State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-511
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 1991 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family: M2G3.8W8XEB8 Displacement: 3.8 Liters (231 Cu. In.)

Exhaust Emission Control Systems (Special Features):

Three-Way Catalyst
Oxygen Sensor
Exhaust Gas Recirculation
Sequential Multipoint Electronic Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Hydrocarbons (Grams per Mile)	Carbon Monoxide (Grams per Mile)	Nitrogen Oxides (Grams per Mile)
0.41	7.0	0.4

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)
0.17	5.2	0.2

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 Code of Regulations, 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 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" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) 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 (California Health and Safety Code Section 43205).

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 22nd day of March, 1990.

K. D. Drachand, Chief
Mobile Source Division

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16.03.00.00

EXECUTIVE ORDER INFORMATION

ENGINE FAMILY..... M2G3.8W8XEB8

EVAPORATIVE FAMILY..... MBOP-2E

CARLINES TO BE COVERED:

CARLINE NAME	CARLINE CODE
LESABRE	08030
DELTA 88 ROYALE	29025
BONNEVILLE	33045

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E.O. #A-6-511

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

A - 6000, Cutlass Ciera, Cutlass Cruiser, Century
B - Caprice, Custom Cruiser, Roadmaster Wagon, Coachbuilder Wagon
C - Ninety-Eight, Touring, Park Avenue, DeVille, Fleetwood, Commercial Chassis
D - Brougham
E - Toronado, Riviera, Eldorado, Reatta, Trofeo
F - Camaro, Firebird, Trans Am
H - Bonneville, Eighty-Eight, LeSabre
J - Cavalier, Sunbird
K - Seville
L - Corsica, Beretta
N - Grand Am, Cutlass Calais, Skylark
T - Lemans
V - Allante
W - Grand Prix, Regal, Cutlass Supreme, Lumina
Y - Corvette
Z - Saturn Coupe/Sedan

Digit 3 - Trim Level

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

Digits 4 & 5 - Body Style

07 - 2Dr Sport Coupe
08 - 2Dr Hatchback Coupe
19 - 4Dr Sedan
27 - 2Dr (Notchback Coupe)
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
87 - 2Dr Hatchback Coupe
90 - Commericial Chassis
97 - 2Dr Hardtop Coupe

ISSUED: 03-08-90 REV. NO.:

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E.O. #A-6-511

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: M2G3.8W8XEB8

PASSENGER CARS X LIGHT DUTY TRUCKS___ MEDIUM DUTY VEHICLES___ GAS X DIESEL___

ENGINE TYPE: V6 LITER (CID): 3.8 (231) EVAP FAMILY: MBOP-2E

EMISSION CONTROL SYSTEM: EGR/TWC/O2S (SMPI)

ENGINE: FRONT X MID___ REAR___ DRIVE: FWD X RWD___ 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS: NOx - .4 DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
11	2HX69 3HN37 3HN69 3HY37 3HY69 4HP37 4HP69 4HR37 4HR69	A4	3625	16147994/ R027994	17090077, 17091144	25100635
11A				16155654/ R105654		
12	2HZ69 3HN37 3HN69 3HY37 3HY69 4HP37 4HP69 4HR37 4HR69		3750 3625	16148014/ R028014		
12A				16155664/ R105664		
13	2HY69		3875	16148034/ R028034	17089099, 17090077, 17091144	
13A				16155694/ R105694		

ISSUED: 03-08-90 REV. NO.: 001, 002

ATTACHMENT I

TEST HORSEPOWER VALUES

Body Style	Test Weight Classes	50mph Road Load Hp	without.AC Dyno Hp	without.AC Coast Down Time	.with..AC. Dyno Hp	.with..AC. Coast Down Time	CD, CA or FA
***** H BODY (FWD) *****							
OLDSMOBILE DELTA 88 (3H_37,3H_69) BUICK LESABRE (4H_37,4H_69)							
w/P205/75R14 ALS	0-3625	12.58	6.6	17.75	7.3	16.89	CA
w/P205/70R15 ALS	0-3625	12.39	6.5	18.02	7.1	17.13	CA
w/P215/65R15 AL3	0-3625	14.04	6.4	15.96	7.0	15.27	CA
PONTIAC BONNEVILLE LE (2HX69)							
w/P205/75R14 ALS	0-3625	12.74	7.1	17.52	7.8	16.62	CA
w/P215/65R15 AL2	3750 Only	13.31	6.3	17.33	6.9	16.55	CA
w/P215/65R15 AL2	0-3625	13.18	6.3	16.93	6.9	16.15	CA
w/P215/60R16 AL3	3750 Only	14.36	5.8	16.07	6.5	15.41	CA
w/P215/60R16 AL3	0-3625	14.21	5.8	15.70	6.5	15.05	CA
PONTIAC BONNEVILLE SE (2HZ69)							
w/P215/60R16 AL3	3750 Only	14.36	5.8	16.07	6.5	15.41	CA
w/P215/60R16 AL3	0-3625	14.21	5.8	15.70	6.5	15.05	CA
PONTIAC BONNEVILLE SSE (2HY69)							
w/P215/60R16 AL3	3875 Only	14.90	5.9	16.07	6.5	15.49	CA
w/P215/60R16 AL3	0-3750	14.86	5.9	15.61	6.5	14.89	CA