

## GENERAL MOTORS LLC.

Executive Order: A-006-2223

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 IN	IFORI	MATION						
MODE		ST GROUP	VEHICL	HICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE				
2020	LG	MXT03.0352			LDT4		DEDICATED SINGLE FUEL VEHICLE			DIESEL				
USEFUL LIFE (miles) VEHICLE EMISSION (							CATEGORY INTERIM / INT				ERMEDIATE IN-USE STD			
	I/ORVR	EVAP	FTP			SF	TP	FTP		SFTP				
150000 *				LEV3	LEV160 LEV 3 COM			MPOSITE	SITE PM		PM			
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS								OBD S	STATUS		ENGINE DISPLACEMENT (L)			
OC+DPF-SCRC, SCRC+NH3OC, DFI, CAC, TC, HP-EGR, LP-EGR, EGRC, NOXS(3), PMS, RDQS								FULL	*	4000-500 FEE				
*	* *							ARTIAL	*	変が世界	3.0			
*					20 mm	PARTIAL WITH FINES		ALL MODELS		50 50 50 50 50 50 50 50 50 50 50 50 50 5				
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION														
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR							1		SSION STD E CLASS		SPECIAL FEATURES			
	*			*			*			*				
				E	EMISSION C	REDI	TINFO	ORMATION						
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY  NMOG CREDIT FOR ZERO-EVA							ZEV	NMOG CREDIT FOR DO			OPTIONAL EXH. STD FOR WORK TRUCKS			
N N								1 2 2	N					
NMOG AND FLEET AVERAGE INFORMATION														
NMOG RAF	CH4 RAF	FTP NMOG/NMH RATIO	HO/NMHC RATIO	D( ±1 1) 1 (0-3/50 1			V) LDT	+NOX FLEET S (3751 LVW-8500 R) + MDPV (g/m	0	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)				
*	*	*	* * 0.06						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.)



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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).

## BE IT FURTHER RESOLVED:

The listed vehicle models are conditionally certified in accordance with 13 CCR Section 1968.2(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the on-board diagnostic II (OBD) system of the vehicles has been determined to have eleven (11) deficiencies. The listed vehicle models are approved subject to the manufacturer paying a fine of three hundred seventy five dollars (\$375) per vehicle for the third through eleventh deficiencies in the listed test group that is produced and delivered for sale in California.

On a quarterly basis, the manufacturer shall submit to the Air Resources Board reports of the number of vehicles produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2020 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all vehicles covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$37,500 per violation per vehicle pursuant to HSC Section 43154.

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 \_\_\_\_\_\_\_\_day of July 2019.

Lyons, Chief

Emissions Certification and Compliance Division



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							AT	TAC	HME	ENT								
	ΕΥΗΔΙ	IST	AND	FVΔP	ORA	TIVE	FMIS	SION S	TAN	DARI	S AND	CERT	IFIC	ATION	LEVI	ELS		
											EVELS (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														
				NMHC+NOx (g/mi)			CO (g/mi)			NOx (g/mi)			HCHO (mg/mi)		PN (g/m			
				CERT	S	ГD	CERT	STE	)	CERT	STD	CEF	RT	STD	CEF	RT	STD	
TP@50K		*		*	,	*	*	*		*	*	*		*	*		*	
FTP@U	L DIES	EL-E	PA (	0.121	0.1	160	0.1	4.2	2	*	*	*		4 0.0		00	0.003	
50°F @4	ıĸ	*		*	,	*	*	*		*	* *			*				
				FUEL TYPE						N	NMHC+NOx (g/mi)					CO (g/mi)		
				TOLLTITL						CERT		STD	Secretaria de la constanta de		T STD		STD	
HWFET @ 50K			*						*		*	16						
HWFET @ UL				DIESEL-EPA						0.031		0.16	.160					
20°F @ 50K				*										*			*	
_			SI	FTP EXI	HAUS	T EMI	SSION	STANDA	ARDS	AND C	ERTIFICA	ATION I	EVEL	.s	<del></del>			
							S06				SC03				OMPO	SITE	-	
19 (19) 18 (19)	FUEL T	ГҮРЕ		NMHC+NOx (g/mi)			CO (g/mi)		PM (mg/mi)		NMHC+NOx (g/mi)		10.000.00	NMHC+NOx (g/mi)		CO /mi)	PM (mg/mi)	
0.414		*		т *			*			*		*						
@ 4K	*		STD	*		_	*				*							
			CERT				* 1		L	*		*	0.106		C	).1	*	
@ UL	DIESEL-	-EPA STD			*		*	6		*		*		0.083		. 2	*	
			BIN										25	0.180				
		WH	OLE VI	EHICLE	EVA						S AND C		CATIC	N LEVE	LS			
EVAPORATIVE FAMILY		FUEL TYPE			WHOLE VEHICLE EVAI  (PE 3DHS (g/test) @ UL					2DHS (g/test) @ UL			RL (g/ı			/mi) @ UL		
				_	CERT STD		FEL	CE	RT	STD		FEL		RT	T STD			
		-	*				*	*		*	*		k		*		*	
-		UEL (		CANIST		BLEED	EVAPO	DRATIVI	E EMI	SSION	STANDA	RDS AN	ID CE	RTIFICA	TION	LEV	ELS	
<u> </u>				2,							NLY EVA							
EVAPORATIVE FAMILY		ORVR (g/gal			, —		FUEI	FUEL TYPE		DHS RIG TEST (g/test) @ UL		2DHS RIG (g/test) (			BLEED CANI TEST (g/test)			
		FU	IEL TYI	PE CE	RT	STD			CI	RT STD		CER	Т	STD	CE		STD	
	*		*	* *			*			* * *			*	*		*		
		EFF	ECTIV	/E LEA	K DI	AMET	ER ST	ANDAF	RD AN	ND CE	RTIFICA	TION L	EVE	L (INCH	ES)			
EVAI	EVAPORATIVE FAMIL				LEAK FAMILY				CERT					STD				



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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: 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	SILVERADO 2WD	LDT4	3.0	A10	*	1	\$
CHEVROLET	SILVERADO 4WD	LDT4	3.0	A10	*	1	\$
GMC	SIERRA 2WD	LDT4	3.0	A10	*	1	\$