ACALIFORNIA
CALIFORNIA AIR RESOURCES BOARD

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.

0				TEST GROUP INFORMATION									
MODE		EST GROUP	VEHICLE CLASS(ES)					FUEL C	ATEGORY		FUEL TYPE		
2020	LG	MXV03.6166	- 1		PC			FLEX-FUEL VEHICLE (FFV)			85% ETHANOL, GASOLINE		
	USEFUL	LIFE (miles)		VEH	ICLE EMISS	ION C	ATE	GORY	INTERIM / IN	TERM	MEDIATE IN-USE STD		
EXH	ORVR	EVAP			FTP		SF	ТР	FTP	SFTP			
15	0000	15000	0	LEV3	ULEV70	LEV	3 CC	MPOSITE	*	PM			
SPE	CIAL FE								TATUS	E	NGINE DISPLACEMENT (L)		
1	DFI, 2TWC, 2HO2S(2), TWC						FULL	*					
*			*			PARTIAL ALL MODELS				3.6			
*	×		*				PARTIAL WITH *						
	WARE STREET	E	VAPO	DRATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	INFORMATIO	N			
EVA	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR				GORY	,	EVAP EMISSION STD VEHICLE CLASS SPECIAL FEAT						
I	LGMXR0133704 LEV 2 PC				PC .		*						
LGMXR0133810 LEV				EV 2	V 2 PC				HCT				
	t n si Watan ka Kalang Santaka d	in Caracteristics in Proceeding of Cargos, Philosophia			EMISSION C	REDIT	INFO	RMATION	and and the second of the s		gang salah na tina pang manang sanang salah ng tina ng Ng tina ng tina		
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY					REDIT FOR NON-PZEV ZERO-EVAP			NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS		
N N					N N								
	an San Stand San	337.004 <sup>-105</sup> 4.743.136.2415.61243-035.005980		NMOG	AND FLEE	T AVE	RAG	INFORMA	TION		ويعتوي والمراجع		
NMOG RAF	CH4 RAF	FTP NMOG/NMHO RATIO (GASOLINE)	10	HO/NMHC RATIO ASOLINE)	PC+LDT (	NMOG+NOX FLEET & PC+LDT (0-3750 LV (g/mi)			+NOX FLEET S (3751 LVW-850( R) + MDPV (g/m		IMOG+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.)



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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 day of July 2019.

CATION Lyons, Chief Complete Compliance Division



**FUEL TYPE** 

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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

					NMOG+NOx CO (g/mi) (g/mi)			NOx (g/mi)			HCHO (mg/mi)		PM (g/mi)					
				Γ	CERT	STE	CE	RT	STD	CE	RT	STD	CER	Т	STD	CERT	STD	
FTP@5	OK		*		*	*	,	*	*	1	*	*	*		*	*	*	
FTP@L		E85- (GASC TIERS	DLIN	E-	0.029 (0.015	0.07		.6 .3)	1.7 (1.7)		* *)	* (*)	1 (*)		4 (4)	0.000 (0.001)	0.003 (0.003)	
50°F @	4K		*		*	*		*	*	1	*	*	*		*	Real Source	14	
lingent conjunction				Constanting of the	and an and an address of the second secon						NN	IOG+N	Ox (g/mi)	and the second second	(	)		
						FUEL 1	YPE				CE		STD		CERT	Ť	STD	
HWFE	т@:	50K				*					*		*					
HWFE					(GAS	E85-T DLINE-T		10)			0.0		0.070					
20°F	@ 50	ж					EPA 1		(TIER3) 3) - CO			and and a second se			3.0 (3.3)			
				\$	SFTP E	HAUST			TANDAR	DS AN	ND CE		ATION L	EVE		a a a a a a a a a a a a a a a a a a a		
a a					di.			US06			SC03				COMPOS			
	FUI	EL TY	PE	f in Nor		)G+NOx g/mi)	CC (g/m		PM (mg/m		IMOG (g/r	i+NOx ni)	CO (g/mi)		lOG+NOx (g/mi)			
@ 4K		*		CER	Г	*	*			-	*	,	*					
3				STD		*	*		$\mathcal{R} \in \mathcal{H}$		*		*			MPOSITE CO (g/mi) 0.5 4.2 0.4 4.2 0.4 4.2 S (g/mi) @		
				CER	The second second second second	*	*		1		*	in the second second	*		0.022		*	
@ UL	E85	5-TIE	R3	STD	)	*	*		6		#	,	*				*	
				BIN	e Albert		ALC: NO.	li li				10 64			0.080			
				CER	Г	*	*		1		*		*	-	0.023	0.4	*	
@ UL		SOLIN ER3 E		STD		*	*		6		*		*	1	0.083	4.2	*	
				BIN											0.080	Beer and the second		
Landon and American	a contractor ka		WH	OLE \	/EHICLE	EVAPO	RATIVE	EMI	SSION S	TAND	ARDS	S AND	CERTIFIC	ATIC	N LEVEL	S	en esta de la desta de la d	
							WHOLE	E VEI	ICLE EV	APOF	RATIV	E TEST	TING					
EVAP FA	ORA		F	UEL T	YPE	3DHS	6 (g/test	)@u	IL	2	2DHS	(g/test)	) @ UL	RL (g/mi) @ U		) UL		
				0		CERT	STD		FEL	CERT		STD	FEI		CERT	-	STD	
LGMXF	R013	3704		ASOLI IER3 PRE	E10	0.403	0.50		*	0.283		0.65	*		0.00		0.05	
LGMXF	R013	3810	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ASOLI IER3 PRE	E10	0.403	0.50		*	0.283		0.65	*		0.00		0.05	

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; 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; AMS: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS:	AR	CALIF Ir resou			GE	NERAL	MOTORS C.	N		kecutive Ord enger Cars, I	Light-Duty Vedium-Du	Trucks and		
EVAPORATIVE FAMILY   ORVR (g/gallon) @ UL   FUEL TYPE (g/test) @ UL   3DHS RIG TEST (g/test) @ UL   2DHS RIG TEST (g/test) @ UL   BLEED CANISTER TEST (g/test) @ 4K     LGM0R0133704   GASOLINE- TIER3 E10   0.00   0.20   * </td <td>ORVR / FUI</td> <td>EL ONLY / CA</td> <td>ANISTER</td> <td>BLEED</td> <td>EVAPO</td> <td>RATIVE</td> <td>EMISSION</td> <td>STANDA</td> <td>RDS AND</td> <td>CERTIFIC</td> <td>ATION LEV</td> <td>ELS</td>	ORVR / FUI	EL ONLY / CA	ANISTER	BLEED	EVAPO	RATIVE	EMISSION	STANDA	RDS AND	CERTIFIC	ATION LEV	ELS		
FAMILY   FUEL TYPE   CERT   STD   (g/test) @ UL   (g/test) @ UL   TEST (g/test) @ 4K     LGMCR0133704   TER3 510   0.00   0.20   *<														
FUEL TYPE   CERT   STD   CERT		ORVR (g/	/gallon) @	DUL	FUEL	TYPE								
LGMXR0133704 TIER3 E10 0.00 0.20 *		FUEL TYPE	CERT	STD								T T		
LGMXR0133810 TIER3 E10 PREM 0.00 0.20 *	LGMXR0133704	TIER3 E10		0.20	*		*	#	*	*	*	¥		
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:	LGMXR0133810	TIER3 E10		0.20	*		*	*	*	*	*	*		
* * * * * * * * * * * * * * * * * * *	E	FFECTIVE	LEAK D	IAMET	ER STA	NDAR	D AND CE	RTIFICA	TION LE	VEL (INCH	IES)			
*: 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: 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; 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) fue; F10: "10%" ethanol ("90%" gasoline) fue; A: automatic (with lockup); M: manual transmission; SA: semi-automatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission;	EVAPORATIVE FAMILY LEAK FAMILY CERT STD													
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hybrid electric vehicle; NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits, S = credits for some/select models	LDT<6000#GVWR 8500#ALVW; MDV duty passenger ve emission limit; GV ULEV: ultra LEV; S ADSTWC: adsorbi SCRC/SCR-N or S continuous/periodi heated/oxygen ser RDQS: reductant of secondary air inject direct/indirect fuel fines on-board diag suffix: series; CNG E10: "10%" ethano continuously varial automated manual hybrid electric vehi	4,3751-5750# 4': medium-dui hicle; HDV: h WR: gross ve SULEV: super ng TWC; HAC SCRC-NH3: si- c trap oxidize asor; WR-HO2; quality sensor vition (belt driv injection; TC/ gnostic; DOR v/LNG: compro- ol ("90%"gaso ble transmissis- selectable trained icle; NMOG +	LVW; LDT ty vehicle; eavy-duty hicle weig r ULEV; Z C: HC ads elective c: C: HC ads elective c: SC: HC ads elective c: SC: turbo; C: turbo; C: turbo; C: turbo; c: direct oz essed/liqu fline) fuel; ion; SCV: ransmissio	r3: LDT ( MDV4: vehicle; ht rating EV: zero orbing c atalytic n esel part catalytic n es	6001-850 MDV 850 ECS: en ; LVW: lo -emission atalyst; V eduction- ticulate fil ange/line sensor; i narger; C ucing; HC ucing; HC tural gas natic (with ble contin	00#GVW 01-1000 nission oaded vo n vehicl VU: war urea/an lter (acti ar/heate EGR: ez pulsed AC: cha CT: hydr ; LPG: I h lockup uously smissio	VR,3751-57 0#GVWR; I control syst ahicle weigh e; TZEV: tra m-up cataly nmonia; NH ve); GPF: F ad air-fuel ra khaust gas AIR; SFI/M arge air coo occarbon tra lquefied pe o; M: manu variable trar n; AER: all-	50#ALVW; MDV5: MD em; CERT: ansitional Z st; NAC: N 30C: amm PM filter for atio sensor; recirculatio FI: sequen ler; FFH: fL p; BCAN: t troleum ga: al transmission; electric ran	LDT4: LI V 10001- certificat adjusted L EV; TWC Ox adsor ionia oxid spark-igr NOXS: N n; EGRC itial/multip leel fired h bleed carb s; E85: "8 sion; SA: AM: auton ge; EAEF	DT 6001-850 14000#GVW ion; STD: sta .VW; LEV: ic /OC: 3-way/ ption catalys ation catalys ation catalys ited engine; JOX sensor; EGR coole ort fuel injec pater; F/P/\$: oon canister; 5%" ethanol semi-autom nated manu &: equivalent	0#GVWR, (R; MDPV: andard; FEL ow emission oxidizing ca it; SCR-U o it; CTOX/P1 HO2S/O2S PMS: PM se r; AIR/AIRE tion; DFI/IF full/partial/ prefix 2: pa ("15%"gasc atic transmise AER; PHE	5751- medium- .: family a vehicle; atalyst; r r r r r c X: ensor; : : : : : : : : : : : : : : : : : : :		

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
CHEVROLET	IMPALA	PC	3.6	SA6	LGMXR0133704	1	P
CHEVROLET	IMPALA	PC	3.6	SA6	LGMXR0133810	1	P