

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-14-012;

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.

THE PARTY	7 4 3		73/1/-			ENGINE DE	ESCRIPTION						
MANUFACTURER ROUSH INDUSTRIES, INC.		EXECUTIVE MO YE  A-344-0096 20			NE FAMILY SIZES		FUEL TYPE 1	STANDAR & TEST	SI	ERVICE	ECS & SPECIAL FEATURES 3		
						(L)	_	PROCEDU	JRE C	LASS 2	TWC, HO2S, SFI, 2WR-HO2S		
				19 KRIII	E06.8BW2	6.8	LPG	Otto		HDO			
Gasoline, LPG	or Alco	hol Vehicles (	Only	- Series de	TURNEY SHOW	THE PART SHE	VEHICLE	DESCRIPTIO	N		DATE OF THE PARTY OF THE		
EVAPORATIVE		FUEL TANK		VEHICLE MODEL		VEHICLE MAKE & MODEL &			INE	ENGINE MODELS / CODES			
FAMILY	UL (K		(gallons)			VEHICLE MAKE & MODELS					(rated power, in hp)		
KRIIF0265LPG		67.5, 93	, 47		Blue Bird Vision School Bus					Blue Bird Vision Bus / KKFB18BR5; KKFB18FR5 (320 hp for all codes)			
		45, 67.5 45, 67.5			Roush Step Van					Step Van / KKN410TR5; KKN417TR5; KKN41ATR5; KKN416TR5; KKN4178R5; KKN4168R5 (320 hp for all codes)			
	150			2019	Roush Motor Home 6					Motor Home / KKN510TR5; KKN517TR5; KKN51ATR5; KKN516TR5; KKN5178R5; KKN5168R5 (320 hp for all codes)			
		49, 53, 73 30, 5			Roush F-650/750 Chassis Cab					F-650/750 Chassis Cab / KKNC10KR5; KKNC10RR5; KKNC178R5; KKNC10PR5 (320 hp for all codes)			
		35, 67.5			Roush F-450/550 Chassis Cab				F	F-450/550 Chassis Cab / KKNA10CR5; KKNA17CR5; KKNA178R5 (320 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=liter, K=1000 miles; hp=horsepower; kw=kilowatt;

1 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.)

	NMHC		NOx		NMHC+NOx		CO		PM		нсно	
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	*/	0.02	*	*		14.4	*	0.01	*	0.01	*
CERT	0.04	-	0.01	*	*	*	5.0	*	0.002	*	0.000	*
NTE						*			,*		*	

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;

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 September 1, 2017.

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].

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

<sup>&</sup>lt;sup>3</sup> 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=dieset 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; SFIMFI=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-G=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;



## ROUSH INDUSTRIES, INC.

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

Executed at El Monte, California on this

day of November 2018.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division