GENERAL MOTORS LLC

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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	GROU	JP INFORMA	TION				
MODEL YEAR	TEST GRO	UP	VEHIC	LE CLASS(ES)		FUEL	CATEGORY	FU	FUEL TYPE		
2017	HGMXJ03.6165 LDT2, PC						ED SINGLE FUEI ÆHICLE	G	GASOLINE		
And the Control of the Control	USEFUL LIF	E (miles)	unite librar a	VEHICLE	EMISS	ION CATEGO	ORY	INI	ERIM / INTERME	DIATE IN-USE STD	
EXH/C	DRVR	EVAP		FTP		S	FTP		FTP	SFTP	
120,000 150,000				USEPA TIER3 BIN110 COUNTED AS ARB LEV2 ULEV				*			
SPECIAL I	FEATURES &	EXHAUST EN	IISSION (CONTROL SYSTEMS		en Caraci Lind Sur.	OBD STATUS		ENGIN	IE DISPLACEMENT (L)	
1		2TWC(2), 2H	D2S(2), D	FI		FULL	ALL MOD	DELS	S		
2	2TWC, 2HO2S(2), DFI					PARTIAL *				3.6	
3	2TWC, TWC, 2HO2S(2), DFI					PARTIAL WITH * FINES					
18,36 20,000,420,0	ver to the section of	N Exercise Selfan Selfan Selfan	E	VAPORATIVE & REFUE	LING (EVAP/ORVR) FAMILY INFORM	MATION	20 2 (N.) (N.) (N.)		
EV	AP / ORVR FA	MILY	EVA	PORATIVE STD CATEG	ORY	EVAP EN	ISSION STD VEH	HICLE CLAS	SS SPE	CIAL FEATURES	
H	HGMXR01108	375		LEV 2	V 2 PC					НСТ	
H	HGMXR01128	335		LEV 2			PC		HCT		
H	HGMXR01208	318		LEV 2			PC		•		
H	HGMXR01303	0B		LEV 3 OPTION2		PC			HCT		
F	HGMXR01338	310		LEV 2	PC				*		
H	HGMXR01388	313		LEV 2			LDT2		*		
elemines et egge tratales per e	SELECTION NAME AND ADDRESS OF THE			EMISSIC	ON CRI	EDIT INFOR	MATION	CONTRACTOR OF THE CONTRACTOR O	The state of the s		
BASEL		LLOWANCE F					CREDIT FOR EV ZERO-EVAP	NMOG CF	REDIT FOR DOR	OPTIONAL EXH. STD FOR	
BASELINE PZEV AT PZEV * *				1ZEV			N	EV ZERU-EVAP		N N	
5 5-30 F 41 V V	of Should and the desire	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A STATE OF	NMOG AND F	LEET	AVERAGE IN	IFORMATION	Stranger . Charles	ever the transfer was to the	THE STREET STREET, S. P. L. M. STREET, S. P. L. STREET, S	
MOG RAF	CH4 RAF	FTP NMOG		HCHO/NMHC RATIO		NMO	S+NOX FLEET T (0-3750 LVW) (g		OG+NOX FLEET STD LDT (3751 LVW- 8500 GVWR) + 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

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 (FTP, HWFET, 50 °F, 20 °F)

	FUEL TYPE	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/3DH5 [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; ml=mile; K=1000 miles; F=Fahrenheit; FTP=federal test procedure; SFTP=supplemental FTP										
		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	0.0405	0.110	1.14	2.1	*	4	*	0.010	0.0239	0.110	
20°F @ 50K	GASOLINE-COLD CO LOW OCTANE	*	*	4.20	10.0	*	*	*	*	*	*	
50°F @ 4K	*	*	. *	*	*	*	*	*	*	*	*	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

		US06					SC03				COMPOSITE					
	FUEL TYPE	NMHC (g/r		CO (g	g/mi)	PM (m	ng/mi)	NMHC (g/s	+NOx mi)	co (g/mi)	NMC	G+NOx (g/mi)	CO (g/mi)
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	BIN	CERT	STD
@ 4K	GASOLINE-TIER2 UNLEADED	0.057	0.14	1.89	8.0	*	*	0.027	0.20	1.00	2.7	*	*	*	*	*
@ UL	GASOLINE-TIER2 UNLEADED	*	*	*	*	*	*	*	*	*	*	0.052	0.103	0.110	*	*

WHOLE VEHICLE EVAPORATIVE/ORVR EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE		3-DAYS DIURNAL + HOT 2-DAYS DIURNAL + HOT (g/mi) @ SOAK (g/test) @ UL SOAK (g/test) @ UL	IG LOSS		REFUELING						
FAMILY	FUEL TYPE					YS DIURNAL + HOT DAK (g/test) @ UL CERT STD	VAPOR RECOVERY (g/gallon) @ UL				
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD	CERT	STD
HGMXR0110875	GASOLINE - TIER 2 UNLEADED	0.364	0.50	*	0.188	0.65	*	0.00	0.05	0.025	0.20
HGMXR0112835	GASOLINE - TIER 2 UNLEADED	0.34	. 0.50	*	0.58	0.65	*	0.00	0.05	0.02	0.20
HGMXR0120818	GASOLINE - TIER 2 UNLEADED	0.34	0.50	*	0.58	0.65	*	0.00	0.05	0.025	0.20
HGMXR013030B	GASOLINE- LEV3 E10	0.242	0.300	*	0.234	0.300	*	0.00	0.05	*	*
HGMXR013030B	GASOLINE - TIER 2 UNLEADED	*	*	*	*	*	*	*	*	0.011	.0.20
HGMXR0133810	E10-EPA	0.25	*	*	0.30	*	*	0.00	*	*	*
HGMXR0133810	GASOLINE - TIER 2 UNLEADED	0.20	0.50	*	0.29	0.65	*	0.00	0.05	0.01	0.20
HGMXR0138813	E10-EPA	0.26	*	*	0.35	*	*	0.00	*	*	*
HGMXR0138813	GASOLINE - TIER 2 UNLEADED	0.23	0.65	*	0.36	0.85	*	0.00	0.05	0.06	0.20

FUEL ONLY & CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY			FUEL ONLY EVAP					
	FUEL TYPE		AL + HOT SOAK) @ UL	2-DAYS DIURNA (g/test)		CANISTER BLEED (g/test)		
		CERT	STD	CERT	STD	CERT	STD	
HGMXR013030B	GASOLINE- LEV3 E10	. *	*	*	*	0.008	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#LVW; LDT3=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=dlesel 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; FI/IS=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; E10-CARB: 10% ethanol+90% CA Phase2 gasoline; E10-EPA: 10% ethanol+90% CA Phase2 gasoline; E10-EPA: 10% ethanol+90% Circle automatic transmission; CV=continuously variable transmission; AM=automated manual transmission; AMS=automated manual transmission; OT=other tra

2017 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
BUICK	LACROSSE	PC	3.6	SA8	HGMXR0110875	3	F	*
BUICK	LACROSSE AWD	PC	3.6	SA8	HGMXR0110875	3	F	*
CADILLAC	ATS	PC	3.6	SA8	HGMXR0120818	1	F	*
CADILLAC	ATS AWD	PC	3.6	SA8	HGMXR0120818	1	F	*
CADILLAC	CT6 AWD	PC	3.6	SA8	HGMXR0112835	2	F	*
CADILLAC	CTS	PC	3.6	SA8	HGMXR0133810	1	F	*
CADILLAC	CTS AWD	PC	3.6	SA8	HGMXR0133810	1	F	*
CADILLAC	XTS	PC	3.6	SA6	HGMXR0133810	3	F	*
CADILLAC	XTS AWD	PC	3.6	SA6	HGMXR0133810	3	F	*
CHEVROLET	CAMARO	PC	3.6	M6	HGMXR013030B	1	F	.*
CHEVROLET	CAMARO	PC	3.6	SA8	HGMXR013030B	1	F	*
CHEVROLET	CAMARO	PC	3.6	M6	HGMXR0133810	1	F	*
CHEVROLET	CAMARO	PC	3.6	SA8	HGMXR0133810	1	F	*
CHEVROLET	EQUINOX AWD	LDT2	3.6	A6	HGMXR0138813	3	F	*
CHEVROLET	EQUINOX FWD	LDT2	3.6	A6	HGMXR0138813	3	F	*
GMC	TERRAIN AWD	LDT2	3.6	A6	HGMXR0138813	3	F	*
GMC	TERRAIN FWD	LDT2	3.6	A6	HGMXR0138813	3	F	*