

Pursuant to the authority vested in California 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-19-095;

IT IS ORDERED AND RESOLVED: That 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 GRC		FOR	MATION			v		
MOD YEA	TEST GDAID			VEHICLE CLASS(ES)				FUEL CATEGORY			FUEL TYPE		
202	0 L	GMXV02.0041		PC				SINGLE FUEL HICLE		GASOLINE			
	USEFU	IL LIFE (miles)	and the second	VEH	ICLE EMISS	ION C	ATE	GORY	TERN	ERMEDIATE IN-USE STD			
EX	H/ORVF	R EVAF	>		FTP			FTP FTP			SFTP		
1	50000	15000	0	LEV3	ULEV50 LEV 3 COM			MPOSITE	PM		РМ		
SP	ECIAL F	EATURES & E	XHAU STE		ON CONTRO	L		OBD STATUS			ENGINE DISPLACEMENT (L)		
1		CAC, TC, DFI	R-HO2S, TWO	C, HO2S	25		FULL	*					
*			*			P	ARTIAL	ALL MODELS	2.0				
*			*		and the second se		TIAL WITH	* *	]				
		I	VAP	ORATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	(INFORMATION	1			
EV	AP / OR	VR FAMILY	APORATIVE	STD CATE	GORY	·	EVAP EMISSION STD VEHICLE CLASS SPECIAL FEATURE						
	LGMXRO	1103AA		LEV 3 OPTI	ON2 WITH	FEL		E	2C		HCT		
				E	MISSION C	REDIT		ORMATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY										OPTIONAL EXH. STD FOR WORK TRUCKS		
		N		N				N					
NMOG AND FLEET AVERAGE INFORMATION													
NMOO RAF	NMOG/NMHC PC+LDL (0-3/5					0-375		W) LDT (3751 LVW-8500 MDV (10,001-			MOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10		*	0	.065			0.074		*		

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. (As applicable, heavy-duty vehicles (HDV) over 14,000 pounds in GVWR listed in this Executive Order are certified to the requirements in 13 CCR Section 1961.2 applicable to MDV pursuant to 13 CCR Section 1956.8(c)(3) or 13 CCR Section 1956.8(h)(5), as applicable.)



GENERAL MOTORS LLC.

## 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 fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c) (3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV 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  $\int \mathcal{ST}$  day of October 2019.

Aller Lyons, Chief Emissions Certification and Compliance Division

CALIFORNIA AIR RESOURCES BOARD							C	GENERAL MOTORS LLC.				Executive Order: A-006-2231 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4						
							A	TTAC	HME	ENT		-						
	EXHA	UST		EVA	POR	ATIVI	EEMI	SSION	STAN	DAR		) CERTI	FIC/	ATION	LEVE	S		
									and the second state		LEVELS							
FUEL TYPE				CH4: methane; NMOG: non-CH4 organic monoxide; NOx: oxides of nitrogen; HCH0 adjustment factor; 2DHS/3DHS [g HC/tesi ORVR [g HC/gallon dispensed]: on-board 1000 miles; F: degrees Fahrenheit; FTP: 1						formal 2/3 da fueling	dehyde; P ys diurnal- g vapor rec	M: particu hot-soak; overy; g:	late r RL [ gram	natter; F g HC/m ; mg: m	RAF: read i]: running illigram; r	tivity loss;		
				NMOG+NOx				СО	2		NOx		нсно	<b>)</b>	PM			
				(g/mi)			(g/mi)		(	g/mi)	(1	ng/n	ni)	(	(g/mi)			
				CERT		STD	CER	T ST	D	CERT	STD	D CERT		STD	CERT	STD		
FTP@50	ок	*		*		*	*	*		*	*	*		* *		*		
FTP@U		OLIN R3 E		0.029	0	.050	0.3	1.	7	. *	*	*			0.002	0.003		
50°F @4	4K	*		*		*	*	*		*	*	* *		*				
和他有道				FUEL TYPE							NMOG+NOx (g/mi)			CO (g/mi				
1. 1990 8											CERT STD			CERT		STD		
HWFET	Г@ 50К			*							* *							
HWFE	T @ UL			GAS	OLIN	E-TIE	R3 E10	E10 0.0			.027	027 0.050			an a			
20°F (	@ 50K	СС	DLD CO	E10	REGU	LAR G	ASOLIN	E (TIEF	R3)					1.	7	10.0		
			S	FTP E	XHAU	JST EM	ISSION	STAND	ARDS	AND	CERTIFIC	ATION LE	VEL	S				
								JS06				SC03			COMPOS			
	FUEL TYPE		TYPE		NMOG+NOx (g/mi)		CO (g/mi)		PM g/mi)		)G+NOx g/mi)	CO (g/mi)	NMOG+NC (g/mi)		x CO (g/m			
@ 4K	к *		* CERT		*		*				*	*						
		ST			*		*				*	*						
	GASOLINE-		CERT	·	*		*		1		*	*	C	.035	1.7	*		
@ UL			STD *		*	*		* 6			*	*	• 0.0		4.2	*		
		BI							90-1 1	0.070								
		WH	IOLE V	EHICL	E EV	APORA	TIVE E	MISSION	STAN	IDAR	DS AND C	ERTIFIC	ATIO	N LEVE	LS			
						W	HOLE \	/EHICLE	EVAP	ORAT	IVE TEST	ING		_		<u></u>		
EVAPORATIVE FAMILY						TYPE 3DHS (g/tes			/test) @	est) @ UL		2DHS (g/test) @ U		@ UL			RL (g/mi) @ UL	
				CERT		RT S	STD FEL		CEI	RT	STD	FEL		CERT		STD		
LGMXR01103AA		A   -		OLINE- R3 E10 0.211 0.			. 300	300 0.300 0.2		51	1 0.300		0.300 0.		00	0.05		
C	DRVR / F	UEL (	ONLY /	CANIS	STER	BLEED	EVAP	ORATIV	E EMIS	SION	STANDA	RDS AND	CEF	RTIFICA	TION LE	VELS		
											NLY EVA	·····						
EVAPORATIVE		/E ORVR (g/gallon) @ UL									GTEST					D CANISTER (g/test) @ 4K		
E ^										1/1067								
FA			IEL TY	PEC	ERT	STD	FUE 	LIYPE		RT	@ UL STD	CERT		STD	CERT	STD		

CALI AIR RESC	FORNIA DURCES BOARD	GE	NERAL MOTORS LLC.	Executive Order: A-006-2231 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4								
EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)												
EVAPORATIVE FAMILY	LEAK FAMILY		CER		STD							
LGMXR01103AA	LGMXR01103AA-L	K1	*		0.02							
LGMXR01103AALGMXR01103AA-LK1*0.02*: 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 8501-1000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: medium- duty 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; 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; HP/LP EGR: High/Low Pressure EGR; 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; FFH: fuel fired heater; F/P/S: full/partial with fines on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); CNG/LNG: compre												

## 2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
CADILLAC	CT4	PC	2.0	SA8	LGMXR01103AA	1	P
CADILLAC	CT4 AWD	PC	2.0	SA8	LGMXR01103AA	1	P
CADILLAC	CT5	PC	2.0	SA10	LGMXR01103AA	1	P
CADILLAC	CT5 AWD	PC	2.0	SA10	LGMXR01103AA	1	P