

S. Chen

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 | 4GMXT05.3174 | 5751-8500 Pounds Adjusted Loaded Vehicle Weight Medium-Duty Vehicle | USEPA Bin 10 Counted as ARB 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 | | 4.8, 5.3 | | | |
| * | * | | 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 50th 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.

This Executive Order hereby supersedes Executive Order a-006-1149 dated 3/10/2003.

Executed at El Monte, California on this 19th day of March 2003.


 Allen Lyons, Chief
 Mobile Source Operations Division



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] | 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 | | | | | | | | | |
|---------------------------|-------------|-----------------------------|------------------------|----------------------------------|--|-----|------------|-----|--------------|-----|-----------|-----|----------------|------|
| CERT | STD | NMOG CERT [g/mi] | NMHC CERT [g/mi] | | CO [g/mi] | | NOx [g/mi] | | HCHO [mg/mi] | | PM [g/mi] | | Hwy NOx [g/mi] | |
| * | * | | | | CERT | STD | CERT | STD | CERT | STD | CERT | STD | CERT | STD |
| | @ 50K | 0.099 | * | 0.195 | 1.4 | 4.4 | 0.1 | 0.4 | * | 18. | * | * | 0.12 | 0.53 |
| | @ UL | 0.112 | * | 0.280 | 1.8 | 6.4 | 0.2 | 0.6 | * | 27. | * | * | 0.23 | 0.80 |
| | @ 50°F & 4K | * | * | * | * | * | * | * | * | * | * | * | * | * |

| CO [g/mi] @ 20°F & 50K | SFTP @ 4000 miles | SFTP @ 12000 miles | 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 | 3.9 | | * | * | * | * | 0.1 | 0.6 | 4.0 | 11.8 | 0.14 | 0.44 | 1.3 | 4.0 |
| STD | 12.5 | | 0.34 | 1.67 | * | * | * | * | 4.8 | 19.3 | * | * | 2.1 | 6.4 |

| 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 SILVERADO 2WD | 4GMXR0176820 | 1 | 4.8 | * | E | SFTP | Full |
| CHEVROLET | C1500 TAHOE 2WD | 4GMXR0176820 | 1 | 4.8 | * | E | SFTP | Full |
| CHEVROLET | G1500/2500 CHEVY EXPRESS 2WD | 4GMXR0223840 | 1 | 5.3 | * | E | SFTP | Full |
| CHEVROLET | G1500/2500 CHEVY VAN 2WD | 4GMXR0223840 | 1 | 5.3 | * | E | SFTP | Full |
| CHEVROLET | G15/25 CHEVY VAN 2WD CONV | 4GMXR0223840 | 1 | 5.3 | * | E | SFTP | Full |
| CHEVROLET | H1500 CHEVY EXPRESS AWD | 4GMXR0223840 | 1 | 5.3 | * | E | SFTP | Full |
| CHEVROLET | H1500/2500 CHEVY VAN AWD | 4GMXR0223840 | 1 | 5.3 | * | E | SFTP | Full |
| CHEVROLET | H1500 CHEVY VAN AWD CONV | 4GMXR0223840 | 1 | 5.3 | * | E | SFTP | Full |
| CHEVROLET | K1500 SILVERADO 4WD | 4GMXR0223840 | 1 | 4.8 | * | E | SFTP | Full |
| CHEVROLET | K1500 SILVERADO 4WD | 4GMXR0176820 | 1 | 4.8 | * | E | SFTP | Full |
| CHEVROLET | K1500 TAHOE 4WD | 4GMXR0176820 | 1 | 4.8 | * | E | SFTP | Full |
| GMC | C1500 SIERRA 2WD | 4GMXR0176820 | 1 | 4.8 | * | E | SFTP | Full |
| GMC | C1500 YUKON 2WD | 4GMXR0176820 | 1 | 4.8 | * | E | SFTP | Full |
| GMC | G1500/2500 SAVANA CARGO 2WD | 4GMXR0223840 | 1 | 5.3 | * | E | SFTP | Full |
| GMC | G1500/2500 SAVANA PASSENGER 2WD | 4GMXR0223840 | 1 | 5.3 | * | E | SFTP | Full |
| GMC | G15/25 SAVANA 2WD CARGO CONV | 4GMXR0223840 | 1 | 5.3 | * | E | SFTP | Full |



California Environmental Protection Agency

AIR RESOURCES BOARD

GENERAL MOTORS CORPORATION

EXECUTIVE ORDER A-006-1149-1

**New Passenger Cars, Light-Duty Trucks
and Medium-Duty Vehicles**

| | | | | | | | | |
|-----|------------------------------|--------------|---|-----|---|---|------|------|
| GMC | H1500 SAVANA PASS VAN AWD | 4GMXR0223840 | 1 | 5.3 | * | E | SFTP | Full |
| GMC | H1500/2500 SAVANA CARGO AWD | 4GMXR0223840 | 1 | 5.3 | * | E | SFTP | Full |
| GMC | H15/25 SAVANA AWD CARGO CONV | 4GMXR0223840 | 1 | 5.3 | * | E | SFTP | Full |
| GMC | K1500 SIERRA 4WD | 4GMXR0176820 | 1 | 4.8 | * | E | SFTP | Full |
| GMC | K1500 SIERRA 4WD | 4GMXR0223840 | 1 | 4.8 | * | E | SFTP | Full |
| GMC | K1500 YUKON 4WD | 4GMXR0176820 | 1 | 4.8 | * | E | SFTP | Full |