

GENERAL MOTORS LLC.

Executive Order: A-006-2253

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

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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 GRO)UP II	VEOR	MATION					
MODE	L		_				11 01			T			
YEAR		EST GROUP		VEHIC	LE CLASS(E	S)		FUEL CATEGORY			FUEL TYPE		
2021	MG	MXV01.4050		PC				DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
	USEFUL LIFE (miles) VEHICLE EMISSION						CATE	GORY	INTERIM / IN	ITERI	MEDIATE IN-USE STD		
EXH	/ORVR	EVAP			FTP		SF	TP	FTP		SFTP		
15	0000	15000	0	LEV3	ULEV70	LEV	3 C	OMPOSITE	*		PM		
SPE	CIAL FE	ATURES & EX	HAL		ON CONTRO	L		OBD S	TATUS	E	NGINE DISPLACEMENT		
1		SFI, T	NC (2), HO2S(2)			FULL	ALL MODELS				
*			,	k			F	PARTIAL	*		1.4		
*	*						PAR	TIAL WITH	*				
		Е	VAP	ORATIVE &	REFUELING	(EVA	P/OR	VR) FAMILY	INFORMATIO	N			
EVA	P / ORV	R FAMILY	EV	APORATIVE	STD CATE	GORY	RY EVAP EMISSION STD VEHICLE CLASS			S	SPECIAL FEATURES		
M	IGMXR00	95805		L	EV 2		PC				HCT		
					EMISSION CI	REDIT	INFO	ORMATION					
	EDIT FO	X FLEET AVE. OR EXTENDED RANTY	1	Autorities des l'esteur	REDIT FOR N ZERO-EVAP	ON-P	PZEV NMOG CREDIT FOR DOR			R	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N				N		N		
				NMOG	AND FLEET	AVE	RAGI	E INFORMA	TION				
NMOG RAF	NM(O(=/NM)H() P(=+1) /(1=3/			0-375	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	V) LDT	NMOG+NOX FLEET ST LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)		NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)				
*	*	1.10		0.040	0	.058			0.065	*			
NAME OF TAXABLE PARTY.	A PERSONAL PROPERTY.		-	The second secon		The same of the sa			THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	The Party of the P			

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.)



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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).

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 23 and day of April 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division



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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 [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

1	F	I	F	L	T	V	P	F
-1		u	_	_		5		٠.

		NMOG+NOx (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- TIER3 E10	0.015	0.070	0.3	1.7	*	*	*	4	0.000	0.003
50°F @4K	*	*	*	*	*	*	*	*	*		

	FUEL TVDE	NMOG+N	Ox (g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-TIER3 E10	0.001	0.070			
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			1.0	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

					SC03	3	COMPOSITE			
	FUEL TYPE		NMOG÷NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
		STD	*	*		*	*			
		CERT	*	*	1	*	*	0.012	0.5	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	6	*	*	0.077	4.2	*
		BIN						0.080		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

	FUEL TYPE		WHOLE \						
EVAPORATIVE FAMILY		3DHS (g/test) @ UL			2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
MGMXR0095805	GASOLINE- TIER3 E10	0.308	0.50	*	0.414	0.65	*	0.00	0.05

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

				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
MGMXR0095805	GASOLINE- TIER3 E10	0.17	0.20	*	*	*	*	*	*	*		



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD						
*	*	*	*						

*: 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; 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/\$; 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; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); 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

2021 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH	OBD
CHEVROLET	SPARK	PC	1.4	CV,M	MGMXR0095805	1	F
CHEVROLET	SPARK ACTIV	PC	1.4	CV,M5	MGMXR0095805	1	F