State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-633 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 Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1994 model-year General Motors Corporation exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: R4G1.9VHG1EA Displacement: 1.9 Liters (116 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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:

Miles	Non-Methane	Carbon	Nitrogen
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>
50,000	0.25	3.4	0.4
100,000	0.31	4.2	n/a

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

Miles	Non-Methane	Carbon	Nitrogen
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>
50,000	0.12	1.8	0.1
100,000	0.12	2.1	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 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 on January 14, 1993, the Air Resources Board adopted the repeal of the currently-effective requirement that each manufacturer certify a minimum of 80 percent of its projected sales of 1994 model-year California-certified passenger cars and light-duty trucks to the phase-in standards for NMHC, or the more stringent standards in section 1960.1(g)(2) of Title 13, California Code of Regulations. If the repeal of such requirement does not become effective, the manufacturer shall submit a plan for compliance with the requirement; passenger cars and light-duty trucks not meeting such phase-in or more stringent standards shall be certified only to the extent allowed under the requirement.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "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 2290).

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 for 1988 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models have been exempted from compliance 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 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 2 day of June, 1993.

R. B. Summer field

Assistant Division Chief Mobile Source Division

16.03.00.00

EXECUTIVE ORDER INFORMATION

ENGINE FAMILY R4G1.9VHG1EA

EVAPORATIVE FAMILY R4G1035AYPOD

CARLINES TO BE COVERED:

CARLINE NAME	<u>CARLINE CODE</u>		
SC	37310		
SL	37320		
SW	37330		

ISSUED: 05-19-93

(ML-RP312)

REVISED:

16-R4G1.9VHG1EA-2 (1994)

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

Digit 2 - Body Designation

- Cutlass Ciera, Cutlass Cruiser, Century, Century Wagon
- Caprice, Custom Cruiser, Roadmaster Wagon, Coachbuilder Wagon, В
- Roadmaster, Caprice Wagon - Ninety-Eight, Park Avenue
- Fleetwood, Limousine, Funeral Coach/Hearse Toronado, Riviera, Eldorado, Trofeo
- Camaro, Firebird
- Bonneville, Eighty-Eight, LeSabre
- Cavalier, Sunbird, Cavalier Wagon
- Seville
- Ksp Deville, Concours
- Corsica, Beretta
- Grand Am, Achieva, Skylark
- Grand Prix, Regal, Cutlass Supreme, Lumina
- Corvette
- Z - Saturn

Digit 3 - Trim Level

A, B, C, D, etc.

Digits 4 & 5 - Body Style

07 - 2Dr Sport Coupe	57 - 2Dr Hardtop Coupe
08 - 2Dr Hatchback Coupe	67 - 2Dr Convertible Coupe
19 - 4Dr Sedan	68 - 4Dr Hatchback Sedan
27 - 2Dr (Notchback) Coupe	69 - 4Dr (Notchback) Sedan
	87 - 2Dr Hatchback Coupe
35 - 4Dr Station Wagon	90 - Commercial Chassis
37 - 2Dr Hardtop Coupe	
47 - 2Dr Hardtop Coupe	97 - 2Dr Hardtop Coupe

ISSUED: 05-19-93

REVISED:

(ML-RP312)

17-R4G1.9VHG1EA-1 (1994)

SATURN MODEL IDENTIFICATION

MODEL	NAME	CAR_LINE	CODE	
8ZE27 8ZF27 8ZG27 8ZH27	SC1 COUPE (W/ M5 TRANS) SC1 COUPE (W/ AUTO TRANS) SC2 COUPE (W/ M5 TRANS) SC2 COUPE (W/ AUTO TRANS)	SC	37310 37310 37310 37310	
8ZF69 8ZG69 8ZH69 8ZJ69 8ZK69	SL SEDAN (BASE W/ M5 TRANS) SL1 SEDAN (UPLEVEL W/ M5 TRANS) SL1 SEDAN (W/ AUTO TRANS) SL2 SEDAN (W/ M5 TRANS) SL2 SEDAN (W/ AUTO TRANS)	SL	37320 37320 37320 37320 37320	
8ZG35 8ZH35 8ZJ35 8ZK35	SW1 WAGON (UPLEVEL W/ M5 TRANS) SW1 WAGON (UPLEVEL W/AUTO TRANS) SW2 WAGON (W/ M5 TRANS) SW2 WAGON (W/ AUTO TRANS)	SW	37330 37330 37330 37330	

ISSUED: 12-18-92

REVISED: ML-RP318

08.13.03.00-7

(ML-RP071)

(1994)

1994 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: R4G1.9VHG1EA

PASSENGER CARS X LIGHT DUTY TRUCKS MEDIUM DUTY VEHICLES

FUEL TYPE: GAS STANDARDS TYPE: TIER 1 VEHICLE TYPE: NA

ENGINE CONFIG: 14

LITER (CID): 1.9 (116) EVAP FAMILY: R4G1035AYPOD

ENGINE: FRONT X MID_ REAR__ DRIVE: FWD_X RWD_ 4WD-FT_ 4WD-PT_

EMISSION CONTROL SYSTEM & SPECIAL FEATURES: EGR, 02S, TWC, MFI, K

DPA: SECTION 08.13.02.00

ENG CODE	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECM/PCM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
1	8ZH27 8ZK69 8ZK35	A4	2750	21022768/ECM 7462, TCM 7457	21006601	25144261
2 (Mc>	8ZH27 8ZK69 8ZK35		2875			
3	8ZG27 8ZJ69 8ZJ35	M5	2750	21022767/ECM 7459	٠	
4 (Mc)	8ZG27 8ZJ69 8ZJ35					

ISSUED: 05-19-93

(ML-RP312)

REVISED:

17-R4G1.9VHG1EA-2 (1994)