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State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-1056
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below:

Model Year: 2002

Vehicle Type: 5751-8500 Pound Adjusted Loaded Vehicle Weight Medium-Duty Vehicle

Exhaust Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Test Group: 2GMXA08.1201

Engine Displacement: 8.1 Liters

Evaporative Family (Evap): 1: 2GMXE0111909
2: 2GMXE0133917
3: 2GMXE0111917

Special Features and Exhaust Emission Control Systems:

Sequential Multiport Fuel Injection
Dual Warm Up Three Way Catalytic Converters
Dual Three Way Catalytic Converters
Dual Heated Oxygen Sensors (two)
Exhaust Gas Recirculation

Models Covered:
Evap 1: Chevrolet G3500 Express 2WD, G3500 Van 2WD; GMC G3500 Savana 2WD Passenger, G3500 Savana 2WD Cargo
Evap 2: Chevrolet C2500 HD Silverado 2WD, K2500 HD Silverado 4WD, C2500 Avalanche 2WD, K2500 Avalanche 4WD, C2500 Suburban 2WD, K2500 Suburban 4WD; GMC C2500 HD Sierra 2WD, C2500 Yukon XL 2WD, K2500 HD Sierra 4WD, K2500 Yukon XL 4WD
Evap 3: Chevrolet C2500 HD Silverado 2WD, K2500 HD Silverado 4WD; GMC C2500 HD Sierra 2WD, K2500 HD Sierra 4WD

The exhaust certification emission levels and standards, in grams per mile, of non-methane organic gases (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) for the listed vehicle models are as follows. The NMOG exhaust certification emission levels include application of the reactivity adjustment factor (RAF) as specified.

The evaporative hydrocarbon (HC) certification emission levels and standards for three-day diurnal plus hot soak (3D) and two-day diurnal plus hot soak (2D) in grams per test, running loss (RL) in grams per mile, and onboard refueling vapor recovery (ORVR) in grams per gallon of fuel dispensed, for the listed vehicle models are as follows.

| Type of Emissions | Miles | Certification Level | Certification Standards |
|---|---|---|---|
| EXHAUST @ NMOG RAF = 0.94 | | | |
| NMOG | 50,000 | 0.133 | 0.195 |
| NMOG | 120,000 | 0.133 | 0.280 |
| CO | 50,000 | 2.9 | 5.0 |
| CO | 120,000 | 2.9 | 7.3 |
| NOx | 50,000 | 0.2 | 0.6 |
| NOx | 120,000 | 0.2 | 0.9 |
| NOx (highway) | 50,000 | 0.1 | 1.2 |
| NOx (highway) | 120,000 | 0.1 | 1.8 |
| HCHO | 50,000 | 0.002 | 0.022 |
| ..... HCHO | 120,000 | 0.002 | 0.032 |
| ..... CO (20$^0$F) | 50,000 | n/a | n/a |
| NMOG (50$^0$F) | 4,000 | n/a | 0.390 |
| CO (50$^0$F) | 4,000 | n/a | 5.0 |
| NOx (50$^0$F) | 4,000 | n/a | 0.6 |
| HCHO (50$^0$F) | 4,000 | n/a | 0.044 |

| EVAPORATIVE | | Evap 1 | Evap 2 | Evap 3 | Evap 1, 2 & 3 |
|---|---|---|---|---|---|
| HC-2D | 120,000 | 2.0 | 1.7 | 1.4 | 3.5 |
| HC-3D | 120,000 | 2.0 | 1.6 | 1.3 | 3.0 |
| HC-RL | 120,000 | 0.00 | 0.00 | 0.00 | 0.05 |
| HC-ORVR | 120,000 | n/a | n/a | n/a | n/a |

BE IT FURTHER RESOLVED: That any "Vehicle Equivalent Debit" in the manufacturer's medium-duty vehicle phase-in compliance plan shall be equalized as required by the "California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the 50$^0$ Fahrenheit testing requirement for the listed vehicle models has been met based on the compliance plan submitted by the manufacturer in lieu of actual testing.

BE IT FURTHER RESOLVED: That the listed vehicle models are conditionally certified to the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1). This certification is contingent upon the manufacturer providing the on-board diagnostic demonstration data required by Title 13, California Code of Regulations, Section 1968.1(g) by February 15, 2001. Failure to submit the required demonstration data by the specified date, or failure of the submitted demonstration data to show compliance with the test procedures, shall be cause for the Air Resources Board to revoke this Executive Order and vehicles sold under the revoked conditional certification shall be deemed uncertified.

BE IT FURTHER RESOLVED: That for the listed vehicle models, the manufacturer has attested to compliance with the following California emission regulations and requirements. Vehicles certified under this Executive Order shall conform to all applicable California emission regulations and requirements.

- Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks (Title 13, California Code of Regulations, Section 2235)

- Motor Vehicle Emission Control and Smog Index Label Specifications (Title 13, California Code of Regulations, Section 1965)

- Emission Control System Warranty (Title 13, California Code of Regulations, Sections 2035 et seq.)

- High-Altitude Requirements and California Inspection and Maintenance Emission Standards (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles)

The Bureau of Automotive Repair will be notified by copy of this order.

Executed at El Monte, California this 31st day of January 2001.

R. B. Summerfield, Chief
Mobile Source Operations Division