California Environmental Protection Agency Air Resources Board

GENERAL MOTORS LLC. Executive Order: A-006-2002

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 INFOR	RMATION				
MODEL	TEST GROUP			VEHIC	CLE CLASS(ES)	FUEL C	ATEGORY	FUEL TYPE		
2016					MDV5			SINGLE FUEL			
US	SEFUL	LIFE (m	iles)	VE	HICLE EMISSIO	ON CATE	GORY	INTERIM / INT	ERMEDIA	TE IN-USE STD	
EXH/O	EXH/ORVR EVAP				FTP	SI	FTP	FTP		SFTP	
1200	120000 *			LE	V2 ULEV	*		*	*		
SPECI	AL FE	ATURES		HAUST EMISS	ION CONTROL		OBD ST	TATUS	ENGINE	DISPLACEMENT (L)	
1	OC, D	PF, SCR		FI, EGR, EGF (S(2), PMS	RC, TC, CAC,		FULL	ALL MODELS			
*				*			PARTIAL *		6.6		
*				*		PA	RTIAL WITH FINES	*			
			E	VAPORATIVE 8	REFUELING (EVAP/O	RVR) FAMILY	INFORMATION			
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR						ORY	EVAP EMIS VEHICLE		SPECIAL FEATURES		
	*				*				*		
					EMISSION CR	EDIT INF	ORMATION				
	AI	LLOWAN	ICE F	OR TEST GRO	UP		G CREDIT FO			OPTIONAL EXH STD FOR WORK	
BASELINE PZEV AT PZEV				PZEV	/ TZEV		ZEV ZERO-E	VAP DO	R	TRUCKS	
* *				*	*		N	N	1	N	
				NMO	G AND FLEET	AVERAG	SE INFORMAT	TION			
NMOG R	MOG RAF CH4 RAF		FTI	P NMOG/NMHO RATIO	HCHO/NMH	HCHO/NMHC RATIO		OX FLEET STD (0-3750 LVW) (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 31 day of July 2015.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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RL (g/mi) @ UL

STD

BLEED CANISTER

TEST (g/test) @ 4K

STD

CERT

CERT

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EVAPORATIVE

FAMILY

EVAPORATIVE FAMILY

FUEL TYPE

3DHS (g/test) @ UL

STD

FEL

FUEL TYPE

CERT

STD

ORVR (g/gallon) @ UL

FUEL TYPE CERT

ATTACHMENT

		EXHAL	JST E	MISSIO	NSTAND	ARDS AN	D CERTIFI	CATION L	EVELS	(FTP, HW	/FET, 50°F, 20	°F)	
	FUE	FUEL TYPE		onoxide; ljustmen RVR [g l	NOx: oxi t factor; 2 HC/gallon	des of nitro DHS/3DHS dispensed	gen; HCH(5 [g HC/tes]: on-board	D: formalde t]: 2/3 days refueling v	ehyde; P diurnal apor re	M: particu +hot-soak covery; g:	IC: non-CH4 H ulate matter; R/ ;; RL [g HC/mi]: gram; mg: mill P: supplementa	AF: reactive running le igram; mi:	ity oss;
				NMHC (g/mi)		CO (g/mi)			NOx (g/mi)		HCHO (mg/mi)	PM (g/mi)	
			-	CERT	STD	CERT	STD	CERT	STD	CER	T STD	CERT	STD
FTP@5	OK	*		*	*	*	*	*	*	*	*	*	*
FTP@L	L DIES	EL-EP	A 0	.0537	0.167	0.50	7.3	0.25	0.4	4.5	21	0.001	0.06
50°F @	4K	*		*	*	*	*	*	*	*	*		
					FUEL TY	DE			NOx (g/mi)			
The state of the s				TOLETTIL					CERT S		CERT	STD	
HWFE	ET @ 50K			*					* *				
HWFE	T@UL			I	IESEL-	EPA		0.	50	0.8	第一次第一个字子的。 第一次第一个字子的		
20°F	@ 50K				*						*	* *	
			SF	TP EXH	AUST E	MISSION S	TANDARD	S AND C	RTIFIC	ATION L	EVELS		
						US06			SC03		COI	MPOSITE	
	FUEL T	YPE		NMHC (g/s	+NOx mi)	CO (g/mi)	PM (mg/mi)	NMHC (g/i		CO (g/mi)	NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi
@ 4K	*	C	ERT	* *			,	*		建筑 的秘密。			
@ 4h			STD	1		*				*			
		C	ERT	1	r	*	*	,		*	*	*	*
@ UL	*		STD	1		*	*	4	* *		*	*	*
			BIN	MARK TO			建筑				*	TRUSHONS !	

2DHS (g/test) @ UL

FEL

2DHS RIG TEST

(g/test) @ UL

STD

FUEL ONLY EVAP & CANISTER BLEED

CERT

STD

*

STD

3DHS RIG TEST

(g/test) @ UL

CERT

CERT

ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

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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			
CHEVROLET	C3500 SILVERADO	MDV5	6.6	A 6	*	1	F	*			
CHEVROLET	C3500 SILVERADO CAB CHASSIS	MDV5	6.6	A 6	*	1	F	*			
CHEVROLET	K3500 SILVERADO	MDV5	6.6	A6	*	1	F	*			
CHEVROLET	K3500 SILVERADO CAB CHASSIS	MDV5	6.6	A 6	*	1	F	*			
GMC	C3500 SIERRA	MDV5	6.6	A6	*	1	F	*			
GMC	C3500 SIERRA CAB CHASSIS	MDV5	6.6	A6	*	1	F	*			
GMC	K3500 SIERRA	MDV5	6.6	A6	*	1	F	*			
GMC	K3500 SIERRA CAB CHASSIS	MDV5	6.6	A6	*	1	F	*			