Tile

#### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-6-755 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 passenger cars:

Fuel Type: Gasoline

Engine Family: VGM4.6VJG1EK <u>Displacement</u>: 4.0 Liters (240 Cubic Inches) 4.6 Liters (280 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:

	Non-Methane	Carbon	Nitrogen	Carbon
Miles	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	Monoxide (20 <sup>0</sup> F)
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:

-	Non-Methane	Carbon	Nitrogen	Carbon	
Miles	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20<sup>0</sup>F)</u>	
50,000	0.15	1.9	0.2	6.5	
100,000	0.20	2.6	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 50,000-mile evaporative emission standards applicable to 1980 through 1994 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, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "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 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 22 day of April 1996.

R. B./Summerfield

Assistant Division Chief Mobile Source Division

## AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET GASOLINE-FUELED PASSENGER CARS

**VEHICLE MODELS:** 

1 J C 3 7 (EXAMPLE)

#### Digit 1 - Selling Division

- 1 Chevrolet
- 2 Pontiac
- 3 Oldsmobile
- 4 Buick
- 6 Cadillac
- 8 Saturn

#### Digit 2 - Body Designation

C - Ninety-Eight, Park Avenue

E - Eldorado

F - Camaro, Firebird/Formula

G - Riviera, Aurora

H - Bonneville, Eighty-Eight, LeSabre

- Cavalier, Sunfire

K - Seville

Ksp - Deville/Concours

N - Grand Am, Achieva, Skylark, Malibu, Cutlass Supreme

V - Catera

W - Grand Prix, Regal, Century, Lumina, Monte Carlo

Y - Corvette

Z - Saturn SC, SL, SW

#### Digit 3 - Trim Level

B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, W, X, Y, Z

#### Digits 4 & 5 - Body Style

07 - 2Dr Sport Coupe	37 - 2Dr Hardtop Coupe
08 - 2Dr Hatchback Coupe	47 - 2Dr Hardtop Coupe
11 - 2Dr Notchback	57 - 2Dr Hardtop Coupe
15 - 2Dr Station Wagon	67 - 2Dr Convertible Coupe
19 - 4Dr Sedan	68 - 4Dr Hatchback Sedan
23 - 4Dr Aux. Seat Sedan	69 - 4Dr (Notchback) Sedan
27 - 2Dr (Notchback) Coupe	77 - 2Dr Hatchback Coupe
29 - 4Dr Sedan	87 - 2Dr Hatchback Coupe
35 - 4Dr Station Wagon	90 - Commercial Chassis

ISSUED: ML-VP045

REVISED:

17-VGM4.6VJG1EK-1 (1997)

#### 1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

¹FR: G	ENERAL MOTORS	CORP. ENG	INE FAMILY:	VGM4.6VJG1EK	EVAP	FAMILY: VGI	M1095AYPAA
LL ENGINE CODES IN ENGINE FAMILY: CA (X) 49S ( ) 50S ( ) AB965 ( )							
EXH ST	D: CA TIER-1 ( X	) TLEV( ) L	.EV() UL	EV() ZEV(	); U.S. E	EPA TIER-1 (	)
EVAP S	TD: 50K ( X )	USEFUL LIFE W	ITH R/L ( );	IN-USE EXH	STD: FUI	L(X) ALTI	ERNATIVE()
VEH CL	ASS(ES): PC (	X) LDT1() [	.DT2 ( ) MI	DV1() MDV2(	( ) MDV3	( ) MDV4 (	) MDV5()
SINGLE	CERT STANDARD	FOR MULTI-CLA	ASS ENGINE	FAMILY: NA			
FUEL TY	PE(S): DEDICAT	ED(X) GASOL	INE(X);	EMISSION TEST	FUEL(S): II	NDOLENE ( )	PHASE 2 (X)
SERVIC	E ACCUMULATION	N: STD AMA ( )	MFR ADP (	X); NMOG TE	ST PROCE	DURE: NA()	X) EQUIV()
R/L TES	T PROCEDURE:	NA(X) PTS	OURCE();	HYE	BRID TYPE:	NA API	U CYCLE: NA
ENGINE	CONFIGURATION	1: 14 ( ) V6 (	) V8(X)	DISPLA	CEMENT: 4	.6 LITERS / 28	80 CU. IN.
		VALVES / CYL	INDER: 2 (	) 4(X)	RATE	ED HP: 300 @	6000 RPM
ENGINE	LOCATION: FRO	ONT (X)	DR	IVE: FWD(X)	RWD()	4WD-FT()	4WD-PT ( )
EXHAUS	ST EMISSION CON	ITROL SYSTEM:	EGR-TWC-S	FI-2HO2S-(HO2S	3(2))		
RLHP / [	DPA VALUES: SE	CTION 08.13.02.0	0				
ENG	VEH MODELS	TDANC	EQUIV. TEST	IGNITIO	N.	EGR SYSTEM	CATALYTIC CONVERTER
CODE (LOC)	(SEE PAGE 1)			(PCM/CALIB PA			PART NO.
(C) 11	6KY69	A4	4250	16214848/162	1.11EE	17006310	25161562,
	6ET57	A <del>-1</del>	4230	10214040/102	77100	17030310	25314806
11A				16214848/162	44756		
11B				16214848/162	56616		
12	6ET57			16214848/162	44166		
	6KY69						
12A	6KF69			16214848/162	44766		
42B				16014040460	eeene		
12B				16214848/162	30020		
13	6EL57 6KS69		4000 4250	16214848/162	35316		
	6KD69		4250				
13A	6KE69			16214848/162	44126		
13B				16214848/162	56586		
	CARLINE NAME CARLINE CODE						
SEVILLE ELDORA				10005 10020			
DEVILLE				10010			

'SSUED: ML-VR005

REVISED: ML-VR020, ML-VR060, ML-VR110, ML-VR135

#### 1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

➡€R: GENERAL MOTORS CORP. ENGINE FAMILY: VGM4.6VJG1EK EVAP FAMILY: VGM1070AYPAA 49S() 50S() AB965 ( ) ALL ENGINE CODES IN ENGINE FAMILY: CA(X) EXH STD: CA TIER-1 (X) TLEV() LEV() ULEV() ZEV(); U.S. EPA TIER-1 () 50K(X) USEFUL LIFE WITH R/L(); IN-USE EXH STD: FULL(X) ALTERNATIVE() EVAP STD: VEH CLASS(ES): PC (X) LDT1 ( ) 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() HYBRID TYPE: NA APU CYCLE: NA R/L TEST PROCEDURE: NA(X) PT SOURCE(); ENGINE CONFIGURATION: I4 ( ) V6 ( ) V8 ( X ) DISPLACEMENT: 4.0 LITERS / 240 CU. IN. RATED HP: 250 @ 5600 RPM VALVES / CYLINDER: 2() 4(X) DRIVE: FWD(X) RWD() 4WD-FT() 4WD-PT() ENGINE LOCATION: FRONT(X) EXHAUST EMISSION CONTROL SYSTEM: EGR-TWC-SFI-2HO2S-(HO2S(2)) RLHP / DPA VALUES: SECTION 08.13.02.00

ENG CODE OC)	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) 14	3GR29			16214848/16235426	17096310	25161938
1 <b>4A</b>				16214848/16244736		
14B				16214858/16256666		
15	3GR29			16214848/16235436		
15A				16214848/16244746		
15B				16214848/16256676		

CARLINE NAME CARLINE CODE
AURORA 29045

UED: ML-VP045

REVISED: ML-VR005, ML-VR020, ML-VR061, ML-VR110

### 1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: GENER	RAL MOTORS C	ORP. ENGIN	IE FAMILY: V	/GM4.6VJG1EK	EVAP F	AMILY: VGM	1070AYPAA	
				` '		AB965 ( )		
EXH STD: C	CA TIER-1 (X)	TLEV() LE	V() ULE\	V() ZEV();	U.S. EF	A TIER-1 ( )		
EVAP STD:	50K(X) US	SEFUL LIFE WIT	H R/L ( );	IN-USE EXH STD:	FULL	(X) ALTE	RNATIVÉ ( )	
VEH CLASS	(ES): PC(X)	LDT1() LD	T2() MD\	V1() MDV2()	MDV3 (	) MDV4()	MDV5()	
SINGLE CER	RT STANDARD F	OR MULTI-CLAS	S ENGINE FA	AMILY: NA				
FUEL TYPE(S	S): DEDICATED	(X) GASOLIN	IE(X); EI	MISSION TEST FUE	_(S): INI	DOLENE ( )	PHASE 2 (X)	
SERVICE AC	CUMULATION:	STD AMA ( )	MFR ADP (X	(); NMOG TEST F	ROCED	URE: NA(X	) EQUIV()	
R/L TEST PR	ROCEDURE: 1	NA(X) PTSO	URCE();	HYBRID	TYPE: N	NA APU	CYCLE: NA	
ENGINE CON	NFIGURATION:	14 ( ) V6 ( )	V8 ( X )	DISPLACEM	ENT: 4.0	LITERS / 240	CU. IN.	
		VALVES / CYLIN	NDER: 2( )	4 ( X )	RATE	) HP: 250 @	5600 RPM	
ENGINE LOC	ENGINE LOCATION: FRONT(X) DRIVE: FWD(X) RWD() 4WD-FT() 4WD-PT()							
	EXHAUST EMISSION CONTROL SYSTEM: EGR-TWC-SFI-2HO2S-(HO2S(2))							
RLHP / DPA	VALUES: SECT	TION 08.13.02.00	l					
ENG			EQUIV.	LONUTION		EGR SYSTEM	CATALYTIC CONVERTER	
	EH MODELS SEE PAGE 1)	TRANS (M5,A4,E <u>TC.)</u>	TEST WEIGHT	IGNITION (PCM/CALIB PART		PART NO.	PART NO.	
	ILL PAGE 17	(1110)/1-12-1-0-7						
(NW)								
30 6	6KH69+V4U	A4	5500	16214848/162519	76	17096310	25161938	

CARLINE NAME
LIMOUSINE
HEARST

10015 10035

SUED: ML-VR107

REVISED:

17-VGM4.6VJG1EK-4 (1997)