State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-759 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: VGM4.31PG1EK Displacement: 4.3 Liters (262 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation
Three Way Catalytic Converter
Dual Heated Oxygen Sensors
Heated Oxygen Sensors (two)
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.)	<u>Miles</u>	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon Monoxide (20 ⁰ 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.)	<u>Miles</u>	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon <u>Monoxide (20⁰F)</u>
0-3750	50,000	0.15	2.3	0.2	3.9
	100,000	0.16	2.4	0.2	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 day of May 1996.

Assistant Division Chief Mobile Source Division

LIGHT DUTY TRUCK MODEL NUMBER DEFINITION

(Includes California Medium Duty Trucks)

E.O. #A-6-759

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-VP083

REVISED:

17-VGM4.31PG1EK-1 (1997)

JAMFR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM4.31PG1EK 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() 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 () 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: !4() V6(X) V8() DISPLACEMENT: 4.3 LITERS / 262 CU. IN. VALVES / CYLINDER: 2(X) 4() RATED HP: 170 @ 4400 RPM ENGINE LOCATION: FRONT (X) DRIVE: FWD() RWD(X) 4WD-FT() 4WD-PT() EXHAUST EMISSION CONTROL SYSTEM: LEGR, TWC, 2HO2S-HO2S(2), SFI RLHP / DPA VALUES: SECTION 08.13.02.00

ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	EQUIV. TEST <u>WEIGHT</u>	IGNITION (PCM/CALIB PART NO.)	EGR SYSTEM <u>PART NO.</u>	CATALYTIC CONVERTER <u>PART NO.</u>
(C)						
1	S10603+E63	A4	3625	16213175-PCM	17096188,	25152875
	S10803+E63		3750	16204025-0PER	17096309	
	S10653+E63		3875	16204272-ENG		
	S10603+E62		3625	16204108,		
	S10653+E62		3875	16204109-TRANS		
2	S10603+E63		3625			
	S10803+E63		3750			
	S10653+E63		3875			
	S10603+E62		3625			
	S10653+E62		3875			

CARLINE NAME
CHEVROLET S10 PICKUP 2WD
GMC SONOMA PICKUP 2WD

55082 80072

ISSUED: ML-VP083

REVISED: ML-VR044, ML-VR050

17-VGM4.31PG1EK-2 (1997)

E.O. #A-6-759

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

FR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM4.31PG1EK EVAP FAMILY: VGM1095AYMEA

ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	EQUIV. TEST <u>WEIGHT</u>	IGNITION (PCM/CALIB PART NO.)	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
(C) 1A,2A	S10603+E63 S10803+E63 S10653+E63 S10603+E62 S10653+E62	A4	3625 3750 3875 3625 3875	16213175-PCM 16243345PC-0PER 16243401-ENG 16243544, 16243545-TRANS	17096188, 17096309	25152875
1B,2B				16243345PF-OPER 16243478-ENG		
1C,2C	\$10603+E63 \$10803+E63 \$10653+E63 \$10603+E62 \$10653+E62 J\$10603+E63 J\$10653+E63		3625 3750 3875 3625 3875 3625 3875	16243512-ENG		
D,2D				16256455PG-OPER 16256245-ENG		

CARLINE CODE
55082
80072
84020

ISSUED: ML-VR017 REVISED: ML-VR044, ML-VR050, ML-VR065, ML-VR069, ML-VR103

17-VGM4.31PG1EK-2.1 (1997)

(FOR CARB USE ONLY)

E.O. #A-6-759

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM4.31PG1EK EVAP FAMILY: VGM1095AYMEA

ENG CODE (LOC) (C)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	EQUIV. TEST <u>WEIGHT</u>	IGNITION (PCM/CALIB PART NO.)	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
3	\$10603+E63 \$10803+E63 \$10653+E63 \$10603+E62 \$10653+E62	M5	3625 3750 3875 3625 3875	16213175-PCM 16204025-0PER 16204274-ENG 16204115-TRANS	17096188, 17096309	25152875
3A	C10000 - E02		3010	16213175-PCM 16243345PC-OPER 16243403-ENG 16243566-TRANS		
3B				16243345PF-OPER 16243480-ENG		
3C	S10603+E63 S10803+E63 S10653+E63 S10603+E62 S10653+E62 JS10603+E63 JS10653+E63		3625 3750 3875 3625 3875 3625 3875	16243514-ENG		
3D				16256455PG-OPER 16256247-ENG		

CARLINE NAME	CARLINE CODE
CHEVROLET S10 PICKUP 2WD	55082
GMC SONOMA PICKUP 2WD	80072
ISUZU HOMBRE PICKUP 2WD	84020

ISSUED: ML-VP083 REVISED: ML-VR017, ML-VR044, ML-VR050, ML-VR065, ML-VR069, ML-VR103

17-VGM4.31PG1EK-3 (1997)

E.O. #A-6-759

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM4.31PG1EK EVAP FAMILY: VGM1095AYMEA

ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	EQUIV. TEST <u>WEIGHT</u>	IGNITION (PCM/CALIB PART NO.)	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
(C) 4	\$10603+E63 \$10803+E63 \$10653+E63 \$10603+E62		3625 3750 3875 3625	16213175-PCM 16204025-OPER 16204274-ENG 16204115-TRANS	17096188, 17096309	25152875
4A	S10653+E62		3875	16213175-PCM 16243345PC-OPER 16243403-ENG 16243566-TRANS		
4B				16243345PF-OPER 16243480-ENG		
4C	\$10603+E63 \$10803+E63 \$10653+E63 \$10603+E62 \$10653+E62		3625 3750 3875 3625 3875	16243514-ENG		
	JS10603+E63 JS10653+E63		3625 3875			
4D				16256455PG-OPER 16256247-ENG		
	CARLINE NA OLET S10 PICKUP ONOMA PICKUP 2V	2WD	_	<u>CARLINE CODE</u> 55082 80072		

84020

ISSUED: ML-VR069

ISUZU HOMBRE PICKUP 2WD

REVISED: ML-VR103

17-VGM4.31PG1EK-3.1 (1997)

MFR: GENERAL MOTORS CORP. ENGINE FAMILY: VGM4.31PG1EK 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 () 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 () V6 (X) V8 () DISPLACEMENT: 4.3 LITERS / 262 CU. IN. VALVES / CYLINDER: 2(X) 4() RATED HP: 180 @ 4400 RPM DRIVE: FWD() RWD(X) 4WD-FT() 4WD-PT() ENGINE LOCATION: FRONT (X) EXHAUST EMISSION CONTROL SYSTEM: LEGR, TWC, 2HO2S-HO2S(2), SFI RLHP / DPA VALUES: SECTION 08.13.02.00

ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	EQUIV. TEST <u>WEIGHT</u>	IGNITION (PCM/CALIB PART NO.)	EGR SYSTEM <u>PART NO.</u>	CATALYTIC CONVERTER PART NO.
(C)						
5	S10603+E63	A4	3625	16213175-PCM	17096188,	25152875
	S10803+E63		3750	16204025-0PER	17096309	
	S10653+E63		3875	16232508-ENG		
	S10603+E62		3625	16204111,		
	S10653+E62		3875	16204112-TRANS		
6	S10603+E63		3750			
	S10803+E63					
	S10653+E63		3875			
	S10603+E62					
	CS10653+E62		3750			
	TS10603+E62		3625			

CARLINE NAME CARLINE CODE
CHEVROLET S10 PICKUP 2WD 55082
GMC SONOMA PICKUP 2WD 80072

ISSUED: ML-VP083

REVISED: ML-VR044, ML-VR050

17-VGM4.31PG1EK-4 (1997)

R: G∹س	SENERAL MOTORS CORP.	ENGINE FAMILY: VGM4.31PG1EK	EVAP FAMILY: VGM1095AYMEA
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ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC.)	EQUIV. TEST <u>WEIGHT</u>	IGNITION (PCM/CALIB PART NO.)	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
(C) 5A	\$10603+E63 \$10803+E63 \$10653+E63 \$10603+E62 \$10653+E62	A4	3625 3750 3875 3625 3875	16213175-PCM 16243345PC-0PER 16243398-ENG 16243547, 16243548-TRANS	17096188, 17096309	25152875
6A	S10603+E63 S10803+E63 S10653+E63 S10603+E62 CS10653+E62 TS10603+E62		3750 3875 3750 3625			
5B,6B				16243345PF-OPER 16243472-ENG		
5C,6C				16243506-ENG		
) ,6D				16256455PG-OPER 16256236-ENG		

CARLINE NAME	CARLINE CODE
CHEVROLET S10 PICKUP 2WD	55082
GMC SONOMA PICKUP 2WD	80072

ISSUED: ML-VR017

REVISED: ML-VR044, ML-VR050, ML-VR065, ML-VR103

FR: GI	ENERAL MOTORS	CORP. E	NGINE FAMILY:	VGM4.31PG1EK	EVAP FAMILY: VO	EVAP FAMILY: VGM1095AYMEA	
ENG CODE (LOC) (C)	VEH MODELS (SEE PAGE 1)	TRANS (M5,A4,ETC	EQUIV. TEST) <u>WEIGHT</u>	IGNITION (PCM/CALIB PART	EGR SYSTEM NO.) PART NO.	CATALYTIC CONVERTER PART NO.	
7	S10603+E63 S10803+E63 S10653+E63 S10603+E62 S10653+E62	M 5	3625 3750 3875 3625 3875	16213175-PCM 16204025-0PER 16204260-ENG 16204115-TRANS	17096188, 17096309	25152875	
7A				16213175-PCM 16243345PC-OPEI 16243399-ENG 16243566-TRANS	₹		
7B				16243345PF-OPEF 16243474-ENG	₹		
7C				16243508-ENG			
7D				16256455PG-OPE 16256239-ENG	२		
3 →	S10603+E63 S10803+E63 CS10653+E63 TS10653+E63 S10603+E62 S10653+E62		3625 3750 3875 3750 3625 3875	16213175-PCM 16204025-OPER 16204260-ENG 16204115-TRANS			
8A				16213175-PCM 16243345PC-OPEF 16243399-ENG 16243566-TRANS	₹		
8B				16243345PF-OPEF 16243474-ENG	₹		
8C				16243508-ENG			
8D				16256455PG-OPEF 16256239-ENG	₹		
	CARLINE NA LET S10 PICKUP : NOMA PICKUP 2W	2WD		CARLINE CODE 55082 80072			

ISSUED: ML-VP083 REVISED: ML-VR017, ML-VR044, ML-VR050, ML-VR065, ML-VR103

17-VGM4.31PG1EK-5 (1997)

17-431PG