California Environmental Protection Agency AIR RESOURCES BOARD	GENERAL MOTORS CORPORATION	EXECUTIVE ORDER A-006-1154-1 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; ALVW=adjusted LVW)	EXHAUST EMISSION STANDARD CATEGORY (LEV=low emission vehicle; TLEV= transitional LEV; ULEV=ultra LEV; SULEV=super ULEV)	EXHAUST / EVAPORATIVE USEFUL LIFE (UL) (miles)	FUEL TYPE (CNG/LNG=compressed/ liquefied natural gas; LPG= liquefied petroleum gas)
2004	4GMXT06.0188	MDV: 5,751-8,500 pounds ALVW	LEV	120K / 120K (EVAF 3), 150K (EVAF 1, 2, 4)	Gasoline (Tier 2 Unleaded)

No.	EVAPORATIVE FAMILY (EVAF)	No.	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS (ECS)
1	4GMXR0176821	1	SFI, 2WUTWC, 2TWC, 2HO2S(2), OBD (F)
2	4GMXR0223841	2	*
3	4GMXE0260936	3	*
4	4GMXE0223842	4	*

* = not applicable

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)
1	1	6.0	Chevrolet: C1500 Silverado 2WD, K1500 Silverado 4WD, C2500 HD Silverado 2WD, K2500 HD Silverado 4WD; GMC: C1500 Sierra 2WD, K1500 Sierra 4WD, C2500 HD Sierra 2WD, K2500 HD Sierra 4WD
2	1	6.0	Chevrolet: C2500 HD Silverado 2WD, K2500 HD Silverado 4WD, K3500 Silverado 4WD; GMC: C2500 HD Sierra 2WD, K2500 HD Sierra 4WD, K3500 Sierra 4WD
3	1	6.0	Chevrolet: C2500 Suburban 2WD, K2500 Suburban 4WD; GMC: C2500 Yukon XL 2WD, K2500 Yukon XL 4WD
4	1	6.0	Chevrolet: C3500 Silverado 2WD, K3500 Silverado 4WD; GMC: C3500 Sierra 2WD, K3500 Sierra 4WD

ABBREVIATIONS: *

The exhaust and evaporative emission standards (STD) 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.)

NMOG FLEET AVERAGE [g/mi]		NMOG @ RAF=* CH4 RAF = *		NMOG or NMHC STD [g/mi]	CO [g/mi]		NOx [g/mi]		HCHO [mg/mi]		PM [g/mi]		Hwy NOx [g/mi]	
CERT	STD	NMOG CERT [g/mi]	NMHC CERT [g/mi]		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
*	*													
	@ 50K	0.103	*	0.195	2.8	5.0	0.2	0.6	*	22	*	*	0.2	1.2
	@ UL	0.103	*	0.280	2.8	7.3	0.2	0.9	*	32	*	*	0.2	1.8
	@ 50°F & 4K	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)		CO [g/mi] (composite)		NMHC+NOx [g/mi] [US06]		CO [g/mi] [US06]		NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]	
			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
CERT	*	SFTP @4K	*	*	*	*	*	*	*	*	*	*	*	*
STD	*	SFTP @UL	*	*	*	*	*	*	*	*	*	*	*	*

@ UL	EVAPORATIVE FAMILY 1				EVAPORATIVE FAMILY 2				EVAPORATIVE FAMILY 3				EVAPORATIVE FAMILY 4			
	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVR
CERT	0.61	0.67	0.00	0.14	0.41	0.54	0.00	0.09	0.4	0.3	0.00	*	0.41	0.54	0.00	*
STD	1.00	1.25	0.05	0.20	1.00	1.25	0.05	0.20	3.0	3.5	0.05	*	1.00	1.25	0.05	*

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).

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.
This Executive Order hereby supersedes Executive Order A-006-1154 dated March 18, 2003.

Executed at El Monte, California on this 3RD day of September 2003.

Allen Lyons, Chief
Mobile Source Operations Division