State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-636
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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1994 model-year General Motors Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: R3G3.828G2EA Displacement: 3.8 Liters (231 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation
Three Way Catalytic Converter
Heated Oxygen Sensor
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The TLEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight(lbs.)	Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde
3751-5750	50,000	0.160	4.4	0.7	0.018
	100,000	0.200	5.5	0.9	0.023

BE IT FURTHER RESOLVED: That on January 14, 1993, the Air Resources Board approved the adoption of a reactivity adjustment factor (RAF) of 0.98 for 1993 through 1997 model-year TLEVs operated on gasoline meeting the specifications of section 9.a.1.(ii) of the "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles." A 0.98 RAF shall be conditionally applied to the listed engine family for all purposes related to the engine family, based on the assumption that the adoption of the 0.98 RAF will become effective by December 31, 1993. If the adoption of the 0.98 RAF does not become effective by December 31, 1993, the RAF of the listed vehicle models shall be deemed to be 1.000 for all purposes relating to this engine family.

Reactivity Adjustment Factor for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.98 RAF for 1994 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle Weight(lbs.)	Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde
3751-5750	50,000	0.095	1.2	0.3	0.002
	100,000	0.105	1.3	0.3	0.002

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That on January 14, 1993, the Air Resources Board approved the repeal of the currently-effective requirement that each manufacturer certify a minimum of 80 percent of its projected sales of 1994 model-year California-certified passenger cars and light-duty trucks to the phase-in standards for NMHC, or the more stringent standards in section 1960.1(g)(2) of Title 13, California Code of Regulations. If the repeal of such requirement does not become effective by December 31, 1993, the manufacturer shall submit a plan for compliance with the requirement; passenger cars and light-duty trucks not meeting such phase-in or more stringent standards shall be certified only to the extent allowed under the requirement.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2290).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models have been exempted from compliance with the "Malfunction and Diagnostic System Requirements-1994 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the TLEV hydrocarbon exhaust emission standard to which the listed vehicles are certified is at least twice as stringent as otherwise applicable to gasoline vehicles of the same year and class, and the listed vehicles therefore meet the definition of "low-emission motor vehicle" set forth in Health and Safety Code Sections 39037.05 and 43800.

BE IT FURTHER RESOLVED: That the listed vehicle models shall be clearly labeled as "low-emission motor vehicles" as defined in Health and Safety Code Sections 39037.05 and 43800, and such labeling shall meet the requirements of Health and Safety Code Section 43802(a) at the time of sale.

BE IT FURTHER RESOLVED: That the listed vehicle models are certified as TLEVs at the request of General Motors Corporation based on the assumption that the "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles" will be amended to allow the certification of 1994 model TLEVs on a phase 2 certification gasoline having specifications substantially similar to the specifications of the gasoline used to certify the listed vehicle models. The Air Resources Board approved such amendments at a hearing conducted August 14, 1992. The certification of the listed vehicle models as TLEVs is <u>CONDITIONAL</u> on such amendments becoming effective by August 1, 1993. If such amendments do not become effective by August 1, 1993, the listed vehicle models shall be

deemed certified to the phase-in standards for light-duty trucks of 3751-5750 pound loaded vehicle weight as set forth in section 1960.1 (f)(1) of Title 13, California Code of Regulations (For 50,000 miles: 0.32 g/mi non-methane hydrocarbons or NMHC, 4.4 g/mi carbon monoxide or CO, and 1.0 g/mi oxides of nitrogen. For 100,000 miles: 0.40 g/mi NMHC and 5.5 g/mi CO.)

BE IT FURTHER RESOLVED: That the listed vehicle models are certified as TLEVs at the request of General Motors Corporation based on the assumption that the 50-degree Fahrenheit exhaust emission standards in the "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles" will be amended with the result that the data submitted by General Motors for the listed vehicle models would be sufficient to satisfy the 50-degree Fahrenheit exhaust emission standards for TLEVs. The Air Resources Board approved such amendments at a hearing conducted on January 14, 1993. The certification of the listed vehicle models as TLEVs is CONDITIONAL on such amendments becoming effective by December 31, 1993. If such amendments do not become effective by December 31, 1993, the listed vehicle models shall be deemed certified to the phase-in standards for light-duty trucks of 3751-5750 pound loaded vehicle weight as set forth in section 1960.1 (f)(1) of Title 13, California Code of Regulations (For 50,000 miles: 0.32 g/mi non-methane hydrocarbons or NMHC, 4.4 g/mi carbon monoxide or CO, and 1.0 g/mi oxides of nitrogen. For 100,000 miles: 0.40 g/mi NMHC and 5.5 g/mi CO.)

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

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

Executed at El Monte, California this 4th day of May, 1993.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

A-6-636

(FOR CARB USE ONLY)

16.03.00.00

EXECUTIVE ORDER INFORMATION

ENGINE FAMILY..... R3G3.828G2EA

EVAPORATIVE FAMILY..... R3G1058AYP0A

CARLINES TO BE COVERED:

CARLINE NAME	CARLINE CODE
LUMINA APV 2WD	55095
TRANS SPORT 2WD	89210
SILHOUETTE 2WD	92510

(FOR CARB USE ONLY)

E.O. #A-6-636

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Example, Pattern A: CC10703+E62
Example, Pattern B: 1UM05

Digit 1 = Marketing Division

Pattern A	Pattern B
C = Chevrolet	1 = Chevrolet
T = GMC	2 = Pontiac
H = Oldsmobile	3 = Oldsmobile

Note: Digit 1 is not used for Pattern A models on engine family pages or California Supplemental Data Sheets.

Digit 2 = Chassis Type (all)

U = Conventional 4x2 Front Wheel Drive
C, S, M = Conventional 4x2 Rear Wheel Drive
G = Forward Control 4x2 Rear Wheel Drive
K, T, L = Conventional 4x4 Four Wheel Drive, All Wheel Drive

Digit 3 = Series/GVWR

Pattern A	Pattern B
1 = 10,15,1500/3500-7300	Letter code designates trim level rather than series/GVWR.
2 = 20,25,2500/6400-8600	
3 = 30,35,3500/7100-14500	

Digits 4 & 5

Pattern A = Dimensional Grouping	Pattern B
05 = Blazer, Jimmy, Bravada	05 = Cargo (APV)
06 = S/T Short Box	06 = Passenger (Lumina APV, Trans Sport, Silhouette)
07 = C/K Short Box	
08 = S/T Long Box & Cab-Chassis	
09 = C/K Long Box, Suburban, M/L Short Body	
10 = G Short Wheelbase, M/L Long Body	
13 = G Long Wheelbase	

Digits 6 & 7 = Body/Cab Codes (Pattern A Only)

03 = Conventional Cab, Cab-Chassis
05 = Cargo Van
06 = Passenger Van, 4 Door Special Purpose Vehicle
16 = 2 Door Special Purpose Vehicle
53 = Extended Cab

Pickup Body Codes (Optional, Used with Pattern A Only)

+E62 = Stepside, Fenderside
+E63 = Fleetside, Wideside
+ZW9 = Cab-Chassis

ISSUED: 03-29-93 REVISED:
(ML-RP215)

17-R3G3.828G2EA-1
(1994)

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CHEVROLET LIGHT DUTY TRUCK MODEL IDENTIFICATION

MODEL	NAME	CAR LINE	CODE
1UM05	LUMINA APV CARGO VAN	LUMINA APV 2WD	55095
1UM06	LUMINA APV PASSENGER VAN		55095

ISSUED: 01-15-93
(ML-RP096)

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PONTIAC LIGHT DUTY TRUCK MODEL IDENTIFICATION

MODEL	NAME	CAR LINE	CODE
2UM06	TRANS SPORT SE	TRANS SPORT 2WD	89210

ISSUED: 01-15-93
(ML-RP096)

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OLDSMOBILE LIGHT DUTY TRUCK MODEL IDENTIFICATION

MODEL	NAME	CAR LINE	CODE
HT10506	BRAVADA - 4 DOOR	BRAVADA AWD	92520
3UM06	SILHOUETTE 3 DOOR	SILHOUETTE	92510

ISSUED: 01-15-93
(ML-RP096)

(FOR CARB USE ONLY)

E.O. #A-6-636

1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: R3G3.828G2EA

PASSENGER CARS___ LIGHT DUTY TRUCKS_X_ T2 MEDIUM DUTY VEHICLES___

FUEL TYPE: PHASE 2 STANDARDS TYPE: TLEV VEHICLE TYPE: NA

ENGINE CONFIG: V6 LITER (CID): 3.8 (231) EVAP FAMILY: R3G1058AYP0A

ENGINE: FRONT_X_ MID___ REAR___ DRIVE: FWD_X_ RWD___ 4WD-FT___ 4WD-PT___

EMISSION CONTROL SYSTEM & SPECIAL FEATURES: EGR/TWC/HO2S/SFI

DPA: SECTION 08.13.02.00

ENG CODE	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECM/PCM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
11	1UM06 2UM06 3UM06	A4	4250	DK123262	17094050, 17094153	25143534
11A				16179294/BBRH		
11B				16194834/BHFB		
11C				16206364/BLJT		

ISSUED: 03-29-93 (ML-RP215) REVISED: ML-RR028, RR117