GENERAL MOTORS LLC

EXECUTIVE ORDER A-006-2060

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 4

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.

grantou.											
			TES	T GROUP INFO	RMATION						
MODEL YEAR	TEST GRO	UP VEH	ICLE CLASS(ES)		FUEL CATEGORY		FUEL TYPE				
2017	HGMXT02.5	200	LDT2	DEDI	CATED SINGLE FUE VEHICLE	L	GASOLINE				
CONTROL OF	USEFUL LIF	E (miles)	VEHICLE	EMISSION CA	TEGORY	INTER	IM / INTERME	DIATE IN-USE STD			
EXH/ORVR EVAP FTP					SFTP	FT	P	SFTP			
120,000				ARB LEV2	SFTP STANDARD	*		*			
SPECIAL	FEATURES &	EXHAUST EMISSION	CONTROL SYSTEMS		OBD STATUS		ENGIN	IE DISPLACEMENT (L)			
1		TWC(2), HO2S(2), I	OFI	FULL	ALL MOI	DELS					
*		*		PARTIA	. *		2.5				
*		*		PARTIAL W FINES	/ITH .						
		and the second s	EVAPORATIVE & REFU	ELING (EVAP/C	ORVR) FAMILY INFOR	MATION		17 1 17 1 17 1 18 1 1 1 1 1 1 1 1 1 1 1			
EV	AP / ORVR FA	MILY EV	APORATIVE STD CATE	GORY EVA	AP EMISSION STD VEH	HICLE CLASS	SPE	ECIAL FEATURES			
ŀ	HGMXR01263	7A	LEV3 OPTION 2		LDT2			HCT			
H	HGMXR01383	5A	LEV3 OPTION 2		LDT2			HCT			
	*		*		*			*			
	E-11-11-11-11-11-11-11-11-11-11-11-11-11		EMISS	ION CREDIT IN	FORMATION	Debut to Child Towns, Jay					
		LOWANCE FOR TES			MOG CREDIT FOR	NMOG CRED	IT FOR DOR	OPTIONAL EXH. STD FOR			
BASEL	INE PZEV	AT PZEV	TZEV	NC	N-PZEV ZERO-EVAP			WORK TRUCKS			
		E. A. C. Spill St. Dings, & St. of	* * * * * * * * * * * * * * * * * * *		N	١	V Salary salarah (Salary)	N			
		•	NMOG AND	FLEET AVERA	GE INFORMATION						
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO		NMOG+NOX FLEET C+LDT (0-3750 LVW) (g		MOG+NOX FL 8500 GV	EET STD LDT (3751 LVW- WR) + MDPV (g/mi)			
*	*	1.04	*		0.086		0.101				

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.

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 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).

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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

_ day of July 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

(For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FT	P, HWFET	, 50 °F	, 20 °F	-)
---	----------	---------	---------	----

	FUEL TYPE	HCHO=formale HC/mi]=runnin	dehyde; PM=pa g loss; ORVR [g	rticulate matter;	RAF=reactivity ensed]=on-box	ard refueling vap	or; 2DHS/3DH	5 [g HC/test]=2/3	3 days diumal-	s of nitrogen; hot-soak; RL [g K=1000 miles; F	=degrees
1 - L 1 2 20 1 7 1		NMOG+N	Ox (g/mi)	CO (g/mi)	НСНО	(mg/mi)	PM (g/mi)	HWY NMOG	+NOx (g/mi)
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP @ 50K	*	*	*	*	*	*	*	*	*	*	*
FTP @ UL	GASOLINE-TIER2 UNLEADED	0.027	0.110	0.9	2.1	*	4	*	0.010	0.006	0.110
20°F @ 50K	GASOLINE-COLD CO LOW OCTANE	*	*	2.3	12.5	*	*	*	*	*	*
50°F @ 4K	*	*	*	*	*	*	*	*	*	*	*

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

2000				US	06				SC	203			CC	MPOSIT	E	
Service Co.	FUEL TYPE	NMHC (g/i		CO (g/mi)	PM (m	ng/mi)	NMHC (g/i		co (g/mi)	NMC	G+NOx (g/mi)	CO (9	g/mi)
The second		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	BIN	CERT	STD
@ 4K	GASOLINE-TIER2 UNLEADED	0.03	0.25	7.1	10.5	*	*	0.01	0.27	1.1	3.5	*	*	*	*	*
@ UL	GASOLINE-TIER2 UNLEADED	*	*	*	*	*	*	*	*	*	*	0.022	0.103	0.110	*	*

WHOLE VEHICLE EVAPORATIVE/ORVR EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE			WHOLE VE	EHICLE EV	APORATIVE	TESTING		RUNNIN	GLOSS	ON-BOARD REFUELING		
FAMILY	FUEL TYPE			S DIURNAL + HOT kK (g/test) @ UL		S DIURNAL K (g/test) @			(g/mi) @ UL		RECOVERY lon) @ UL	
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD	CERT	STD	
HGMXR012637A	EPA TIER3 E10	0.198	0.400	*	0.173	0.400	*	0.00	0.05	0.03	0.20	
HGMXR013835A	EPA TIER3 E10	0.257	0.400	*	0.340	0.400	*	0.00	0.05	0.02	0.20	
*	*	*	*	*	*	*	*	*	*	*	*	
*	*	*	*	*	*	*	*	*	*	*	*	
*	*	*	*	*	*	*	*	*	*	*	*	

FUEL ONLY & CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY			FUEL ONLY EVAP					
	FUEL TYPE	3-DAYS DIURN/ (g/test	AL + HOT SOAK) @ UL	2-DAYS DIURNA (g/test)		CANISTER BLEED (g/test)		
		CERT	STD	CERT	STD	CERT	STD	
HGMXR012637A	EPA TIER3 E10	*	*	*	*	0.006	0.020	
HGMXR013835A	EPA TIER3 E10	*	*	*	*	0.006	0.020	
*	*	*	*	*	*	*	*	

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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=LDT_6000#GVWR,3751-5750#LVW; LDT3=LDT 6001-8500#GVWR,3751-5750#ALVW; 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; 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 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; AlR/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-CARB: 85% ethanol+15% CA Phase2 gasoline; E85-EPA: 85% ethanol+15% Tier2 unleaded gasoline; E10-CARB: 10% ethanol+90% CA Phase2 gasoline; E10-EPA: 10% ethanol+90% CA Phase2 gasoline; E10-EPA: 10% ethanol+90% CV=continuously variable transmission; AM=automated manual t

2047 MODEL	VEAD.	VEHICLE MODELS INFORMATION	
2017 MODEL	ALVE.	VEHICLE MODELS INFORMATION	

MAKE	MODEL	VEH	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV
BUICK	ENVISION AWD	LDT2	2.5	A6	HGMXR012637A	1	F	*
BUICK	ENVISION FWD	LDT2	2.5	A6	HGMXR012637A	1	F	*
CHEVROLET	COLORADO 2WD	. LDT2	2.5	A6,M6	HGMXR013835A	1	F	*
CHEVROLET	COLORADO 4WD	LDT2	2.5	A6	HGMXR013835A	1	F	*
GMC	CANYON 2WD	LDT2	2.5	A6,M6	HGMXR013835A	1	F	**
GMC	CANYON 4WD	LDT2	2.5	A6	HGMXR013835A	1	F`	*