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 GROUP INFORMATION

MODEL YEAR	TEST GROUP	VEHICLE CLASS(ES)	FUEL CATEGORY	FUEL TYPE
2017	HGMXT05.3384	LDT3, LDT4	DEDICATED SINGLE FUEL VEHICLE	GASOLINE

USEFUL LIFE (miles)		VEHICLE EMISSION CATEGORY		INTERIM / INTERMEDIATE IN-USE STD	
EXH/ORVR	EVAP	FTP	SFTP	FTP	SFTP
150000	150000	LEV3 ULEV125	LEV 3 COMPOSITE	PM	NMOG+NOX AND PM

SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS		OBD STATUS		ENGINE DISPLACEMENT (L)
1	2TWC, TWC, 2HO2S(2), DFI	FULL	*	5.3
*	*	PARTIAL	ALL MODELS	
*	*	PARTIAL WITH FINES	*	

EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION

EVAP / ORVR FAMILY	EVAPORATIVE STD CATEGORY	EVAP EMISSION STD VEHICLE CLASS	SPECIAL FEATURES
HGMXR016150A	LEV 3 OPTION2	LDT3	HCT
HGMXR021250B	LEV 3 OPTION2 WITH FEL	LDT4	HCT
HGMXR0223840	LEV 2	LDT4	*

EMISSION CREDIT INFORMATION

ALLOWANCE FOR TEST GROUP			NMOG CREDIT FOR NON-PZEV ZERO-EVAP	NMOG CREDIT FOR DOR	OPTIONAL EXH. STD FOR WORK TRUCKS
BASELINE PZEV	AT PZEV	TZEV			
*	*	*	N	N	N

NMOG AND FLEET AVERAGE INFORMATION

NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO	NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)	NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)	NMOG+NOX FLEET STD MDV (10001-14000 GVWR) (g/mi)
*	*	1.10	*	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 and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

SUPERSEDED

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 13 day of June 2016.

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

SUPERSEDED

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

	FUEL TYPE	NMOG+NOx (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	EPA TIER 3 REG	0.031	0.125	0.5	2.1	*	*	*	4	0.002	0.003
50°F @4K	*	*	*	*	*	*	*	*	*		

	FUEL TYPE	NMOG+NOx (g/mi)		CO (g/mi)	
		CERT	STD	CERT	STD
HWFET @ 50K	*	*	*		
HWFET @ UL	EPA TIER 3 REG	0.004	0.125		
20°F @ 50K	GASOLINE-COLD CO LOW OCTANE			1.4	12.5

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

	FUEL TYPE		US06			SC03		COMPOSITE		
			NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
		STD	*	*		*	*			
@ UL	EPA TIER 3 REG	CERT	*	*	1	*	*	0.027	0.4	*
		STD	*	*	10	*	*	0.103	4.2	*
		BIN						0.120		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	FUEL TYPE	WHOLE VEHICLE EVAPORATIVE TESTING						RL (g/mi) @ UL	
		3DHS (g/test) @ UL			2DHS (g/test) @ UL				
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
HGMXR016150A	EPA TIER 3 REG	0.383	0.500	*	0.376	0.500	*	0.00	0.05
HGMXR021250B	EPA TIER 3 REG	0.470	0.500	0.525	0.354	0.500	0.525	0.00	0.05
HGMXR0223840	GASOLINE - TIER 2 UNLEADED	0.71	0.90	*	0.65	1.15	*	0.00	0.05

SUPERSEDED

ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL ONLY EVAP & CANISTER BLEED						
				FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K	
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD
HGMXR016150A	E10-EPA	0.01	0.20	EPA TIER 3 REG	*	*	*	*	0.007	0.020
HGMXR021250B	E10-EPA	0.03	0.20	EPA TIER 3 REG	*	*	*	*	0.010	0.020
HGMXR0223840	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: 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; 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/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

SUPERSEDED

2017 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	5.3	A6	HGMXR016150A	1	P	*
CHEVROLET	C15 SILVERADO 2WD	LDT3	5.3	A8	HGMXR016150A	1	P	*
CHEVROLET	C15 SILVERADO 2WD	LDT4	5.3	A6	HGMXR021250B	1	P	*
CHEVROLET	C15 SILVERADO 2WD CAB CHASSIS	LDT4	5.3	A6	HGMXR0223840	1	P	*
CHEVROLET	C1500 SUBURBAN 2WD	LDT4	5.3	A6	HGMXR021250B	1	P	*
CHEVROLET	C1500 TAHOE 2WD	LDT3	5.3	A6	HGMXR016150A	1	P	*
CHEVROLET	K15 SILVERADO 4WD	LDT3	5.3	A6	HGMXR016150A	1	P	*
CHEVROLET	K15 SILVERADO 4WD	LDT3	5.3	A8	HGMXR016150A	1	P	*
CHEVROLET	K15 SILVERADO 4WD	LDT4	5.3	A6	HGMXR021250B	1	P	*
CHEVROLET	K15 SILVERADO 4WD CAB CHASSIS	LDT4	5.3	A6	HGMXR0223840	1	P	*
CHEVROLET	K1500 SUBURBAN 4WD	LDT4	5.3	A6	HGMXR021250B	1	P	*
CHEVROLET	K1500 TAHOE 4WD	LDT3	5.3	A6	HGMXR016150A	1	P	*
GMC	C15 SIERRA 2WD	LDT3	5.3	A6	HGMXR016150A	1	P	*
GMC	C15 SIERRA 2WD	LDT3	5.3	A8	HGMXR016150A	1	P	*
GMC	C15 SIERRA 2WD	LDT4	5.3	A6	HGMXR021250B	1	P	*
GMC	C15 SIERRA 2WD CAB CHASSIS	LDT4	5.3	A6	HGMXR0223840	1	P	*
GMC	C1500 YUKON 2WD	LDT3	5.3	A6	HGMXR016150A	1	P	*
GMC	C1500 YUKON XL 2WD	LDT4	5.3	A6	HGMXR021250B	1	P	*
GMC	K15 SIERRA 4WD	LDT3	5.3	A6	HGMXR016150A	1	P	*
GMC	K15 SIERRA 4WD	LDT3	5.3	A8	HGMXR016150A	1	P	*
GMC	K15 SIERRA 4WD	LDT4	5.3	A6	HGMXR021250B	1	P	*
GMC	K15 SIERRA 4WD CAB CHASSIS	LDT4	5.3	A6	HGMXR0223840	1	P	*
GMC	K1500 YUKON 4WD	LDT3	5.3	A6	HGMXR016150A	1	P	*
GMC	K1500 YUKON XL 4WD	LDT4	5.3	A6	HGMXR021250B	1	P	*

SUPERSEDED