State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-733

Relating to Certification of New Medium-Duty Motor Vehicle Engines

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following 1996 model-year General Motor Corporation Otto-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) of 8,501 to 14,000 pounds:

Fuel Type: Gasoline

Engine Family	Engine Displacement Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
TGM5.7CPGAEA	5.7	(350)	Dual Heated Oxygen Sensor (2) Exhaust Gas Recirculation Dual Three Way Catalytic Converter Sequential Multiport Fuel Injection
TGM7.4C8GAEA	7.4	(454)	Dual Heated Oxygen Sensor (2) Exhaust Gas Recirculation Dual Three Way Catalytic Converter Sequential Multiport Fuel Injection

Engine models and codes are listed on attachments.

The certification exhaust emission standards for these engine families in grams per brake horsepower-hour are:

Non-Methane Hydrocarbons + Nitrogen Oxides	Carbon Monoxide
3.9	14.4

The certification exhaust emission values for these engine families in grams per brake horsepower-hour are:

Engine Family	Non-Methane Hydrocarbons + Nitrogen Oxides	Carbon Monoxide
TGM5.7CPGAEA	2.1	4.3
TGM7.4C8GAEA	2.7	9.3

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional standards and test procedures applicable to incomplete and diesel medium-duty vehicles of 8,501 to 14,000 pounds GVWR pursuant to Title 13, California Code of Regulations, Section 1956.8(g).

BE IT FURTHER RESOLVED: That the listed engine models shall be subject to the in-use compliance provisions applicable to 1995 and subsequent model-year medium-duty vehicle engines set forth in Title 13, California Code of Regulations, Section 2139(c).

BE IT FURTHER RESOLVED: That the listed engine 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 FURTHUR RESOLVED: That the listed engine models also comply 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 engine models, the manufacturer has submitted 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.).

Engines 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 attachments.

Executed at El Monte, California this 31st day of August 1995.

John Kowalski for RBS

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O. #A-6-733

1996 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
INCOMPLETE MEDIUM-DUTY VEHICLE ENGINES
(CERTIFIED USING HEAVY-DUTY OTTO-CYCLE ENGINE TEST PROCEDURES)

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM5.7CPGAEA

ENGINE CONFIG: V8 VALVES/CYL: 2 DISPL: 5.7 LITERS 350 CID

CERT STD: TIER-1 X LEV___ ULEV___ ENG INTENDED SERVICE CLASS: M4___ M5___

IN-USE STDS: FULL IN-USE___ ALT IN-USE X MAX RATED POWER: 245 HP @ 4400 RPM

ALL ENG CODES IN ENG FAMILY: CA X 49S X 50S X

FUEL TYPE(S): DEDICATED X FLEX-FUEL___ DUAL-FUEL___ BI-FUEL___ GASOLINE X CNG___

LNG___ LPG___ M85___ M100___ OTHER (SPECIFY)___

EMIS TEST FUEL(S): INDO X CNG___ LPG___ M85___ M100___ OTHER (SPECIFY) ___

EXHAUST ECS (E.G., OC, TWC, MFI, IFI, TC, CAC): 2TWC, SFI, EGR, 2 HO_2S(2)
(USE ABBREVIATIONS PER SAE J1930 SEP91)

ENGINE MODEL (ENG CODE)	RATED HP @ RPM	IGNITION SYSTEM OR ECM/PCM P/N	FUEL SYSTEM INJECTOR & PUMP P/N	EGR VALVE P/N	CATALYTIC CONVERTER P/N
L31 (5)	245 @ 4400	16213165+ 16187735 16187756 16187885	PART OF INTAKE MANIFOLD ASM 17096072	17096188	25160620: 2 USED

ISSUED: 002 REV. NO.: