California	Environmental	Protection	Agency	
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GENERAL MOTORS LLC

O Air Resources Board

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.

				TEST	GROU	JP INFORMA	TION					
MODEL							CATEGORY	FU	FUEL TYPE			
2017 HGMXV01.8050 PC							D ELECTRIC EHICLE	GASOLINE				
P. Steppens	USEFUL LIF	E (miles)	attack of a that & etc.	VEHICLE	EMISS	NON CATEGO	DRY	INT	ERIM / INTERME	DIATE IN-USE STD		
EXH	EXH/ORVR EVAP FTP					SI	TP		FTP SFTP			
120,000 150,000				USEPA TIER3 BI COUNTED AS A LEV2 ULEV	ARB	LEV2 SFTP	STANDARD		*	*		
SPECIAL	FEATURES &	EXHAUST E	MISSION	CONTROL SYSTEMS		and the second states fight	OBD STATUS	a della de la secola de la secola	ENGIN	E DISPLACEMENT (L)		
1	TWO	, HO2S(2), [OFI, EGR,	EGRC		FULL	ALL MOD	DELS				
*		4			F	PARTIAL	*			1.8		
*			PAR	FINES	*							
			E	VAPORATIVE & REFU	ELING	(EVAP/ORVR) FAMILY INFORM	MATION	an baran an a			
E	VAP / ORVR FA	MILY	EVA	PORATIVE STD CATE	GORY	EVAP EN	ISSION STD VEH	HICLE CLAS	SS SPE	ECIAL FEATURES		
	HGMXR0102	315		LEV2			PC		*			
	*			*	*					*		
	*			*	* *				*			
i ti ta anno a baaran abia	adaman mangan a sanada hanya saria	and the second second second	an a	EMISS	ION CR	EDIT INFOR	MATION		an a	e		
	A	LLOWANCE	FOR TEST	GROUP			CREDIT FOR	NMOG CE	EDIT FOR DOR	OPTIONAL EXH. STD FOR		
BAS	ELINE PZEV	A	T PZEV	TZEV		NON-PZ	EV ZERO-EVAP	NINOG CF		WORK TRUCKS		
		the second superior and second second second	*	The second secon	ble matter that	The second s	N	and the second se	N	N		
				NMOG AND	FLEET	AVERAGE IN	FORMATION					
NMOG R	AF CH4 RAF	FTP NMO RAT		HCHO/NMHC RATIO			G+NOX FLEET T (0-3750 LVW) (g	/mi) NMOG+NOX FLEET STD LDT (3751 8500 GVWR) + MDPV (g/mi)				
*	*	1.0	4	0.040			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).

California Environmental Protection Agency

GENERAL MOTORS LLC

EXECUTIVE ORDER A-006-2063

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Page 2 or 1

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

224 day of July 2016.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

California Environmental Protection Agency

O Air Resources Board

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GENERAL MOTORS LLC

EXECUTIVE ORDER A-006-2063

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

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)

										- (,		F, 20 F	,							
	FUEL	TYPE	HCHO= HC/mil=	formaldehyd	e; PM=par	ticulate matt HC/gallon d	er; RAF=re	activity adj	ustment fac	tor; 2DHS/3D	DHS [g HC	/test]=2/3 da	ays diurnal-	+hot-soak; F	RL (g					
Tre a											/mi) PM (g/mi)			HWY NMOG+NOx (g/m						
a start	•					CERT				STD			STD		T S	STD				
@ 50K		*	*	* *		*	*		*	*		*	*	*		*				
@ UL	UNLE	UNLEADED 0.06		0.061 0		0.52	0.52 2.1		*	4		*	0.010	0.01	0.110					
a SUK					* 1.70 10.0 * * * *		1.70 10.0						*							
@ 4K		*	*				-			* * * *					_	*				
						EMISSION	STANDA	ARDS AN	DCERTIF	ICATION I	EVELS									
				US	06				SC	03	COMPOSITE									
FUE			(g/mi)		CO (g/mi)		ng/mi)			CO (g/mi)		NMOG+NOx		g/mi)	CO (CO (g/mi)				
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	BIN	CERT	STI				
		² 0.0275	0.14	0.45	8.0	*	*	0.096	0.20	0.97	2.7	*	*	*	*	*				
		2 *	*	*	*	*	*	*	*	*	*	0.066	0:103	0.110	*	*				
		W	HOLE VI	EHICLE E	VAPORA	TIVE/ORV	R EMISS	ION STAN	DARDS	AND CERT	IFICATIO	ON LEVEL	S							
					WHOL	E VEHICL	E EVAPO	RATIVE	TESTING		DI			ON-BOAF	D REFU	ELING				
PORAT	IVE	FUEL TYP					r	2-DAYS DIURNAL + HOT SOAK (g/test) @ UL							(g/gallon) @ UL					
								CERT			LC	ERT	STD	FEL	CER	TS	TD	CERT	S	TD
XR0102	2815 G			0.3460	0.50) *	0.	.3660	0.65	*	0.00	0 0	.05	0.023	0.20					
*		*		*	*	*		*	*	*	*		*	*	*					
*		*		*				*		*			*	*		*				
		*			-					*				*		*				
*		*		*	*	*		*	*	*	*		*	*	*					
		FUEL	ONLY &	CANISTER	RBLEED	EVAPOR	ATIVE EN	ISSION :	STANDAR	RDS AND C	CERTIFIC	ATION LI	EVELS							
	8					FUEL ON	LY EVAP	ORATIV	E TESTIN	G										
PORAT	IVE	FUEL TY	PE	3-DAYS DIURNAL + HOT SOAK (g/test) @ UL					2-DAYS DIURNAL + HOT SOAK (g/test) @ UL				CANISTER BLEED (g/test)							
				CERT			STD		CERT ST		TD	D CE		ERT STD						
	@ UL @ 50K @ 4K @ 4K GASOI UNI GASOI UNI GASOI UNI CASOI UNI	© 50K © UL GASOLI © 50K GASOLIN © 50K GASOLIN © 4K FUEL TYPE GASOLINE-TIER: UNLEADED GASOLINE-TIER: UNLEADED PORATIVE * * *	@ UL GASOLINE-TIER2 UNLEADED @ 50K GASOLINE-COLD CO LOW OCTANE @ 4K * FUEL TYPE NMHC- (g/m CERT GASOLINE-TIER2 UNLEADED 0.0275 GASOLINE-TIER2 UNLEADED 0.0275 GASOLINE-TIER2 UNLEADED * VNLEADED * VNLEADED * FUEL TYPE FUEL TYPE PORATIVE GASOLINE-T UNLEADED * * * * * * * * * * * * * * * * * * * * * * * *	FUEL TYPE HCHO= HC/mi]= Fahrent-i @ UL GASOLINE-TIER2 UNLEADED 0.00 @ 50K * * @ UL GASOLINE-TIER2 UNLEADED 0.00 @ 4K * * FUEL TYPE NMHC+NOx (g/mi) * GASOLINE-TIER2 UNLEADED 0.0275 0.14 GASOLINE-TIER2 UNLEADED * * GASOLINE-TIER2 UNLEADED * * WHOLE VI GASOLINE-TIER2 UNLEADED * * PORATIVE AMILY GASOLINE-TIER2 UNLEADED * XR0102815 GASOLINE-TIER2 UNLEADED * * * * * * * * * * PORATIVE FUEL ONLY & PORATIVE FUEL TYPE	HCHO=formaldehud HC/mi]=running loss Fahrenheit; FTP=feie MMOG+NOX (CERT @ UL GASOLINE-TIER2 UNLEADED 0.061 (C) @ 10 GASOLINE-TIER2 UNLEADED 0.061 (C) @ 4K * * * WHOLE VENICE (g/mi) SFTP E) US FUEL TYPE NMHC+NOX (g/mi) CO (c) FUEL TYPE NMHC+NOX (g/mi) CO (c) GASOLINE-TIER2 UNLEADED 0.0275 0.14 0.45 GASOLINE-TIER2 UNLEADED 0.0275 0.14 0.45 GASOLINE-TIER2 UNLEADED * * * PORATIVE AMILY FUEL TYPE 3-DAN SO CERT YEAR FUEL TYPE 3-DAN SO SO FUEL TYPE 3-DAN SO SO CERT PORATIVE AMILY GASOLINE-TIER2 UNLEADED 0.3460 * * * * * * * * * * * * * * * * * * * *<	FUEL TYPE HCHO=formaldehyde: PM=par HC/mi]=running loss; ORVR [g Fahrenheit; FTP=federal test p NMOG+NOX (g/mi) © 50K *	HCHO-Formaidehyde: PM=particulate math HC/mi]=running loss; ORVR [g HC/gallon d Fuerinheit; FTP=federal test procedure; S <u>NMOG+NOx (g/mi)</u> © 50K *	HCHO=formaldehyde: PM=particulate matter, RAF=re HC/mi]=runing loss; ORVR [g HC/gallon dispensed]= Fahrenheit; FTP=federal test procedure; SFTP=supel]= NMOG+NOX (g/mi) CC (g/mi) g 50K * <	HCHO-formalidehyde, PM-particulate matter, RAF-reactivity adjustmental FT HCHO-formalidehyde, PM-particulate matter, RAF-reactivity adjustmental FT NMOG+NOX (g/mi) CCO (g/mi) CERT STD CERT STD @ UL GASOLINE-TIER2 0.061 0.110 0.52 2.1 @ 50K GASOLINE-TIER2 0.061 0.110 0.52 2.1 @ 50K GASOLINE-TIER2 0.061 0.110 0.52 2.1 @ 50K GASOLINE-TIER2 0.061 0.110 0.52 2.1 @ 4K * * * * * FUEL TYPE ISTP EXHAUST EMISSION STANDARDS AN FUEL TYPE US06 FUEL TYPE ISTP CERT STD CERT STD CERT STD CERT GASOLINE-TIER2 UNICADED WHOLE VEHICLE EVAPORATIVE OCRATIVE SOAK (g/test)@ UL SOAK	HCHO-formaldehyde, PM-particulate matter, RAF=reactive adjustment factors FUEL TYPE HCHO-formaldehyde, PM-particulate matter, RAF=reactive with adjustment factors FUEL TYPE HCHO-formaldehyde, PM-particulate matter, RAF=reactive with adjustment factors OLIGENT STD CERT STD CERT © UL GASOLINE-TIER2 0.061 0.110 0.52 2.1 * © S0K * * * * © S0K GASOLINE-TIER2 0.061 0.110 0.052 2.1 * WUL GASOLINE-COLD CO * * * * * * * * * * * * * * * * * * * <th colspan<="" td=""><td>FUEL TYPE HCHO-formaldelyde, PM-particulaie matter, RAF-reactivity adjustment factor, 2DHS/35 FUEL TYPE HCHO-formaldelyde, PM-particulaie matter, RAF-reactivity adjustment factor, 2DHS/35 MCMO-FORK (g/mi) HCHO (mg/mi) GOK * <th colspan<="" td=""><td>Heldo-formaldehyde: PM-particulate matter; 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New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4

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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,3751-8500#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; 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/PI\$=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% Tier2 unleaded gasoline; A=automatic transmission; M=manual transmission; AMS=automated manual transmission; AMS=automated manual transmission; AMS=automated manual transmission; AMS=autom

2017 MODEL YEAR: VEHICLE MODELS INFORMATION

МАКЕ	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH	OBD	PZEV TYPE
CHEVROLET	MALIBU	PC	1.8	CV	HGMXR0102815	1	F	*