California Environmental Protection Agency AIR RESOURCES BOARD	GENERAL MOTORS CORPORATION	EXECUTIVE ORDER A-006-1232 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515-39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That 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.

MODEL YEAR	TEST GROUP	VEHICLE TYPE (PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; LVW=loaded vehicle weight; GVW=gross VW)	EXHAUST EMISSION STANDARD CATEGORY (LEV=low emission vehicle; TLEV= transitional LEV; ULEV=ultra LEV; SULEV=super ULEV)	EXHAUST (EXH) / EVAPORATIVE USEFUL LIFE (UL) (miles)	FUEL TYPE (CNG/LNG=compressed/ liquefied natural gas; LPG=liquefied petroleum gas)
2005	5GMXT05.3178	MDV: 3751 - 5750 Pounds ALVW	USEPA Bin 8a Counted as ARB SULEV	EXH/ORVR: 120K EVAF: 150K	Gasoline plus Battery-Assist

No.	EVAPORATIVE FAMILY (EVAF)	No.	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS (ECS)	* = not applicable
1	5GMXR0176820	1	2TWC, 2HO2S(2), SFI, OBD (F)	
2	*	2	*	
3	*	3	*	
4	*	4	*	

OC/TWC=oxidizing/3-way cat. ADSTWC=adsorbing TWC WU= warm-up cat. O2S/HO2S=oxygen sensor/heated O2S AFS/HAFS=air-fuel ratio sensor/heated AFS EGR=exhaust gas recirculation AIR/PAIR=secondary air injection/pulsed AIR MFI/SFI= multiport fuel injection/sequential MFI TBI= throttle body injection TC/SC=turbo /super charger CAC=charge air cooler OBD (F) / (P)=full /partial on-board diagnostic prefix 2=parallel (2) suffix=series

EVAF No.	ECS No.	ENGINE SIZE (L)	VEHICLE MAKES & MODELS	VEHICLES SUBJECT TO SFTP STANDARDS ARE UNDERLINED	ABBREVIATIONS:
1	1	5.3	Chevrolet: C15 Silverado Hybrid 2WD, K15 Silverado Hybrid 4WD		
1	1	5.3	GMC: C15 Sierra Hybrid 2WD, K15 Sierra Hybrid 4WD		
*	*	*	*		
*	*	*	*		
*	*	*	*		

The exhaust and evaporative emission standards (STD), as requested by the manufacturer, and certification emission levels (CERT) for the listed vehicles are as follows (compliance with the 50 °F testing requirement (for TLEV, LEV, ULEV, SULEV) may have been met based on the manufacturer's submitted compliance plan in lieu of testing). Any debit in the manufacturer's "NMOG Fleet Average" (PC and LDT) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required. (For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

CH4=methane NMOG=non-CH4 organic gas NMHC=non-CH4 hydrocarbon CO=carbon monoxide NOx=oxides of nitrogen HCHO=formaldehyde PM=particulate matter RAF=reactivity adjustment factor 2/3 D [g/test]=2/3 day diurnal+hot-soak RL [g/mi]=running loss ORVR [g/gallon dispensed]=on-board refueling vapor recovery g=gram mg=milligram mi=mile K=1000 miles F=degrees Fahrenheit SFTP=supplemental federal test procedure

NMOG FLEET AVERAGE [g/mi] CERT	NMOG FLEET AVERAGE [g/mi] STD		NMOG @ RAF=* CH4 RAF = * NMOG CERT [g/mi]	NMOG @ RAF=* CH4 RAF = * NMHC CERT [g/mi]	NMOG or NMHC STD [g/mi]	CO [g/mi] CERT	CO [g/mi] STD	NOx [g/mi] CERT	NOx [g/mi] STD	HCHO [mg/mi] CERT	HCHO [mg/mi] STD	PM [g/mi] CERT	PM [g/mi] STD	Hwy NOx [g/mi] CERT	Hwy NOx [g/mi] STD
*	*														
[redacted]		@ 50K	0.055	*	0.125	1.0	3.4	0.09	0.14	*	15	*	*	0.03	0.19
[redacted]		@ UL	0.066	*	0.156	1.3	4.2	0.12	0.20	*	18	*	*	0.07	0.27
[redacted]		@ 50°F & 4K	*	*	*	*	*	*	*	*	*	*	*	*	*

CO [g/mi] @ 20°F & 50K		SFTP 1 = @ 4K (SULEV, ULEV, LEV) or 50K (Tier 1, TLEV) SFTP 2 = @ UL (Tier 1, TLEV)	NMHC+NOx [g/mi] (composite) CERT	NMHC+NOx [g/mi] (composite) STD	CO [g/mi] (composite) CERT	CO [g/mi] (composite) STD	NMHC+NOx [g/mi] [US06] CERT	NMHC+NOx [g/mi] [US06] STD	CO [g/mi] [US06] CERT	CO [g/mi] [US06] STD	NMHC+NOx [g/mi] [SC03] CERT	NMHC+NOx [g/mi] [SC03] STD	CO [g/mi] [SC03] CERT	CO [g/mi] [SC03] STD
CERT	3.6	[redacted] SFTP @ 4K	*	*	*	*	0.1	0.4	1.8	10.5	0.04	0.31	0.4	3.5
STD	12.5	[redacted] SFTP @ UL	0.15	1.06	*	*	*	*	2.2	16.9	*	*	0.9	5.6

@ UL	EVAPORATIVE FAMILY 1 3-D	EVAPORATIVE FAMILY 1 2-D	EVAPORATIVE FAMILY 1 RL	EVAPORATIVE FAMILY 1 ORVR	EVAPORATIVE FAMILY 2 3-D	EVAPORATIVE FAMILY 2 2-D	EVAPORATIVE FAMILY 2 RL	EVAPORATIVE FAMILY 2 ORVR	EVAPORATIVE FAMILY 3 3-D	EVAPORATIVE FAMILY 3 2-D	EVAPORATIVE FAMILY 3 RL	EVAPORATIVE FAMILY 3 ORVR	EVAPORATIVE FAMILY 4 3-D	EVAPORATIVE FAMILY 4 2-D	EVAPORATIVE FAMILY 4 RL	EVAPORATIVE FAMILY 4 ORVR
CERT	0.61	0.67	0.00	0.14	*	*	*	*	*	*	*	*	*	*	*	*
STD	0.90	1.15	0.05	0.20	*	*	*	*	*	*	*	*	*	*	*	*

BE IT FURTHER RESOLVED: That 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 Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model PC, LDT and MDV).

BE IT FURTHER RESOLVED: That the listed vehicle models are federally certified, and are certified under the provisions of 13 CCR Section 1961(a)(14) 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 28TH day of June 2004.

Allen Lyons, Chief
Mobile Source Operations Division