

GENERAL MOTORS LLC.

Executive Order: A-006-2215

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 1 of 4

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-14-012;

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 GR	OUP IN	FORM	MATION				
MODE	I LCI GDAID		VEHICLE CLASS(ES)			(lang	FUEL CATEGORY			FUEL TYPE		
2020) LG	MXT02.	5201		LDT3	endry)			SINGLE FUEL HICLE	GASOLINE		
) ; / {	USEFUL	LIFE (n	niles)	VEH	IICLE EMISS	SION C	ATEG	ORY	INTERIM / INT	ERME	DIATE IN-USE STD	
EXI	EXH/ORVR EVAP				FTP and S		SF	SFTP FTP		19 08	les os SETP	
1	50000	Pri late;	150000	LEV3	ULEV70	LEV	3 CO	MPOSITE	NMOG+NOX ANI	ND PM PM		
SPE	ECIAL FE	ATURE	S & EXH SYS1	IAUST EMISSIC	ON CONTRO	DL Personal	11.0	OBD S	TATUS	ENG	GINE DISPLACEMENT	
1	Æ	DFI, TWC, HO2S(2)						FULL			ondinilik operaci	
*			-	*		The St. St.	P	ARTIAL	ALL MODELS		2.5	
*	. *							TIAL WITH	*			
			EV	APORATIVE &	REFUELING	G (EVAI	P/OR	VR) FAMILY	INFORMATION			
EVA	AP / ORV	'R FAMII	LY	EVAPORATIVE	STD CATE	GORY	T		SSION STD E CLASS	SPI	ECIAL FEATURES	
	LGMXR01	L4640A		LEV 3 OPTI	ON2 WITH	FEL	L LDT3			HCT		
				[EMISSION C	REDIT	INFO	RMATION				
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON-F									OPTIONAL EXH. STD FOR WORK TRUCKS		
	N N						N N			N		
				NMOG	AND FLEE	T AVE	RAGE	INFORMA	TION	•		
NMOG RAF	CH4 RAF	PAE NMOG/NMHC HCHO/NMHC PC+LDT (0-3750 LVW) LDT (3751 LVV		+NOX FLEET ST (3751 LVW-8500 R) + MDPV (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. Executive Order: A-006-2215

New Passenger Cars, Light-Duty Trucks and

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Page 2 of 4

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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 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).

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

The Bureau of Automor	tive Repair will be	notified by copy of this Execu	tive Order.	经过度的特殊 法各种合作
Executed at El Monte,	California on this _	/31H day of June 2019.	LESS W. Tag	
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Allen Lyons, Chief

Emissions Compliance, Automotive Regulations and Science Division

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OPTIONAL EXELETO FOR WORK TRUCKS	ROD ROTTINGSECTION	(V2349 3/ 2010 0 GAVA-043		57A 13235) (Estat 201 3 A 70 AAR	17710		
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GENERAL MOTORS LLC. Executive Order: A-006-2215

New Passenger Cars, Light-Duty Trucks and

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Page 3 of 4

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F) 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 [q HC/qallon 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** NMOG+NOx CO NOx **HCHO** PM (g/mi) (g/mi) (g/mi) (g/mi) (mg/mi) CERT STD CERT STD CERT STD CERT STD CERT STD * * * FTP@50K * * * * GASOLINE-FTP@UL 0.015 0.070 0.8 1.7 4 0.001 0.003 TIER3 E10 GASOLINE-0.035 50°F @4K 0.140 1.1 1.7 16 TIER3 E10 NMOG+NOx (g/mi) CO (g/mi) **FUEL TYPE** CERT STD CERT STD HWFET @ 50K HWFET @ UL GASOLINE-TIER3 E10 0.007 0.070 20°F @ 50K COLD CO E10 REGULAR GASOLINE (TIER3) 2.8 12.5 SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS **US06** SC03 COMPOSITE **FUEL TYPE** NMOG+NO_x CO NMOG+NOx NMOG+NO_X PM CO CO PM (g/mi) (g/mi) (mg/mi) (g/mi) (g/mi) (g/mi) (g/mi) (mg/mi) CERT @ 4K STD * * CERT * * 1 * * 0.016 2.8 * GASOLINE-@ UL STD 6 0.083 4.2 TIER3 E10 BIN 0.080 WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS WHOLE VEHICLE EVAPORATIVE TESTING **EVAPORATIVE** RL (g/mi) @ UL **FUEL TYPE** 3DHS (g/test) @ UL 2DHS (g/test) @ UL **FAMILY CERT** STD FEL CERT STD **FEL CERT** STD GASOLINE-0.334 0.500 LGMXR014640A 0.450 0.343 0.500 0.450 0.00 0.05 TIER3 E10 ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS **FUEL ONLY EVAP & CANISTER BLEED** ORVR (g/gallon) @ UL **EVAPORATIVE** 3DHS RIG TEST 2DHS RIG TEST **BLEED CANISTER FAMILY** (g/test) @ UL (g/test) @ UL TEST (g/test) @ 4K **FUEL TYPE FUEL TYPE** CERT STD **CERT** STD **CERT** STD **CERT** STD

GASOLINE-

TIER3 E10



GENERAL MOTORS

Executive Order: A-006-2215

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	CERT		STD				
LGMXR014640A	LGMXR014640A-LK1	CONTROL SEA OFFICE CONTROL CONTROL OF THE SEA OF THE SE	Company of the second s	0.02				

*: 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; 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; 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/\$: 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; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle; NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits, S = credits for some/select models

2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
CHEVROLET	BLAZER FWD	LDT3	2.5	A9	LGMXR014640A	1	P
GMC CONTRACT	ACADIA FWD	LDT3	2.5	A9	LGMXR014640A	1	P (2)

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