California Environmental Protection Agency AIR RESOURCES BOARD	GENERAL MOTORS CORPORATION	EXECUTIVE ORDER A-006-1153 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	EXHAUST EMISSION STANDARD CATEGORY	USEFUL LIFE (miles)		INTERMEDIATE IN-USE COMPLIANCE (*=N/A or full in-use; A/E=exh. / evap. intermediate in-use)		FUEL TYPE
				EXH / ORVR	EVAP	EXH	EVAP	
2004	4GMXT06.0187	3751-5750 Pounds Adjusted Loaded Vehicle Weight Medium-Duty Vehicle	USEPA Bin 8 Counted as ARB Super Ultra Low Emission Vehicle	120K	150K	*	E	GASOLINE (Tier 2 Unleaded)

No.	ECS & SPECIAL FEATURES	EVAPORATIVE FAMILY (EVAF)	DISPLACEMENT (L)
1	2TWC, 2HO2S(2), SFI, OBD(F)	4GMXR0176820	5.3, 6
*	*	4GMXR0223840	
*	*	*	
*	*	*	

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:
That the exhaust and the 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 Fleet Average" (PC or LDT) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

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], 1968.1 [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:
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 10th day of March 2003.

Allen Lyons, Chief
Mobile Source Operations Division

SUPERSEDED

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.)

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	0.077	*	0.125	1.9	3.4	0.04	0.14	*	15.	*	*	0.03	0.19
	@ UL	0.087	*	0.156	2.2	4.2	0.08	0.20	*	18.	*	*	0.07	0.27
	@ 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			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	4.6	SFTP @ 4000 miles	*	*	*	*	0.03	0.4	1.7	10.5	0.06	0.31	1.3	3.5
STD	12.5	SFTP @ 120000 miles	0.13	1.06	*	*	*	*	2.2	16.9	*	*	1.8	5.6

Evaporative Family	3-Days Diurnal + Hot Soak (grams/test) @ UL		2-Days Diurnal + Hot Soak (grams/test) @ UL		Running Loss (grams/mile) @ UL		On-Board Refueling Vapor Recovery (grams/gallon) @ UL	
	CERT	STD	CERT	STD	CERT	STD	CERT	STD
4GMXR0176820	0.61	0.90	0.67	1.15	0.00	0.05	0.14	0.20
4GMXR0223840	0.41	0.90	0.54	1.15	0.00	0.05	0.09	0.20
*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*

* = not applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; ECS= Emission Control System; STD= Standard; CERT= Certification; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; TLEV=transitional LEV; ULEV=ultra LEV; SULEV=super ULEV; TWC=3-way catalyst; ADSTWC=adsorbing TWC; WU=warm-up catalyst; OC=oxidizing catalyst; O2S=oxygen sensor; HO2S=heated O2S; AFS/HAFS=air- fuel ratio sensor / heated AFS; EGR=exhaust gas recirculation; AIR=secondary air injection; PAIR=pulsed AIR; MFI= multiport fuel injection; SFI=sequential MFI; TBI=throttle body injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)=full/partial on-board diagnostic; DOR=direct ozone reducing; prefix 2=parallel; (2) suffix=series; CNG/LNG= compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol Fuel

2004 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	INTERMEDIATE IN-USE COMPLIANCE (*=N/A or full in-use; A/E=exh. / evap. intermediate in-use)		PHASE-IN STD.	OBD II
					EXH	EVAP		
CHEVROLET	C1500 TAHOE 2WD	4GMXR0176820	1	5.3	*	E	SFTP	Full
CHEVROLET	K1500 TAHOE 4WD	4GMXR0176820	1	5.3	*	E	SFTP	Full
CHEVROLET	K1500 TAHOE AWD	4GMXR0176820	1	5.3	*	E	SFTP	Full
CHEVROLET	C1500 SILVERADO 2WD	4GMXR0176820	1	5.3	*	E	SFTP	Full
CHEVROLET	K1500 SILVERADO 4WD	4GMXR0176820	1	5.3	*	E	SFTP	Full
CHEVROLET	K1500 SILVERADO AWD	4GMXR0176820	1	5.3	*	E	SFTP	Full
GMC	C1500 YUKON 2WD	4GMXR0176820	1	5.3	*	E	SFTP	Full
GMC	K1500 YUKON 4WD	4GMXR0176820	1	5.3	*	E	SFTP	Full
GMC	K1500 YUKON AWD	4GMXR0176820	1	5.3	*	E	SFTP	Full
GMC	C1500 SIERRA 2WD	4GMXR0176820	1	5.3	*	E	SFTP	Full
GMC	K1500 SIERRA 4WD	4GMXR0176820	1	5.3	*	E	SFTP	Full
GMC	K1500 SIERRA AWD	4GMXR0176820	1	5.3	*	E	SFTP	Full
CADILLAC[2]	ESCALADE 2WD	4GMXR0176820	1	5.3	*	E	SFTP	Full
CHEVROLET	C1500 SUBURBAN 2WD	4GMXR0223840	1	5.3	*	E	SFTP	Full
CHEVROLET	K1500 SUBURBAN 4WD	4GMXR0223840	1	5.3	*	E	SFTP	Full
CHEVROLET	K1500 SUBURBAN AWD	4GMXR0223840	1	5.3	*	E	SFTP	Full

SUPERSEDED

CHEVROLET	C1500 AVALANCHE 2WD	4GMXR0223840	1	5.3	*	E	SFTP	Full
CHEVROLET	K1500 AVALANCHE 4WD	4GMXR0223840	1	5.3	*	E	SFTP	Full
CHEVROLET	K1500 AVALANCHE AWD	4GMXR0223840	1	5.3	*	E	SFTP	Full
CHEVROLET	C1500 SILVERADO 2WD	4GMXR0223840	1	5.3	*	E	SFTP	Full
CHEVROLET	K1500 SILVERADO 4WD	4GMXR0223840	1	5.3	*	E	SFTP	Full
GMC	C1500 YUKON XL 2WD	4GMXR0223840	1	5.3	*	E	SFTP	Full
GMC	K1500 YUKON XL 4WD	4GMXR0223840	1	5.3	*	E	SFTP	Full
GMC	K1500 YUKON XL AWD	4GMXR0223840	1	5.3	*	E	SFTP	Full
GMC	C1500 SIERRA 2WD	4GMXR0223840	1	5.3	*	E	SFTP	Full
GMC	K1500 SIERRA 4WD	4GMXR0223840	1	5.3	*	E	SFTP	Full
GMC	K1500 YUKON AWD	4GMXR0176820	1	6	*	E	SFTP	Full
GMC	K1500 SIERRA AWD	4GMXR0176820	1	6	*	E	SFTP	Full
CHEVROLET	K1500 SILVERADO AWD	4GMXR0176820	1	6	*	E	SFTP	Full
CADILLAC	ESCALADE AWD	4GMXR0176820	1	6	*	E	SFTP	Full
CADILLAC	ESCALADE EXT AWD	4GMXR0223840	1	6	*	E	SFTP	Full
CADILLAC	ESCALADE ESV AWD	4GMXR0223840	1	6	*	E	SFTP	Full
GMC	K1500 YUKON XL AWD	4GMXR0223840	1	6	*	E	SFTP	Full

SUPERSEDED