California Environmental Protection Agency

VOLKSWAGEN GROUP OF AMERICA, INC.

EXECUTIVE ORDER A-413-0031-1

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 4

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-14-012;

## IT IS ORDERED AND RESOLVED:

The following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

			TEST G	ROUP INFORMATION						
MODEL YEAR	TEST GRO	UP VEHIC	CLE CLASS(ES)	FUEL CATEGORY		FUEL TYPE				
2015	FVGAV02.0	VAL	PC	DEDICATED SINGLE	FUEL	DIESEL				
	USEFUL LIF	E (miles)	VEHICLE EN	ISSION CATEGORY	INTER	IM / INTERMEDIATE IN-USE STD				
EXH/C	DRVR	EVAP	FTP	SFTP	FTI	P SFTP				
150,	.000	*	LEV3 ULEV125	LEV3 COMPOSITE		NMOG+NOx				
SPECIAL	FEATURES &	EXHAUST EMISSION	CONTROL SYSTEMS	OBD STATU	5	ENGINE DISPLACEMENT (L)				
1 00,0	PF+SCRC, S	CRC, WR-HO2S, NO. CAC, DFI	XS, EGR, EGRC, TC,	FULL	•					
*		*		PARTIAL ALL	2.0					
•		*		PARTIAL WITH .						
		E	VAPORATIVE & REFUELI	NG (EVAP/ORVR) FAMILY INF	ORMATION					
	EVAP / OF	RVR FAMILY	EVAPOR	ATIVE STD CATEGORY	EVAP	EMISSION STD VEHICLE CLASS				
		•		*		*				
		*		•		*				
		*		•						
			EMISSION	CREDIT INFORMATION						
	A	LOWANCE FOR TEST	GROUP	NMOG CREDIT FO		OPTIONAL EXH. STD FOR				
BASEL	INE PZEV	PZEV AT PZEV TZEV NON-PZEV ZE		NON-PZEV ZERO-EV		WORK TRUCKS				
	*	*	*	N	N	N N				
			NMOG AND FLE	ET AVERAGE INFORMATION	4					
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO	HO/NMHC RATIO NMOG+NOX FLEET STD LDT (3751 LV STD PC+LDT (0-3750 LVW) (g/mi) 8500 GVWR) + MDPV (g/mi)						
*	*	1.0	•	0.100						

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations.

## **BE IT FURTHER RESOLVED:**

The exhaust and evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's "NMOG or NMOG+NOX, as applicable, Fleet Average" (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

## **BE IT FURTHER RESOLVED:**

For the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

## BE IT FURTHER RESOLVED:

The test group listed in this Executive Order is certified conditionally on the manufacturer providing data to demonstrate compliance with California's greenhouse gas fleet average emission standard (CA GHG Standard) specified in Title 13, California Code of Regulations, (13 CCR) Section 1961.1 and the incorporated California 2001 through 2014 Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2009 through 2016 Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles,

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amended December 6, 2012 (CA Test Procedures). The manufacturer has elected, under 13 CCR Section 1961.1(a)(1)(A)(ii) and under Section E.2.5.1(ii) of the CA Test Procedures, to demonstrate compliance with the CA GHG Standard by demonstrating compliance with the National greenhouse gas program (National GHG Program). Therefore, the test group listed in this Executive Order is certified conditionally further on the manufacturer complying with the requirements specified in said provisions in 13 CCR, and Sections E.2.5.1(ii) and H.4.5(b) and H.4.5(c) of the CA Test Procedures (among other things, concerning data and information submission, timing, and format as specified by the Executive Officer). Failure to comply with the certification requirements to demonstrate compliance with CA GHG Standard by demonstrating compliance with the National GHG Program under said provisions in 13 CCR and CA Test Procedures may be cause for the Executive Officer to revoke the Executive Order. Vehicles in the revoked Executive Order shall be deemed uncertified and subject to penalties authorized under California law. Notwithstanding the requirement herein, a mawnufacturer that becomes, after MY2009, a large-volume manufacturer, as defined in 13 CCR Section 1900, is not required to comply with the CA GHG Standard until the beginning of the fourth model-year form becoming a large-volume manufacturer. Additionally, notwithstanding the requirement herein, a small-volume manufacturer, or intermediate volume-manufacturer, as defined in 13 CCR Section 1900, is not required to comply with CA GHG Standard during model-years (MY) 2012 through 2015.

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations. The Bureau of Automotive Repair will be notified by copy of this Executive Order. This Executive Order hereby supersedes Executive Order A-413-0031 dated July 3, 2014.

Executed at El Monte, California on this

day of July 2014

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

**California Environmental Protection Agency** 

OB Air Resources Board

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						ATT	ACH	MEN	IT :								
()		EXHAUST													st fuel.)		
			EXHAUS	T EMISSIC	ON STAN	DARDS AN	D CERTIFIC	ATION LI	EVELS	(FTP, HV	VFET, 50	°F, 20 °F	)	77			
-	F	UEL TYPE	HCHO= HC/mi]=	formaldehyd	ie; PM=par s; ORVR [g	ticulate matte HC/gallon dis	s; HC=hydroc r; RAF=reacti spensed]=on-l TP=suppleme	vity adjustm	ent factor	; 2DHS/30	DHS [g HC/	est]=2/3 da	ays diurnal+	hot-soak; F	L [g	rees	
			NMOG+NOx (g/mi) CERT STD			(g/mi)			(mg/mi) STD C		PM (g/ml) CERT STD		HWY NMOG		HNOx (g/mi)		
TP @ 5	P@50K *		* *			*	*	*		*		*		* *		T STD	
	TP @ UL DIESEL		0.051 0.12		0.125	0.1	0.1 2.1		4		0.0	0.004		0.017 0		.125	
0°F@50K *				+	• •			• •				*	*		*		
50°F @	4K	*			+	*	. *	•		*			*			*	
				SFTP E	KHAUST	EMISSION	STANDARD	S AND C			LEVELS						
				US06 / UC (LA92)				SC03		· · · ·		COM		MPOSITE			
	FUEL TYP		E NMOG+NOx (g/mi)		CO (g/mi)		g/mi)	(g/mi)		CO (	g/mi)	NMOG+NO:		g/mi)	CO (	g/mi)	
		CERT	STD	CERT	STD	CERT	STD C	ERT	STD	CERT	STD	CERT	STD	BIN	CERT	ST	
UL	DIESEL	-		*	*	*	*	*	*	*		0.034	0.140	0.120	0.1	4.2	
		V	HOLE V	EHICLE E	VAPORA	TIVE/ORVR	EMISSION	STANDA	RDS AN	ND CERT	TIFICATIO	N LEVEL	S			_	
	RATIVE	FUEL TY	PE		YS DIUR	AL + HOT		DAYS DIU	RNAL +			NING LO /mi) @ Ul	SS		RECOVI	ERY	
		-		CERT	SOAK (g/test) @ UL CERT STD FEL		-	SOAK (g/test) (CERT STD		FEL CER		r STD		CERT		STD	
	*	*		*									*	*		*	
		FUEL	ONLY &	CANISTE	R BLEED	EVAPORA	TIVE EMIS	SION STA	NDARD	S AND	CERTIFIC	ATION LI	EVELS			-	
EVAPORATIVE FAMILY						Y EVAPORATIVE TESTING					CANISTER BLEED (g/test)						
		FUEL T	FUEL TYPE		AS DIURN			O DANC I	ALL OT ALLA	1	NACO		CANISIE	R DLLLL	(q/lesl)		
FAR						IAL + HOT t) @ UL	SUAK		(g/test)		SOAK		CANISTE	K DLLLL	(griesi)		
=not ar	*	≠pounds; UL=	useful lif	e: PC=pas	(g/tes ERT *	ar: LDT=lic	D	CERT	(g/test)	@ UL S	TD * WR.0-37	50#LVW	CERT	DT<6000	STD	3751 DV	
=not ar 750#LV 501-10 TD=sta ULEV=u WC/OC CRC/S 0PF=die ir-fuel r GRC=I 0FI/IFI= zone re PG=liq ansmis	* pplicable; # vW; LDT3= 0000#GVW andard; FE ultra LEV; \$ C=3-way/oo SCR-N or \$ SCR-N or	≠pounds; UL= =LDT 6001-85(	useful lif 00#GVW 10001- sion limit; ULEV; Zi ULEV; Zi t; ADST ULEV; Zi t; ADST ULEV; Zi ve); GPF sensor; econdary on; TC/SC on trap; E 5="85%" ; transmi	e; PC=pas R,3751-51 14000#G GVWR=g EV=zero-6 WC=adsor =PM filter PMS=PM v air injecti S= turbo/s GCAN=ble ethanol (	(g/tes ERT * ssenger c '50#ALV/ WR; MD pross veh mission v bing TWV luction-ur bing TWV luctor-ur for spark sensor; i on (belt d uper chan ed carbon 15% (ags 15%)	t) @ UL ST ar; LDT=lig W; LDT4=L PV=mediu icle weight vehicle; PZ C; HAC=HC ea/ammon -ignited eng RDQS=red rriven)/(elec ger; CAC= n canister;   oline) fuel:	pht-duty truc DT 6001-8 m-duty pas rating; LW EV=partial C adsorbing ia; NH3OC jine; HO2S uctant quali ctric driven) charge air prefix 2=pa E10="10%	CERT * * * * * * * * * * * * * * * * * * *	(g/test) LDT <6 VR,575 bhicle; E vehicle; E vehicle; E vehicle; E vehicle; H vehicle; E vehicle; E vehic	@ UL S 0000#GV 1-8500# ECS=em weight; advance- arm-up of tion catal ygen sen =ammon IR; SFU /partial/p series; C asoline)	TD * W/R,0-37 AL/WY; M ission cor AL/W=a d technole catalyst; M hyst; CTO sor; WR- ia sensor MFI=sequ MFI=sequ MFI=sequ MFI=sequ AG/LNG= fuel: A=s	50#LVW DV=med throl systed djusted L AC=NO: X/PTOX= HO2S or ; EGR=e ential/mu fines on ccompres uutomatic	CERT , LDT2=L ium-duty ium-duty ium-duty ium-duty ium-duty ium-duty k adsorpti continuc AFS=wic xhaust ga ultiport fue -board dis ssed/lique transmis	DT <6000 vehicle; N recertifica =low emi transition on cataly pus/perioc te range/ te range/ te range/ to recircu ti njection agnostic; fied natur sion: M=	STD * #GVWR, MDV4=Mi ation; ssion vef al ZEV; st; SCR-I lic trap or inear/hea lation; n; DOR=di ral gas; manual	DV nicle; U or xidize ated	
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enot ap 750#LV 501-10 TD=sta LEV=u WC/OC CRC/S PF=die r-fuel r GRC=I FI/IFI= zone re PG=liq ansmis ansmis	* pplicable; # vW; LDT3: 0000#GVW andard; FE ultra LEV; \$ C=3-way/or SGR-N or \$ esel particu- ratio senso EGR coole educing; Hu uefied petri ssion; SA= ssion; OT= VAKE	=LDT 6001-850 R; MDV5=MD L=family emiss SULEV=super xidizing catalys SCRC-NH3=se ulate filter (activ r; NOXS=NOx r; AIR/AIRE=s ect fuel injectic CT=hydrocarbo roleum gas; E8 semi-automatic	useful lif 00#GVW 10001- sion limit; ULEV; ZI t; ADSTN lective ca re); GPF- sensor; econdary on; TC/SC on trap; E 5="85%" : transmision 2	e; PC=pas R,3751-51 14000#G3 ; GVWR=g EV=zero-6 EV=zero-6 =PM filter PMS=PM var injecti sion; L=le ethanol (* ssion; L=le co15 MC MODEL A3	(g/tes ERT * ssenger c '50#ALV/ WR; ME pross veh mission j bing TW/ luction-ur for spark sensor; i on (belt d uper chai ed carbon 15% gas ock-up at	t) @ UL ST ar; LDT=lic N; LDT4=L PV=mediu icle weight vehicle; PZ C; HAC=HC ea/ammon ignited eng RDQS=red mcanister; poline) fuel; utomatic tra	pht-duty truc DT 6001-8 m-duty pas rating; LVW EV=partial C adsorbing ia; NH3OC gine; HO2S uctant quali ctric driven) charge air prefix 2=pa E10="10% nsmission; VEHICL VEH CLASS PC	CERT * sk; LDT1= 500#GVM senger ve V=loaded ZEV; AT I ; catalyst; =ammonia /02S=hea ty sensor. ; PAIR=pi cooler; F/I rallel; (2) si * ethanol ( CV=conti E MODE ENGIN (L) 2.0	(g/test) LDT <6 /R,5751 hicle; E vehicle; E WU=wa a oxidat ated/oxy; Ilsed Al P/\$=full, suffix=s ("90%"g nuously DELS E TF T Ac	© UL S 0000#GV 1-8500#, ECS=em weight; advance ammon lin; SFI// yartial/partial/partial/ partial/partial/ series; C gasoline) y variable INFOI RANS TYPE A6	TD * WR,0-37 ALVW; M ission cor ALVW=a d technolic atalyst; N tyst; CTO sor; WR- ia sensor MFI=sequ MFI=sequ MFI=sequ RMATI EVAPO FAM	50#LVW DV=med throl syste djusted L ogy PZEV IAC=NO: X/PTOX= HO2S or ; EGR=e ential/mu fines on compres uutomatic ssion; Al ON RATIVE IILY	CERT * : LDT2=L ium-duty err; CERT VW; LEV ; TZEV=: x adsorpti = continuc AFS=wic xhaust ga ultiport fue -board di- ssed/lique transmis M=automa EXH ECS 1	DT<6000 vehicle; M recertifica =low emi transition on cataly us/perioc le range/l is recircu el injection agnostic; fied natu sion; M= ated man OBD Partia	STD * #GVWR, MDV4=Mi ation; ssion vef al ZEV; st; SCR-I ilic trap o; inear/hea lation; n; DOR=di ral gas; manual ual P T	DV nicle; VJ or xidize ated irect YPE	
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