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.

						ENG	INE DESC	RIPTION						
MANUFACTURE	REX	EXECUTIVE		EXECUTIVE MODEL E			IGINE FAMILY		ENGINE SIZES (L) FUEL TYPE ¹		A TEST ROCEDURE	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	OBD COMPLIANCE 4
ROUSH INDUSTRIES INC	C. A-	344-0082	2018	JR	IE06.8BWL	6.8	LPG	3 Otto		HDO	TWC, HO2S, 2WR-HO2S, SFI	OBD(F)		
Gasoline, LPG	or Alco Only	hol Vehicle	S					VEH	ICLE DESCR	IPTION				
EVAPORAT	IVE	FUEL TANK		K VEHICLE				ENGINE		ENGINE MODELS / CODES				
FAMILY	UL (K)	(gallons	5)	YEAR	VEHICLE MAKE & MODELS			(L)	(rated power, in hp)					
		67.5, 93, 47	47		Blue Bird Vision School Bus				Blue Bird Vision Bus / JJF618BR5, JJF618FR5 (320 for all codes)					
		45, 67.	5	1	Roush Step Van				Step Van / JJF410TR5, JJF417TR5, JJF41ATR5, JJF416TR5, JJF4178R5, JJF4168R5 (320 for all codes)					
JRIIF0265LPG	150	49, 53, 7 67.5, 30,	'3, 50	2018	Roush F-65	0/750 Cha	issis Cab	6.8	F650/750	Chassis Cab / JJFC1 JJFC10PR5 (32	OKR5, JJFC10RF 20 for all codes)	85, JJFC178R5,		
		35, 67.	5		Roush F-45	0/550 Cha	issis Cab		F-450/550	Chassis Cab/ JJFA1 (320 for a	0CR5, JJFA17CI all codes)	R5, JJFA178R5		
		45, 67.	5		Roust	Motor Ho	ome		Motor Hon	ne / JJF510TR5, JJF5 JJF5178R5, JJF5168	17TR5, JJF51AT R5 (320 for all co	R5, JJF516TR5, des)		

* =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;

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=ightmedium/heav haitura gas, LrS-inclusing periodelin gas, LSD-So sension (a), Michael and (b) and (b) and (c), Michael series.

EMD=engine manufacturer diagnostic system: OBD(F) / (P) / (\$)=full / partial / partial with fine / on-board diagnostic

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		0.05		*		14.4		0.01	+	. 0.01	
CERT	0.05	•	0.01		*	*	5.0	*	0.002	*	0.01	
NTE		•				•		•				*

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European 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: 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 Dec. 27, 2000, as last amended Sep. 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 1971.1 (on-board diagnostic), 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]. (The braces { } are for gasoline, LPG or alcohol fueled vehicles only. The brackets [] are for gasoline or alcohol fueled vehicles only.)

Vehicles 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 March 2018.

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

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 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 FAM	ILY	ENGINE	FUEL TYPE	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 5				
YEAR			SIZES (L)		PROCEDURE	CLASS ²	TAK SEL MAR HORE HORE	OPD/E)				
2018	018 JRIIE06.8BWL		6.8	LPG	Otto	HDO	100C, SFI, 200R-H02S, H02S	OBD(F)				
PRIMARY	ENGINE'S IDLE NS CONTROL 4			ADDITIONAL IDLE EMISSIONS CONTROL								
N/A			N/A									
ENGINE (L) ·			ENGINE MC	DELS / CODES (ra	ted power, in I	hp)					
6.8	8 Please see the attachment.											
* =not appli	cable, GVWR=gross	vehicle v	weight rating; 13 CCR	xyz=Title 13, California Coo	le of Regulations, Sect	ion xyz; 40 CFF	R 86.abc=Title 40, Code of Federal Regulation	s, Section 86.abc;				

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=disel particulate filter, PTOX=periodic trap oxidizer, HO25/O25=heated/oxygen sensor, HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); WR-HO25=wide range oxygen sensor, TBI=throttle body fuel injection, SF/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_esmoke puff limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series;

ESS=engine shutdown system (ger 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); (2012-08-20)

EMD=engine manufacturer diagnostic system ; OBD(F) / (P) / (\$)=full / partial / partial with fine / on-board diagnostic,

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 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 g/bhp-hr	NMHC		NOx		NMHC+NOx		CO		PM		НСНО	
	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	*	0.01	*	*	*	5.0	*	0.002	*	0.01	*
NTE	*				*		*		*		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET= supplemental emissions testing; 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: 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 and last amended September 1, 2017.

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 Dec. 27, 2000, as last amended Oct. 21, 2014 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 CERTIFICATI	OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS				
	JRIIE06.	BWL-001	Vocational				
ln g/bhp-hr	C	O2	CH.	NO			
	FTP	SET	Crit	N ₂ O			
STD	627	*	0.10	0.10			
FCL	627	*		*			
FEL	646	*	*	*			
CERT	612	*	0.03	0.02			

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=Supplemental emissions testing; STD = standard or emit ion test cap; amily en n limit TRACTOR=tractor engine VOCATIONAL=vocational engine; CH4=methane; N2O=nitrous oxide: FCL=family certification level, CERT=certification level, CO2=carbon dioxide,

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BE IT FURTHER RESOLVED: Certification to the FEL(s) / FCL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) / FCL(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 2035 et seq. (emission control warranty) and 13 CCR 1971.1 (on-board diagnostic).

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 March 2018.

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

A Hachment 1/1

A-344-0082 2/20/2018

ROUSH®

LARGE ENGINE MODEL SUMMARY

Manufacturer: Roush Industries, Inc.

EPA Engine Family: JRIIE06.8BWL

Manufacturer Family Name: JRIIE06.8BWL

1 100 1

E.s. Date

2018 MODEL YEAR 6.8L-3V ENGINE

				Fuel Rate	Fuel Rate	
		BHP@RPM	Torque@RPM	mm ³ /stroke @	lbs/hr @	Emission Control
Engine Code	Engine Model	SAE Net	SAE Net	peak torque	peak torque	Device per SAE J1930
JJF410TR5	Step Van	320 @ 3900	415 @ 3072	93.2	97.2	TWC, 2WR-HO2S, HO2S, SFI
JJF417TR5	Step Van	Same	Same	Same	Same	Same
JJF4178R5	Step Van	Same	Same	Same	Same	Same
JJF41ATR5	Step Van	Same	Same	Same	Same	Same
JJF416TR5	Step Van	Same	Same	Same	Same	Same
JJF4168R5	· Step Van	Same	Same	Same	Same	Same
JJF510TR5	Motor Home	Same	Same	Same	Same	Same
JJF517TR5	Motor Home	Same	Same	Same	Same	Same
JJF5178R5	Motor Home	Same	Same	Same	Same	Same
JJF51ATR5	Motor Home	Same	Same	Same	Same	Same
JJF516TR5	Motor Home	Same	Same	Same	Same	Same
JJF5168R5	Motor Home	Same	Same	Same	Same	Same
JJFC10KR5	F-650/750 Chassis Cab	Same	Same	Same	Same	Same
JJFC10RR5	F-650/750 Chassis Cab	Same	Same	Same	Same	Same
JJFC10PR5	F-650/750 Chassis Cab	Same	Same	Same	Same	Same
JJFC178R5	F-650/750 Chassis Cab	Same	Same	Same	Same	Same
JJFA10CR5	F-450/550 Chassis Cab	Same	Same	Same	Same	Same
JJFA17CR5	F-450/550 Chassis Cab	Same	Same	Same	Same	Same
JJFA178R5	F-450/550 Chassis Cab	Same .	Same	Same	Same	Same
JJF618BR5	Blue Bird Vision Bus	Same	Same	Same	Same	Same
JJF618FR5	Blue Bird Vision Bus	Same	Same	Same	Same	Same

Test Group: JRIIE06.8BWL

Issued: October 16, 2017

Revised:

19.03.00.01