California Environmental Protection Agency

OB Air Resources Board

GENERAL MOTORS LLC. Executive Order: A-006-1985

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

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Pursuant to the authority vested in the 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: 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	OUP II	NFOR	MATION					
MOD		TEST G	ROUP		VEH	IICLE CLASS(E	S)		FUEL C	ATE	GORY	FUEL TYPE		
201	.6	GGMXT0	1.3187			LDT3			FLEX-FU	EL V FFV)		85% E	THANOL, GASOLINE	
	USEF	UL LIFE	(miles)		V	EHICLE EMISS	ION	CATE	ORY	IN	TERIM / INT	FERMEDIATE IN-USE STD		
EX	H/ORV	/R	EVAF	,		FTP	Ι	SF	TP		FTP			SFTP
1	.20000		15000	0	COU	A TIER2 BIN4 NTED AS ARB EV2 ULEV	1	LEV 2 STAN	SFTP DARD		*		*	
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS OBD STATUS							JS	ENG	NE	DISPLACEMENT (L)				
1		27	WC, TW	C, 2H	D2S (2)	, DFI			FULL	AL	L MODELS			
*				*		· · · · · · · · · · · · · · · · · · ·		P	ARTIAL	*	4.3			
*				*	PARTIAL WITH *									
			E	VAPO	RATIVE	& REFUELING	(EV	AP/OR	VR) FAMIL	Y INF	ORMATION			
EV	AP / O	RVR FA	MILY	EVA	PORAT	TVE STD CATE	GOR	EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES			
	GGMXI	XR0176820			LEV 2			Ì	II	T3				*
	GGMXI	R022384	0			LEV 2			LDT3			*		
						EMISSION C	REDI	T INF	ORMATION					
		ALLOV	VANCE	FOR TE	ST GR	OUP			CREDIT F		NMOG CR		OR	OPTIONAL EXH
BA	SELINE	E PZEV	A	T PZE	′	TZEV	N	ON-PZ	EV ZERO-E	VAP	DC	OR		TRUCKS
	*			*		*			N		1	4		N
					NN	OG AND FLEE	T AV	ERAG	E INFORMA	TION				
NMO	G RAF	CH4 R		TP NMC			MHC I		PC+LDT	PC+LDT (0-3750 LVW) LDT (3751 L		NOX FLEET STD 751 LVW-8500 + MDPV (g/mi)		
	*	*		1.	04	0	.04			0.0	93			0.110

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.

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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 NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan 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 federally certified, and are certified under the provisions of 13 CCR Section 1961.2(a)(12) and the incorporated test procedures.

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 //

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

FTP@50K

FTP@UL

20°F @ 50K

E85-EPA

(GASOLINE -

TIER 2

Air Resources Board

0.027

(0.033) (0.070)

0.070

GASOLINE-COLD CO LOW OCTANE

0.4

(0.7)

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11

(11)

1.5

0.01

(0.01)

12.5

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS	FTP	HWFET	. 50°F.	20°F)	
EVUVO21 FIGURATION STATEMENT OF THE LOW LIGHT FEATURE		,	, ,		

	FUEL TYPE		NOx: oxid t factor; 2 IC/gallon	des of nitro DHS/3DHS dispensed]	gen; HCH [g HC/tes : on-board	O: formalde st]: 2/3 days d refueling v	ehyde; PM diurnal+h vapor reco	: particulate	matter; F _ [g HC/m m; mg: m	RAF: reactiv i]: running l illigram; mi:	rity oss;
14.72 111		NM (g/i	OG mi)	1	o mi)	NO (g/s		HC (mg			M mi)
0.0		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD

	UNLEADED)						1				
50°F @4K	*	*	*	*	*	*	*	*	*	70	
1 - 7 - 7			FUEL TVE	-			NOx	(g/mi)	* CO (c	(g/mi)	
			FUEL TYP	12		CERT		STD	CE	RT	STD
HWFET @	FET @ 50K *						*	*	1		
HWFET @	D UL	(GASOLINE	E85-EPA		(D)		00	0.05 (0.05)			

2.1

(2.1)

0.01

(0.01) (0.04)

0.04

(*)

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS US06 SC03

	FUEL TYPE			US06		SC03	3	COMPOSITE			
N	FUEL TYPE		NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMHC+NOx (g/mi)	CO (g/mi)	NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	
	GASOLINE	CERT	0.02	1.2		0.02	0.7	1000			
@ 4K	- TIER 2 UNLEADED	STD	0.40	10.5		0.31	3.5	न्यः स्थातं । १९		44	
		CERT	*	*	*	*	*	*	*	*	
@ UL	*	STD	*	*	*	*	*	* .	*	*	
		BIN			7			*		3-1	

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY			WHOLE						
	FUEL TYPE	3DHS (g/test) @ UL			2DI	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
GGMXR0176820	E10-EPA	0.55	0.90	*	0.38	1.15	*	0.00	0.05
GGMXR0176820	GASOLINE - TIER 2 UNLEADED	0.75	* .	*	0.48	*	*	0.00	*
GGMXR0223840	E10-EPA	0.71	0.90	*	0.76	1.15	*	0.00	0.05
GGMXR0223840	GASOLINE - TIER 2 UNLEADED	0.71	*	*	0.65	*	*	0.00	*

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ORVR / FU	EL ONLY / CA	NISTER	BLEED	EVAPORATIVE	EMISSION	STANDA	RDS AND	CERTIFICA	TION LEV	ELS		
				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE		IG TEST) @ UL	2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	ED BLEED C	STD		
GGMXR0176820	GASOLINE - TIER 2 UNLEADED	0.02	0.20	*	*	*	*	*	*	*		
GGMXR0223840	GASOLINE - TIER 2 UNLEADED	0.03	0.20	*	*	*	*	*	*	*		

*: 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; 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; PZEV: partial ZEV; AT PZEV: advanced technology PZEV; 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 sparkignited 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, 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

2016 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
CHEVROLET	C15 SILVERADO 2WD	LDT3	4.3	A 6	GGMXR0176820	1	F	*
CHEVROLET	C15 SILVERADO 2WD	LDT3	4.3	A6	GGMXR0223840	1	F	*
CHEVROLET	K15 SILVERADO 4WD	LDT3	4.3	A6	GGMXR0176820	1	F	*
CHEVROLET	K15 SILVERADO 4WD	LDT3	4.3	A 6	GGMXR0223840	1	F	*
GMC	C15 SIERRA 2WD	LDT3	4.3	A6	GGMXR0176820	1	F	*
GMC	C15 SIERRA 2WD	LDT3	4.3	A6	GGMXR0223840	1	F	*
GMC	K15 SIERRA 4WD	LDT3	4.3	A6	GGMXR0176820	1	F	*
GMC	K15 SIERRA 4WD	LDT3	4.3	A6	GGMXR0223840	1	F	*