California Environmental Protection Agency Air Resources Board

GENERAL MOTORS LLC. Executive Order: A-006-1975-1

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	P INFOR	MATION						
MODEL YEAR		TEST G	ROUP	VE	HICLI	E CLASS(ES)		FUEL C	ATE	GORY	FUEL TYPE			
2016	2016 GGMXJ03.6165 LDT2, PC				`	DEDICATED SINGLE FUEL VEHICLE			GASOLINE					
US	SEFL	JL LIFE	(miles)		VEHI	CLE EMISSIC	N CATE	GORY	IN	TERIM / INT	ERMEDIA	TE IN-USE STD		
EXH/C	RVF	2	EVA	P	F	TP	SF	TP		FTP	SFTP			
1200	.20000 1		15000	2.5	USEPA TIER2 BIN4 COUNTED AS ARB LEV2 ULEV					LEV 2 SFTP *		*	*	
SPECI	AL I	FEATUR		XHAUST EM	ISSIOI	N CONTROL		OBD S	TATL	ıs	ENGINE	DISPLACEMENT (L)		
1		2	TWC (2)	, 2HO2S(2)	, DF	I		FULL		*				
2		21	WC, IV	VC, 2HO2S (2) , D	FI		PARTIAL	ALI	L MODELS		3.6		
3			2TWC,	2HO2S(2),	DFI		PAF	RTIAL WITH FINES	*					
				EVAPORATIV	E&R	EFUELING (EVAP/OF	RVR) FAMILY	INF	ORMATION				
EVAP	/ OR	VR FAM	VILY	EVAPORA	TIVE	STD CATEGO	DRY	EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES			
GGI	MXR	11283	5		LE	V 2		PC				HCT		
GGI	MXR(0120818	В		LE	V 2		PC			*			
GG	MXR	0130301	В	LE	v 3	PTION2 PC				*				
GGI	MXR(013381	0		LE	V 2 P			PC			*		
GGI	MXR	013881	3		LE	V 2		LDT2			*			
GG	MXR	017095	6	, , , , , , , , , , , , , , , , , , , ,	LE	V 2		LD	T2			*		
		**			EI	MISSION CRE	DIT INF	ORMATION						
		ALLOW	ANCE	FOR TEST G	ROUP		NMO	G CREDIT FO	OR	NMOG CRI	EDIT FOR	OPTIONAL EXH		
BASEL	INE	PZEV	A	T PZEV		TZEV	_	-PZEV ZERO-EVAP				STD FOR WOR		
	*			*		*		N		N		N		
				N	MOG	AND FLEET	VERAG	E INFORMA	TION					
NMOG R	AF	CH4 RA	AF F	TP NMOG/NN RATIO	IHC	HCHO/NMH	C RATIO	PC+LDT	OT (0-3750 LVW)		LDT (3	G+NOX FLEET STD F (3751 LVW-8500 VR) + MDPV (g/mi)		
*		*		1.04		*			0.093		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).

day of October 2015.

BE IT FURTHER RESOLVED:

The listed vehicle models are federally certified, and are certified under the provisions of 13 CCR Section 1961.2(a)(12) and the incorporated test procedures.

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

This Executive Order hereby supersedes Executive Order A-006-1975 dated April 9, 2015.

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 STANDARDS AND CERTIFICATION LEVELS

EVILLIAN CENTROLON OF AND ADDO	AND OFFICIOATION I FU	TI O /ETO	LUATEET FACE AGOE
EXHAUST EMISSION STANDARDS		EI STELP	HVVEE SU'E 20'E)
EXIZOGI EMMODICITOTATIONICO	AND OFICE IN ION LOST FEAT	/I /I	, I I V V I L I , OU I , ZU I /

CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP

FUEL TYPE

A MARIE WASHINGTON OF THE STREET												
		NMOG (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)		
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
FTP@50K	*	*	*	*	*	*	*	*	*	*	*	
FTP@UL	GASOLINE - TIER 2 UNLEADED	0.027	0.070	1.1	2.1	0.01	0.04	*	11	*	0.01	
50°F @4K	*	*	*	*	*	*	*	*	*		142.50	

	ELIEL TYPE	NOx	(g/mi)	CO	g/mi)
The few of the State	FUEL TYPE	CERT	STD	CERT	STD
HWFET @ 50K	*	*	*		
HWFET @ UL	GASOLINE - TIER 2 UNLEADED	0.01	0.05	Carlotte Carlotte	Francis - 1 a
20°F @ 50K	GASOLINE-COLD CO LOW OCTANE		The State Control of the	4.2	10.0

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC0	3	COMPOSITE		
FUEL TYP	FUEL TYPE	A Park Control	NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMHC+NOx (g/mi)	CO (g/mi)	NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
	GASOLINE	CERT	0.06	1.9		0.03	1.0			
@ 4K	- TIER 2 UNLEADED	STD	0.14	8.0	ar de	0.20	2.7			
		CERT	*	*	*	*	*	*	*	*
@ UL *	*	STD	*	*	*	*	*	*	*	*
		BIN		W. Think	15000000		A. A. Salar	*		

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1	WHOLE VEHICL	E EVAP	ORATIVE E	MISSION	STANDAR	DS AND CE	RTIFICATIO	N LEVELS	
			WHOLE \						
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test) @	D UL	2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
GGMXR0112835	GASOLINE - TIER 2 UNLEADED	0.34	0.50	*	0.58	0.65	*	0.00	0.05
GGMXR0120818	GASOLINE - TIER 2 UNLEADED	0.34	0.50	*	0.58	0.65	*	0.00	0.05
GGMXR013030B	GASOLINE- LEV3 E10	0.242	0.300	*	0.234	0.300	*	0.00	0.05
GGMXR0133810	E10-EPA	0.25	*	*	0.30	*	*	0.00	*
GGMXR0133810	GASOLINE - TIER 2 UNLEADED	0.20	0.50	*	0.29	0.65	*	0.00	0.05
GGMXR0138813	E10-EPA	0.26	*	*	0.35	*	*	0.00	*
GGMXR0138813	GASOLINE - TIER 2 UNLEADED	0.23	0.65	*	0.36	0.85	*	0.00	0.05
GGMXR0170956	E10-EPA	0.38	0.65	*	0.26	0.85	*	0.00	0.05

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

	ORVR (g/gallon) @ UL			FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY				FUEL TYPE		IG TEST) @ UL		IG TEST) @ UL	BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
GGMXR013030B	GASOLINE - TIER 2 UNLEADED	0.01	0.20	GASOLINE- LEV3 E10	*	*	*	*	0.008	0.020		
GGMXR0133810	GASOLINE - TIER 2 UNLEADED	0.01	0.20	*	*	*	*	*	*	*		
GGMXR0138813	GASOLINE - TIER 2 UNLEADED	0.06	0.20	*	*	*	*	*	*	*		
GGMXR0112835	GASOLINE - TIER 2 UNLEADED	0.02	0.20	*	*	*	*	*	*	*		
GGMXR0120818	GASOLINE - TIER 2 UNLEADED	0.02	0.20	*	*	*	*	*	*	*		
GGMXR0170956	GASOLINE - TIER 2 UNLEADED	0.04	0.20	*	*	*	*	*	*	*		

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t: 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; HDV: heavy-duty 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 spark-ignited 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

		r		· · · · · · · · · · · · · · · · · · ·				
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
CADILLAC	ATS	PC	3.6	SA8	GGMXR0120818	1	P	*
CADILLAC	ATS AWD	PC	3.6	SA8	GGMXR0120818	1	P	*
CADILLAC	CT6 AWD	PC	3.6	SA8	GGMXR0112835	3	P	*
CADILLAC	CTS SEDAN	PC	3.6	SA8	GGMXR0133810	1	P	*
CADILLAC	CTS SEDAN AWD	PC	3.6	SA8	GGMXR0133810	1	P	*
CADILLAC	SRX 2WD	LDT2	3.6	SA6	GGMXR0170956	1	P	*
CADILLAC	SRX AWD	LDT2	3.6	SA6	GGMXR0170956	1	P	*
CADILLAC	XTS	PC	3.6	SA6	GGMXR0133810	2	P	*
CADILLAC	XTS AWD	PC	3.6	SA6	GGMXR0133810	2	P	*
CHEVROLET	CAMARO	PC	3.6	М6	GGMXR013030B	1	P	*
CHEVROLET	CAMARO	PC	3.6	SA8	GGMXR013030B	1	P	*
CHEVROLET	CAMARO	PC	3.6	М6	GGMXR0133810	1	P	*
CHEVROLET	CAMARO	PC	3.6	SA8	GGMXR0133810	1	P	*
CHEVROLET	EQUINOX AWD	LDT2	3.6	A6	GGMXR0138813	2	P	*
CHEVROLET	EQUINOX FWD	LDT2	3.6	A6	GGMXR0138813	2	P	*
GMC	TERRAIN AWD	LDT2	3.6	A6	GGMXR0138813	2	P	*
GMC	TERRAIN FWD	LDT2	3.6	A6	GGMXR0138813	2	P	*