## California Environmental Protection Agency

## **⊘** Air Resources Board

GENERAL MOTORS LLC. Executive Order: A-006-2000

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 GROU	JP INFO	RMATION						
MODEL YEAR	TEST GOOD VEHICLE CLASSIES					FUEL C	ATEGORY	FU	JEL TYPE			
2016	GGMXD 0	6.635	5	MDV4			SINGLE FUEL	DIESEL				
US	EFUL LIFE	(miles	s) V	EHICLE EMISSI	ON CAT	EGORY	INTERIM / INT	ERMEDIA	RMEDIATE IN-USE STD			
EXH/O	RVR	EV	AP	FTP	S	SFTP	FTP	TP SFTP				
1200	00	*	L	EV2 ULEV		*	*	*				
SPECIA	AL FEATU		EXHAUST EMIS	SION CONTROL	-	OBD \$1	TATUS	ENGINE	DISPLACEMENT (L)			
1 0	C, DPF,	SCRC,	DFI, EGR, EG NOXS(2)	RC, TC, CAC,	A	FULL	*	6.6				
*			*			PARTIAL	ALL MODELS					
*			*		PA	ARTIAL WITH	*					
	*****		EVAPORATIVE	& REFUELING	(EVAP/C	ORVR) FAMILY	INFORMATION					
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							SSION STD E CLASS	SPECIAL FEATURES				
*				*		1		*				
				EMISSION CR	EDIT IN	FORMATION						
	ALLOV	VANCE	E FOR TEST GRO	DUP		OG CREDIT FO	EDIT FOR	OPTIONAL EXH STD FOR WOR				
BASELI	NE PZEV		AT PZEV	TZEV	NON-I	PZEV ZERO-E	VAP DO	PR	TRUCKS			
	*		*	*		N	N		N			
			NM	OG AND FLEET	AVERA	GE INFORMAT	TION					
NMOG R	IOG RAF CH4 RAF		FTP NMOG/NMH RATIO	HCHO/NMI	HCHO/NMHC RATIO		OX FLEET STD (0-3750 LVW) (g/mi)	LDT (3	+NOX FLEET STD (3751 LVW-8500 R) + MDPV (g/mi)			
*	*		*	*		*		*				

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 and 2017 and Subsequent Model Greenhouse Gas 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

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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## **ATTACHMENT**

EXHAUST AND EVAPORATIVE EMISSION STANDA	ARDS AND CERTIFICATION LEVELS

	EXHAL	JST AI	ND E	VAPOF	RATIVE	EMIS	SION S	MAT	IDAR	DS AND	CERTI	FIC	ATION	LEVELS	,	
	E	XHAUS									(FTP, HWF					
	FUEL TYPE		mon- adjus	oxide; No stment fa R [a HC	Ox: oxid actor; 2D /gallon o	es of nito HS/3DH dispense	rogen; H0 HS [g HC/ ed]: on-bo	CHO: test]: ard re	formalo 2/3 day fueling	dehyde; P vs diurnal vapor re	bon; NMH( M: particul +hot-soak; covery; g: ç ure; SFTP:	ate r RL [ gram	natter; R. g HC/mi] ; mg: mili	AF: reactive : running I ligram; mi:	vity oss;	
				NMHC (g/mi)		CO (g/mi)			NOx (g/mi)			HCHO (mg/mi)				
			CE	RT	STD	CERT		)	CERT	STD	CERT	T	STD	CERT	STD	
TP@50K	P@50K *		*		*	*	*		*	*	*		*	*	*	
FTP@UL		L-EPA	0.0	786	0.143	0.71	6.4		0.16	0.2	1.8	1	16	0.003	0.06	
50°F @4K		*		*	*	*	*		*	. *	*		*		SEC	
				FUEL TYPE				NOx (g/mi)				CO (g/mi)				
								CERT S		STD	CE		RT STD			
HWFET @ 50K				*					* *		*				1909	
HWFET @ UL				DIESEL-EPA					0	0.14 0.4		Chill Wall			100 100 100 100 100 100 100 100 100 100	
20°F @		*						American School Services			*		*			
			SFTI	PEXHA	UST EM	ISSION	STANDA	RDS	AND C	ERTIFIC	ATION LE	VEL				
				US06					SC03				COMPOSITE			
F	FUEL TY		1	NMHC+I (g/mi		CO (g/mi)		PM (mg/mi)		C+NOx /mi)			HC+NOx g/mi)	(g/mi)	PM (mg/mi	
@ 4V	*	CE	RT	*		*				*	*					
@ 4K		ST		*		*				*	*					
		* S1		*		*	*		* *			*	*	*		
@ UL	*			*		*	*			*	*		*	*	*	
			IN			4.050		ACOS S.					*			
		WHOL	E VEH	ICLE EV						- Waterson	ERTIFICA	TIO	N LEVEL	.s		
			WHOLE VEHICLE EVAP					ORATIVE TESTING				Pl (a/mi) @ III				
EVAPORATIVE FAMILY		FUEL TYPE		E :	3DHS (g/test) @ UL			2DHS (g/test)		@ UL		RL (g/mi) @ UL				
				CE	RT S	TD FEL		CE	RT	STD	FEL		CERT		STD	
*			* *		*	* *		* *		*		*	* *			
OF	RVR / FU	EL ONL	YICA	NISTER	BLEED	EVAPO	ORATIVE	-			RDS AND				ELS	
								UEL ONLY EVAP & CAI			IISTER BLEED					
EVAPORATIVE FAMILY		OR	VR (g/	gallon) (	@ UL	FUEL	FUEL TYPE		3DHS RIG TEST (g/test) @ UL		2DHS RIG (g/test) @				ANISTER est) @ 4K	
		FUEL	TYPE	YPE CERT STD					RT	STD	CERT		STD	CERT	STD	

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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: .DT<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%"qasoline) 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				
CHEVROLET	C2500 SILVERADO	MDV4	6.6	A6	*	1	P	*				
CHEVROLET	K2500 SILVERADO	MDV4	6.6	A6	*	1	P	*				
GMC	C2500 SIERRA	MDV4	6.6	A6	*	1	P	*				
GMC	K2500 SIERRA	MDV4	6.6	A6	*	1	P	*				