State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-220
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-45-3, and G-45-4;

IT IS ORDERED AND RESOLVED: That 1982 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars.

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)
C4G4.1W4AEA2	252	(4.1)	Air Injection - Pump Exhaust Gas Recirculation Three-Way Catalyst System Closed Loop

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

The following are the emission standards for this engine family to be listed on the window decal required by California Assembly-Line Test Procedures for 1982 model-year vehicles:

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.39	7.0	0.7

The following are the certification emission values for this engine family:

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.22	3.3	0.7

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".

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 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the Executive Officer has been provided 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 in El Monte, California this 12th day of August, 1981.

K. D. Drachand, Chief
Mobile Source Control Division

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corp. Executive Order No. A-6-220 Page 1

Engine Family C4G4.1W4AEA2 Evaporative Family 2B4-4C

Engine CID (Liters) 252 (4.1)

ABBREVIATIONS

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
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
MFI-Mechanical Fuel Injection
TC-Turbocharged

Fuel System
CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor
VV-Variable Venturi

Division	Basic Body	Trim	Body Type	
2				PONTIAC
	G	N	35	Bonneville Model G Wagon
		J	37	Grand Prix
		K	37	Grand Prix LJ
		P	37	Grand Prix Brougham
		N	69	Bonneville Model G Sedan
		R	69	Bonneville Model G Brougham Sedan
3				OLDSMOBILE
	C	X	37	Ninety Eight Regency Coupe
		X	69	Ninety Eight Regency Sedan
		W	69	Ninety Eight Regency Brougham Sedan
	E	Z	57	Toronado Brougham Coupe

Division	Basic Body	Trim	Body Type	
4				BUICK
	B	N	37	LeSabre Custom Coupe
		P	37	LeSabre Limited Coupe
		N	69	LeSabre Custom 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	Y	57	Riviera "T-Type" Coupe
		Z	57	Riviera "Luxury" Coupe
		Z	67	Riviera Convertible Coupe
	G	J	35	Regal Estate Wagon
		J	47	Regal Coupe
		M	47	Regal Limited Coupe
		J	69	Regal Sedan
		M	69	Regal Limited Sedan

DRIVE SYSTEM: Front Wheel: E & K bodies.
Rear Wheel: B, C, G bodies.

ISSUED: 081381. 4EZ67 model added by RC 24-259, on 112781.

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Manufacturer General Motors Corp. Executive Order No. A-6-220 Page 2

Engine Family C4G4.1W4AEA2 Evaporative Family 2B4-4C

Engine CID (Liters) 252 (4.1)

Division	Basic Body	Trim	Body 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: 081381.

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
GASOLINE-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-220 Page 3

Engine Family C4G4.1W4AEA2 Exhaust Emission Control System AIP, EGR, TWC, CL

ENG. CID	ENG. CODE	AIR COND	ECM PART NO.	4V CARB PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
252	1,1A	W/WO	16017164	17082245	17082722	4000	4	B		37	A-3	GFE	A
				17082265			4	B		69			K
	2		16017184	17082246	17082714	4000	4	B		37	A-4		
				17082266			4	B		69			K
	2A		16025234			4250	34	C		37			E
							6	C		47			
							346	C		69			
	4,4A,		16017114	17082248	17082720	3625	4	G	J	47	A-3	GFB	A
	4B,4C		16025534	17082268			4	G	J	69			BFK
						3750	4	G		35			
							2	G		37			
							4	G	M	47			
	4D,4E,						2	G		69			C
	4F,4G						4	G	M	69			D
						3875	2	G		35			G
	5	Y	16017214	17082247	17082723	4000	346	E		57	A-4	GFI	J
			16025544	17082298									FJ
				17082267									K
						4250	4	E		67			H
							6	K		69			

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.

ISSUED: 081381

REVISIONS: A. EC 1A, 4A included in original certification per RC 24-58. B. EC 4B, 4C included in original certification per RC 24-60 on 081381. C. EC 4D, 4E added by RC 24-93 on 081981. D. EC 4F and 4G added by RC 24-152 on 091781. E. EC 2A added by RC 24-185 on 101581. F. Optional ECMs added by RC 24-250 on 112581. G. 2G35 was 3750 before RC 24-257, approved 112781. H. 4E67 added by RC 24-259 on 112781. J. Carburetor flow gates corrected to production intent by RC 24-282 on 121081. K. Optional carburetor added by RC 24-373 on 021282.