State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-190
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; 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 General Motors Corporation exhaust emission control systems are certified as described below for 1981 model-year gasoline-powered passenger cars.

Engine Family	Displacement Cubic Inches (Liters)	Exhaust Emission Control Systems (Special Features)
14F4AEJ	252 (4.1)	Air Injection - Pump Exhaust Gas Recirculation Three Way Catalyst System with Closed Loop

Vehicle Models, Transmissions, Engine Codes and Evaporative Emission Control Families as listed on attachments.

The following are the certification emission values to be listed on the window decal required by California Assembly-Line Test Procedures for 1981 model-year vehicles:

Engine Family	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
14F4AEJ	0.19	2.4	0.6

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles", amended June 26, 1980.

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" (Title 13, California Administrative Code, Section 2290) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That General Motors Corporation has provided to the Executive Officer all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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 4th day of August, 1980.

K. D. Drachand, Chief
Mobile Source Control Division

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corp. Executive Order No. A-6-190 Page 1

Engine Family 14F4AEJ Evaporative Family 1B4S-4

ABBREVIATIONS Engine CID (Liters) 252 (4.1)

Ignition System
CA-Centrifugal Advance
EEC-Electronic Engine Control
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard

Exhaust Emissions Control System
AIP-Air Injection-Pump
AIV-Air Injection-Valve
CL-Closed Loop
EGR-Exhaust Gas Recirculation
EM-Engine Modification
OC-Oxidation Catalyst System
TR-Thermal Reactor
TWC-Three Way Catalyst System

Special Features
CCV-Combustion Chamber Valve
CFI-Central Fuel Injection
DI-Diesel Injection
EFI-Electronic Fuel Injection
MFI-Mechanical Fuel Injection
TC-Turbocharged

Fuel System
CFI, DI, EFI, MFI
nV-nVenturi Carburetor
VV-Variable Venturi

Division	Basic Body	Trim	Body Type	
3				Oldsmobile
	C	X	37	Ninety Eight Regency Coupe
		X	69	Ninety Eight Regency Sedan
		V	69	Ninety Eight Luxury Sedan
	E	Z	57	Toronado Brougham Coupe
4				Buick
	B	N	37	LeSabre Coupe
		P	37	LeSabre Limited Coupe
		N	69	LeSabre Sedan
		P	69	LeSabre Limited Sedan
	C	X	37	Electra Limited Coupe
		W	37	Electra Park Avenue Coupe
		X	69	Electra Limited Sedan
		W	69	Electra Park Avenue Sedan
	E	Z	57	Riviera "Luxury"
		Y	57	Riviera "S" Type
6				Cadillac
	C	B	47	Brougham Coupe
		D	47	Coupe DeVille
		B	69	Brougham Sedan
		D	69	Sedan DeVille
	E	L	57	Eldorado
	K	S	69	Seville

Issued: 080480. Oldsmobile models added by RC 14-47, included in original certification 080480.

2.0. Bmp

AIR RESOURCES BOARD 1981 SUPPLEMENTAL DATA SHEET - GM FORMAT
Gasoline-fueled Passenger Car

Manufacturer: GENERAL MOTORS CORPORATION Executive Order No. A-6-190 Pg. 2

Engine Family 14F4AEJ Engine CID 252 Transm. _____

Exhaust Emission Control System AIP-CL-EGR-TWC

Eng. Code	Air Cond.	Electron. Control Module Part No.	Fuel System 4V Carb. Part No.	EGR Valve Part No.	Test Wt. Class	Divisions	Basic Body	Trim	Body Type	Trans-mission	Tune-up Label Code	Rev. Notes
1	W	Delco Electron-ics 16016614, 16020764	Rochester 17081245	17075653	4000	4 4	B B		37 69	A3	BFD	B E
					4250	4 4	C C		37 69			
2	W/O		17081247, 17081245		4000	4 4	B B		37 69			C
3	W	16016604, 16020784	17081248	17075654	4250	3 4 3 4 6 6	C C C C		37 69 47 69	A4	BFB	A AE
4	W/O		17081249, 17081248		4000	4 4	B B		37 69			C
5,5A	W	16016494	17081289	17075655	4000	3 4 6 6	E E K		57 57 69	A3	BFG	AD

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model, equipment and frontal area.

Date of Issue: 080480. Revisions: A. Models 3C37,3C69,3E57 added by RC 14-47, included in original certification 080480. B. ECM column was Ign. Syst. column (format updated); C. Opt. Carb. added by RC 14-202, on 010881. D. EC 5A added by RC14-212, on 011481. E. Opt. ECM's 16020764 & 84 added by RC 14-245, on 040781.