## California Environmental Protection Agency

**⊘** Air Resources Board

VOLKSWAGEN GROUP OF AMERICA, INC. Executive Order: A-413-0052

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

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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 GRO	UP II	NFOR	RMATION						
MOD		TEST G	ROUP		VEHICLE CLASS(ES)				FUEL CATEGORY			FUEL TYPE			
201	.6 (	GVGAV02.0VSE				PC		DEDICATED SINGLE FUEL VEHICLE			GASOLINE				
USEFUL LIFE (miles)					VEHICLE EMISSION CATE				GORY INTERIM / INT			TERME	ERMEDIATE IN-USE STD		
EXH/ORVR EVAP				FTP			SI	TP		FTP			SFTP		
120000 150000			)	LEV	V2 SULEV	SULEV LEV STA			*			*			
SPECIAL FEATURES & EXHAUST EMISSION CO							L		OBD STATUS		JS	ENGINE DISPLACEME (L)			
1	WU-TWC, TWC, WR-HO2S, HO2S(2), DFI, AIR, TC, CAC								FULL	ALL MODELS					
*	*								PARTIAL	- *		2.0			
*	* PARTIAL WITH * FINES														
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION															
EV	AP / OF	ATIVE STD CATEGORY			EVAP EMI			SPI	SPECIAL FEATURES						
	GVGAR0110VAE				LEV 2				PC				*		
						EMISSION CI	REDI	T INF	ORMATION						
									NMOG CREDIT FOR NMOG CREDIT FO				FOR	STD FOR WORK	
BA	BASELINE PZEV AT PZE					' TZEV								TRUCKS	
* *					*			N			и и				
NMOG AND FLEET AVERAGE INFORMATION															
NMO	IMOG BAE I CHA BAE I				IMOG/NMHC RATIO					NOX FLEET STD T (0-3750 LVW) (g/mi)		NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)			
	*	* 1.04 0.030					030		0.093 0.110			0.110			

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.

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## 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+NOx and greenhouse gas 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 for PC, LDT and MDV).

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.

Executed at El Monte, California on this \_\_\_\_\_ day of July 2015.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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							A	TTAC	НМ	ENT							
	EX	HAL	IST	AND E	VAPO	RATIV	E EMIS	SION	STAN	NDARD	SANE	CERTI	FIC	ATION	LEVELS		
		E	XHA	UST EMI	SSION	STAND	ARDS A	ND CER	TIFICA	ATION L	EVELS	(FTP, HW	FET,	50°F, 20	°F)		
		FUEL TYPE		mon- adjus ORV	oxide; Notice ox	NOx: oxi factor; 2 C/gallon	des of nit DHS/3DH dispense	rogen; H HS [g HC ed]: on-bo	CHO: /test]: pard re	formalde 2/3 days	ehyde; P s diurnal- vapor rec	M: particu	late r ; RL [ gram	matter; R g HC/mi] ; mg: mil	IC; CO: ca AF: reactiv : running lo ligram; mi: al FTP	rity oss;	
					NMOG (g/mi)		CO (g/mi)				Ox mi)	HCHO (mg/mi)		-			
				CE	CERT		CERT			CERT STD		CERT		STD	CERT	STD	
FTP@5	oK	k *			*	*	. *	*		*	*	*		*	*	*	
FTP@L	(	GASOL TIE UNLE	R 2	0.0	039	0.010	0.17	1.	0	0.008	0.02	0.0	4		0.004	0.01	
50°F @	0°F @4K TI		DLINE - CER 2 0. LEADED		068	0.020	0.18	1.	0	0.006	0.02	0.0		8			
		#151,B*****			FUEL TYPE						NOx (g				CO (g/mi)		
					10221112						CERT		STD		7	STD	
HWFE	HWFET @ 50K				*					*		*					
HWFET @ UL			GASO:	GASOLINE - TIER 2 UNLEADED					0.003		0.03	0.03					
20°F @ 50K				GASOL	GASOLINE-COLD CO HIGH OCTANE					1.00 (1.00 1.00 (1.00)				1.98		10.0	
				SFT	PEXHA	USTE	MISSION	STAND	ARDS	AND C	ERTIFIC	ATION L	EVEL	S			
							US06	S06			SC03				OMPOSITE		
	FUE	JEL TYPE			NMHC+NOx (g/mi)		CO (g/mi)	(g/mi) (mg/mi)		NMHC+NOx (g/mi)		CO (g/mi)	NMHC+NO (g/mi)		CO (g/mi)	PM (mg/mi	
				CERT	T 0.032		1.48	1.48		0.033		0.19					
@ 4K	- TIER		ED STD			0.14		8.0		0.20		2.7					
		* S		CERT	*		*		*		*	*	-	*	*	*	
@ UL				BIN	*	-,5,4	Ruhalika							*		1970 2 25	
			WHO		ICLEF	VAPOR	ATIVE E	MISSION	ISTA	NDARD	SANDO	ERTIFIC	ATIO		S	13.2.33	
			*****	ALL ALU	OLL E		VHOLE V										
	EVAPORATIVE FAMILY		-11-1					/test) @ UL		2DHS (g/test)				RL (g/mi)		@ UL	
						RT STD		FEL	CE	RT	STD	FEL		CER	T	STD	
GVGAR0110VAE			GASOLINE-CA PHASE 2					*		0.345 0.65		*			0.00 0.05		
(	RVF	R / FU	EL O	NLY / CA	NISTE	R BLEE	DEVAP	ORATIVI							TION LEVE	ELS	
	EVAPORATIVE FAMILY		E ORVR (g/ga			@ UL		31			TEST	2DHS	2 & CANISTER BL 2DHS RIG TES (g/test) @ UL				
FA					PE CERT STD		_	FUEL TYPE		(g/test) @ UL ERT STD		CERT	1	STD	CERT	STD	
GVGA	GVGAR0110VA		GAS	OLINE -	0.01			*		*	*	*	*		. *	*	

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not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: LDT<6000#GVWR,3751-5750#LVW; LDT3: LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4: LDT 6001-8500#GVWR,5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: mediumduty passenger vehicle; ECS; emission control system; CERT; certification; STD; standard; FEL; family emission limit; GVWR; gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; PZEV: partial ZEV; AT PZEV: advanced technology PZEV; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst: SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia; NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for sparkignited engine; HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOX sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirculation; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; F/P/\$: full/partial/partial with fines on-board diagnostic: DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%"gasoline) fuel; E10: "10%' ethanol ("90%"gasoline) fuel; A: automatic (with lockup); M: manual transmission; SA: semi-automatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission

2016 MODEL YEAR: VEHICLE MODELS INFORMATION												
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE				
VOLKSWAGEN	EOS	PC	2.0	AM6	GVGAR0110VAE	1	F	*				
VOLKSWAGEN	EOS	PC	2.0	М6	GVGAR0110VAE	1	F	*				