State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-757
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 1997 model-year General Motors Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: VGM2.218G1EK Displacement: 2.2 Liters (134 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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

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

Loaded Vehicle Weight(lbs.)	Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
0-3750	50,000	0.25	3.4	0.4	10.0
	100,000	0.31	4.2	0.6	n/a

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

Loaded Vehicle Weight(lbs.)	Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
0-3750	50,000	0.15	2.2	0.3	7.8
	100,000	0.21	3.0	0.4	n/a

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 NMOG fleet average 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 the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

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 2235).

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 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) 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.).

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 21st day of May 1996.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

LIGHT DUTY TRUCK MODEL NUMBER DEFINITION

(Includes California Medium Duty Trucks)

E.O. #A-6-757

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

Digit 1 = Marketing Division

Pattern A
C = Chevrolet
T = GMC
H = Oldsmobile
G = Isuzu

Pattern B
1 = Chevrolet
2 = Pontiac
3 = Oldsmobile

Note: Digit 1 is only used for Pattern A models on engine family pages or California Supplemental Data Sheets when necessary to discriminate by division model.

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
1 = 11,15,1500/3500-7300
2 = 21,25,2500/6400-8600
3 = 31,35,3500/7100-14500

Pattern B
Letter code designates trim level rather than series/GVWR.

Digits 4 & 5

Pattern A = Dimensional Grouping
05 = Utility: Tahoe (2Dr), Yukon (2Dr), Blazer, Jimmy, Bravada
06 = S/T Short Box
07 = C/K Short Box, Tahoe (4Dr), Yukon (4Dr)
08 = S/T Long Box & Cab-Chassis
09 = C/K Long Box, Suburban
10 = M/L Long Body
14 = G Short Wheelbase
17 = G Long Wheelbase

Pattern B = Body Style
06 = Passenger (Venture, Trans Sport, Silhouette)
16 = Passenger (Venture, Trans Sport, Silhouette) Dual Sliding Doors

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
43 = Crew Cab
53 = Extended Cab

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

+E62 = Stepside, Fenderside
+E63 = Fleetside, Wideside

ISSUED: ML-VP102 REVISED:

17-VGM2.218G1EK-1
(1997)

(FOR CARB USE ONLY)

E.O. #A-6-757

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM2.218G1EK EVAP FAMILY: VGM1095AYMEA

ALL ENGINE CODES IN ENGINE FAMILY: CA (X) 49S ( ) 50S ( ) AB965 ( )

EXH STD: CA TIER-1 (X) TLEV ( ) LEV ( ) ULEV ( ) ZEV ( ); U.S. EPA TIER-1 ( )

EVAP STD: 50K ( ) USEFUL LIFE WITH R/L (X); IN-USE EXH STD: FULL (X) ALTERNATIVE ( )

VEH CLASS(ES): PC ( ) LDT1 (X) LDT2 ( ) MDV1 ( ) MDV2 ( ) MDV3 ( ) MDV4 ( ) MDV5 ( )

SINGLE CERT STANDARD FOR MULTI-CLASS ENGINE FAMILY: NA

FUEL TYPE(S): DEDICATED (X) GASOLINE (X); EMISSION TEST FUEL(S): INDOLENE ( ) PHASE 2 (X)

SERVICE ACCUMULATION: STD AMA ( ) MFR ADP (X); NMOG TEST PROCEDURE: NA (X) EQUIV ( )

R/L TEST PROCEDURE: NA ( ) PT SOURCE (X); HYBRID TYPE: NA APU CYCLE: NA

ENGINE CONFIGURATION: I4 (X) V6 ( ) V8 ( ) DISPLACEMENT: 2.2 LITERS / 134 CU. IN.

VALVES / CYLINDER: 2 (X) 4 ( ) RATED HP: 118 @ 5200 RPM

ENGINE LOCATION: FRONT (X) DRIVE: FWD ( ) RWD (X) 4WD-FT ( ) 4WD-PT ( )

EXHAUST EMISSION CONTROL SYSTEM: TWC, EGR, O2S, HO2S, SFI

RLHP / DPA VALUES: SECTION 08.13.02.00

ENG CODE (OC)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	EQUIV. TEST WEIGHT	IGNITION (PCM/CALIB PART NO.)	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
11	S10603+E62 S10603+E63 S10803+E63 JS10603+E63 S10653+E62 S10653+E63 JS10653+E63	A4	3375 3500	16204850/16234863	17096100, 17096306	25163564
11A				16204850/16251143		
11B				16204850/16255003		
11C				16204850/16258713		
11D				16204850/16263023		

CARLINE NAME	CARLINE CODE
S10 PICKUP 2WD	55082
SONOMA 2WD	80072
HOMBRE P/U 2WD	84020

ISSUED: ML-VP102 REVISED: ML-VR055, ML-VR082, ML-VR095, ML-VR114, ML-VR095A, ML-VR126

17-VGM2.218G1EK-2
(1997)

(FOR CARB USE ONLY)

E.O. #A-6-757

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM2.218G1EK EVAP FAMILY: VGM1095AMEA

ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	EQUIV. TEST WEIGHT	IGNITION (PCM/CALIB PART NO.)	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
12	S10603+E62	A4	3375	16204850/16234863	17096100, 17096306	25163564
	S10603+E63					
	JS10603+E63					
	S10803+E63		3500			
	S10653+E62					
	S10653+E63		3625			
	JS10653+E63					
12A				16204850/16251143		
12B				16204850/16255003		
12C				16204850/16258713		
12D				16204850/16263023		
13	S10603+E62	M5	3250	16214850/16234803		
	JS10603+E63		3375			
	S10603+E63					
	S10803+E63					
13A				16214850/16251083		
13B				16214850/16253123		
13C				16214850/16254943		
13D				16214850/16258693		
13E				16214850/16259983		
14	JS10603+E63		3375	16214850/16234803		
	S10603+E62					
	S10603+E63					
	S10803+E63					
14A				16214850/16251083		
14B				16214850/16253123		
14C				16214850/16254943		
14D				16214850/16258693		
14E				16214850/16259983		

CARLINE NAME	CARLINE CODE
S10 PICKUP 2WD	55082
SONOMA 2WD	80072
HOMBRE PU 2WD	84020

ISSUED: ML-VP102 REVISED: ML-VR055, ML-VR074, ML-VR082, ML-VR079, ML-VR114, ML-VR126

(FOR CARB USE ONLY)

E.O. #A-6-757

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM2.218G1EK EVAP FAMILY: VGM1095AMEA

ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	EQUIV. TEST WEIGHT	IGNITION (PCM/CALIB PART NO.)	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
15	S10653+E62		3500	16214850/16234813	17096100,	25163564
	S10653+E63				17096306	
	S10803+E63					
15A				16214850/16251113		
15B				16214850/16253143		
15C				16214850/16254973		
15D				16214850/16258703		
15E				16214850/16263013		
16	S10653+E62			16214850/16234813		
	S10653+E63					
	S10803+E63					
16A				16214850/16251113		
16B				16214850/16253143		
16C				16214850/16254973		
16D				16214850/16258703		
16E				16214850/16263013		
17	JS10653+E63		3625	16214850/16257253		
17A				16214850/16258723		
17B				16214850/16253023		
18	JS10653+E63			16214850/16257253		
18A				16214850/16258723		
18B				16214850/16253023		

CARLINE NAME	CARLINE CODE
S10 PICKUP 2WD	55082
SONOMA 2WD	80072
HOMBRE PU 2WD	84020

ISSUED: ML-VR126 REVISED:

17-VGM2.218G1EK-3.1
(1997)

EMISSION DATA RATIOS

TO BE USED FOR ASSEMBLY LINE TESTING

	34T6U051 (Config 000)	34T6U051 (Config 001)
NMHC* (G/MI)	0.0650	0.0701
NMOG (G/MI)	0.0675	0.0720
HCHO (G/MI)	0.0012	0.0013
NMOG:NMHC	1.0385	1.0271
HCHO:NMHC	0.0185	0.0185

* NMHC includes methane response factor.

Average NMOG:NMHC = 1.033

Average HCHO:NMHC = 0.018

Ratio established using Phase 2 emission certification fuel.

ISSUED: ML-VP058 REVISED: ML-VP219

17-VGM3.428G2EK-7
(1997)