#### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-6-708 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 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for passenger cars:

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

Fuel Type: Gasoline

Engine Family: TGM2.4VJG2EK Displacement: 2.4 Liters (145 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation Oxygen Sensor Heated Oxygen Sensor Three Way Catalytic Converter 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:

	Non-Methane	Carbon	Nitrogen		Carbon
<u>Miles</u>	Organic Gas	<u>Monoxide</u>	<u>Oxides</u>	<u>Formaldehyde</u>	<u>Monoxide (20<sup>0</sup>F)</u>
50,000 100,000	0.125 0.156	3.4 4.2	0.4 0.6	0.015 0.018	10.0 n/a

Reactivity Adjustment Factor (RAF) 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 1996 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

	Non-Methane	Carbon	Nitrogen		Carbon	
<u>Miles</u>	Organic Gas	<u>Monoxide</u>	<u>Oxides</u>	<u>Formaldehyde</u>	Monoxide (20 <sup>0</sup> F)	
50,000	0.077	1.6	0.1	0.001	5.5	
100.000	0.092	2.3	0.2	0.002	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 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.).

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

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 \_7 day of July 1995.

R. B. Summerfield Assistant Division Chief Mobile Source Division

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: _(	GENERAL MOTORS COR	<u>RP.</u> ENGIN	E FAMILY:	TGM2.4VJG2EK	EVAP. FAMILY: _	TGM1089AYM0A
ALL ENG	GINE CODES IN ENG	INE FAMILY:	CA <u>X</u>	49S	50S	
EXH ST				ULEVZEV_		
EVAP ST	D: 50K <u>X</u> USE	FUL LIFE WI	TH R/L	: IN-USE EXH ST	D: FULL X A	TERNATIVE
VEH CLA	ASS(ES): PC <u>X</u> L	.DT1LD	T2 MD	V1 MDV2	MDV3 MDV4	MDV5
SINGLE	CERT STD FOR MULT	I-CLASS ENG	INE FAMILY	· NA	11570 11574	
				EMISS TEST FU	IFL (S) - TAIDO	ר אכר א v
SERVICE	ACCUM: STD AMA_	MF	R ADP X		PROC:	
				HYBRID TYPE:		EQUIV_X_
		4_X V6				
2		ALVES/CYLIN		DISPLACEMEN		
ENGINE	LOCATION: FRONT_				ED HP: <u>150</u> (	
				FWD <u>X</u> RWD_	4WD-FT	4WD-PT
DI RDADO	EMISSION CONTROL	3131EM: _t	<u>.uk, 025, F</u>	1025, SFI, TWC		
NLTIF/ DF	A VALUES: <u>SECTI</u>	UN 08.13.02	. 00			
ENG		TRANS.	EQUIV.	IGNITION	EGR	CATALVIIC
CODE	VEH MODELS	(M5,A4	TEST	(ECM/PCM)	SYSTEM	CATALYTIC CONVERTER
' <u>.0C)</u>	(SEE PAGE 1)	ETC.)	<u>WE I GHT</u>	PART NO	<u>PART_NO.</u>	PART NO.
31	2NE37	A4/CUW	3250	16231613/BSUF	17096100.	25160529
	2NE69 3NL37				17096306	1010001
	3NL69					
	4NJ37					
	4NJ69 2NW37		3375			
	2NW69		00,0			

CARLINE NAME
PONTIAC GRAND AM
OLDSMOBILE ACHIEVA
BUICK SKYLARK

CARLINE CODE 33025 29010 08055

SSUED: ML-TP095

REVISED:

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

VEHICLE MODELS:

1 J C 3 7 (EXAMPLE)

#### <u>Digit 1 - Selling Division</u>

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

#### <u>Digit 2 - Body Designation</u>

- Cutlass Ciera, Cutlass Cruiser, Century, Century Wagon
- Caprice, Caprice Wagon, Roadmaster Wagon, Coachbuilder Wagon, Roadmaster
- Ninety-Eight, Park Avenue Fleetwood, Limousine, Funeral Coach/Hearse
- Eldorado
- Camaro, Firebird/Formula
- Riviera, Aurora
- Bonneville, Eighty-Eight, LeSabre
- J - Cavalier, Sunfire
- Seville
- Ksp Deville/Concours
- Corsica, Beretta
- Grand Am. Achieva, Skylark
- Grand Prix, Regal, Cutlass Supreme, Lumina, Monte Carlo
- Corvette
- Saturn SC. SL. SW

### <u>Digit 3 - Trim Level</u>

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

### <u>Digits 4 & 5 - Body Style</u>

- 07 2Dr Sport Coupe 08 2Dr Hatchback Coupe 11 2Dr Notchback
- 15 2Dr Station Wagon 19 4Dr Sedan
- 23 4Dr Aux. Seat Sedan 27 2Dr (Notchback) Coupe
- 29 4Dr Sedan
- 35 4Dr Station Wagon

- 37 2Dr Hardtop Coupe 47 2Dr Hardtop Coupe 57 2Dr Hardtop Coupe 67 2Dr Convertible Coupe 68 4Dr Hatchback Sedan 69 4Dr (Notchback) Sedan 77 2Dr Hatchback Coupe 87 2Dr Hatchback Coupe
  - 90 Commerical Chassis

ISSUED: ML-TP095 REVISED:

# 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MFR: <u>(</u>	GENERAL MOTORS CORP	ENGINE	FAMILY:	TGM2.4VJG2EK	EVAP. FAMILY:	TGM1089AYM0A
ENG CODE (LOC)	VEH MODELS (SEE PAGE 1)	TRANS. (M5.A4 ETC.)	EQUIV. TEST WEIGHT	IGNITION (ECM/PCM) PART NO.	EGR SYSTEM PART NO.	CATALYTIC CONVERTER PART NO.
32	1JF37 2JB37 1JF67 1JF69	A4/WPR	3125 3250	16231403/BSSW	17096100, 17096306	25160527
	2JB69 2JD37 2JB67		3375			
33	1JF67 2JB67		3250 3375	16207973/BLUU	!	

CARLINE NAME
CHEVROLET CAVALIER
PONTIAC SUNFIRE

CARLINE CODE 12060 33060