charge air coo module; EM=engine modi (1); 30g=30 g/hr NOx (pe	% ethanol fuel; MF=multi f / Otto; sorption catalyst; SCR-U / oxygen sensor; HAFS/AF; ial/multi port fuel injection; ler; EGR / EGR-C=exhaus; fication; 2 (preflx)=paralle r 13 CCR 1956.8(a)(6)(C);	n xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulation and the content of the	a; WU (prefix) ≕warm-up oxygen sensor); retor; condary air injection;

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.).

	NM	HC	NO	Эx	NMH	C+NOx	C	0	P	M	HC	НО
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	*	0.05	*	*	*	14.4	*	0.01	*	0.01	*
CERT	0.05	*	0.02	*	*	*	5.8	*	0.002	*	0.000	*
NTE		*	1			*	1	•	,			,

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: 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 Otto Cycle Engines and Vehicles" (HDOE Test Procedures) adopted December 27, 2000, as last amended December 19, 2018 using the 2014 model year National Heavy-Duty Engine and Vehicle Greenhouse Gas Program as specified in Section 1036.108 of the HDOE 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	OF CONFORMITY	PRIMARY INTENDE	D SERVICE CLASS
	LRIIE07.	3BL1-003	Vocat	ional
In	C	02	011	
g/bhp-hr	FTP	SET	CH₄	N₂O
STD	627	*	0.10	0.10
-CL	627	*	*	*
FEL	646	*	0.10	0.10
CERT	545	*	0.03	0.02

d 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 level; CERT=certification level; CO₂=carbon dioxide; CH₄=methane; N₂O=nitrous oxide; VOCATIONAL=vocational engine; TRACTOR=tractor engine



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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: That the listed engine family is certified to the Optional Low NOx Emission Standards as specified in 13 CCR 1956.8(c)(1)(B) and section 10. B. 1. of the incorporated "California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Otto-Cycle Engines and Vehicles" adopted December 27, 2000, as last amended December 19, 2018.

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).

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

Mr. L.

Allen Lydns, Chief

Emissions Certification and Compliance Division

day of March 2020.

A-344-0114 02/13/20

ATTACHMENT 1 OF 1

Engine Family	Engine Family 1.Engine Code 2.Engine Model	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP 6.Torque @ RPM (for diesels only) (SEA Gross)	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 torque	8.Fuel Rate: 9.Emission Control (Ibs/hr)@peak torqueDevice Per SAE J1930
LRIIE07.3BL1	LLE41FSR5	E-Series	350@3300	NA	NA	468@3900	125.4	165.9	TWC/HO2S/SFI/2WR- HO2S
LRIIE07.3BL1	LLE41FDR5	E-Series	SAME	TAN-7/64/7/34/CIPROVINGENCONE PER MENDIONITATION OF STREET, AND HOUSE BEFORE BE	ROSELEK-(SEPPEN) EN JOHN BENERROEINSPERINGERINGER AUGSTRAFFEN ER ER FREIER	SAME	SAME	SAME	SAME
LRIIE07.3BL1	LLFC1FSR5	Medium Duty	SAME	опрогительница выполняющення бого пеней гологовательного выполняющего выполняющего выполняющего выполняющего в	ваденняем на поточення в весенення в подвежения в подвеж	SAME	SAME	SAME	SAME
LRIIE07.3BL1	LLFC1FDR5	Medium Duty	SAME			SAME	SAME	SAME	SAME
LRIIE07.3BL1	LLFA1FPR5	Superduty	SAME		ACCURATIONS COMMANDS IN ANNIAL METAPONICACI (ACCURATION ACCURATIONS OF ACCURATION	SAME	SAME	SAME	SAME
LRIIE07.3BL1	LLFA1FNR5	Superduty	SAME			SAME	SAME	SAME	SAME
LRIIE07.3BL1	LLF41FSR5	Step Van	SAME	n varianteele koloniaan koloniaan ala salaksi kala salaksi kala salaksi koloniaan kala salaksi kala salaksi ka	остранения в серествення в	SAME	SAME	SAME	SAME
LRIIE07.3BL1	LLF51FDR5	Motor Home	SAME		#PROPRIETALES CONTRACTOR CONTRACT	SAME	SAME	SAME	SAME
LRIIE07.3BL1	LLF61FSR5	Blue Bird Vision School Bus	SAME		ACAPTER CONTRACTOR ACAPTER CONTRACTOR CONTRA	SAME	SAME	SAME	SAME
LRIIE07.3BL1	LLF61ESR5	Blue Bird Vision School	SAME			SAME	SAME	SAME	SAME

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

__ day of March 2020.

Allendyons, Chief

Emissions Certification and Compliance Division