State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER P-6-33
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 1990 model-year General Motors Corporation federally-certified emission control systems are certified for sale in California as described below for gasoline-powered-passenger cars:

Engine Family: L2G4.5V8X2W1 Displacement: 4.5 Liters (273 Inches^3)

Equipped with the following exhaust emission control systems:

Oxygen Sensor
Three-Way Catalyst
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	3.4	1.0

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)
0.13	1.5	0.6

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 "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided evidence of federal certification of vehicle models listed in the attachments which are not available as California-certified models.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate that the vehicle manufacturer has sufficient emissions credits for its estimated California sales of federally-certified 1990 model-year vehicles using the "Guidelines for Certification of 1983 and Subsequent Model-Year Federally Certified Light-Duty Motor Vehicles For Sale in California" (Title 13, California Code of Regulations, Section 1960.5).

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 regulations (Title 13, California Code of Regulations, Section 2035 and 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 1st day of March, 1989.

K. D. Drachand, Chief
Mobile Source Division

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SUPPLEMENTAL DATA AND CERTIFICATION REVIEW SHEETS

Section and Page No.	Rev. No. or Date	Item
17-L2G4.5V8X2W1-Index 1A	003	Table of Contents
17-L2G4.5V8X2W1-1A	12-12-88	Supplemental Data Sheet
17-L2G4.5V8X2W1-2A	003	Supplemental Data Sheet
17-L2G4.5V8X2W1-3A	12-12-88	Certification Review Sheet

NOTES:

(1) Please refer to manufacturer's HP lists (Attachment I) for correct dyno test HP settings based on model and equipment.

(2) If two test weights are listed, the lower weight will be used for testing.

(3) Letter derivative codes are the same as corresponding numeric codes except as indicated.

ISSUED: 12-12-88 REV. NO.: 001 (RC L2-006)
002 (RC L2-035)
003 (RC L2-036)

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E.O. # P-6-33

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

Digit 2 - Body Designation

A-Celebrity, 6000, Cutlass Ciera, Cutlass Cruiser, Century
B-Caprice, Safari Wagon, Custom Cruiser, LeSabre/Electra Wagon, Coachbuilder Wagon
C-Ninety-Eight, Touring, Electra, DeVille, Fleetwood, Commercial Chassis
D-Brougham
E-Toronado, Riviera, Eldorado, Reatta
F-Camaro, Firebird, Trans Am
H-Bonneville, Eighty-Eight, LeSabre
J-Cavalier, Sunbird, Skyhawk
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-Commercial Chassis

Digit 3 Trim Level

B, C, D, E, F,
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-Dr Hardtop Coupe
67-2Dr Convertible Coupe
68-4Dr Hatchback Sedan
69-4Dr (Notchback) Sedan
87-2Dr Hatchback Coupe
90-Commercial Chassis
97-2Dr Hardtop Coupe

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E.O. # P-6-33

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: L2G4.5V8X2W1

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

ENGINE TYPE: V8 LITER (CID): 4.5 (273) EVAP FAMILY: LBO-2A

EMISSION CONTROL SYSTEM: TWC, O2S, (SMPI)

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

CERTIFICATION STANDARDS: NOx - 1.0 (AB965) DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE: A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
1	6VR67	A4	3875	16131366/ 3031	NA	25104722
1A				16131366/ 2006		
1B				16131366/ 2008		
1C	6VS67 6VR67		3750 3875	16131366/ 2010		
1D				16151466/ AUNX		

ISSUED: 12-12-88 REV. NO.: 001, 002, 003, 004, 005

17-L2G4.5V8X2W1-2A
(1990)

17-X2W1

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
***** N BODY (FWD) (continued) *****							
PONTIAC GRAND AM (2NE27,2NE69)							
OLDSMOBILE CALAIS (3N_27,3N_69)							
BUICK SKYLARK (4N_27,4N_69)							
w/man. trans & P215/60R14 AL3	0-3125	11.77	5.5	16.44	6.0	15.80	CA
w/auto trans & P215/60R14 AL3	3250 Only	12.34	5.5	16.17	6.0	15.60	CA
w/auto trans & P215/60R14 AL3	0-3125	12.27	5.5	15.77	6.0	15.18	CA
w/man. trans & P205/55R16 AL3	0-3250	11.86	5.4	16.83	5.9	16.18	CA
w/auto trans & P205/55R16 AL3	0-3250	12.36	5.4	16.15	5.9	15.55	CA
***** T BODY (FWD) *****							
PONTIAC LEMANS (2T_08,2T_19)							
w/man. trans & P175/70R13 ALS	0-2500	9.26	5.8	16.71	6.4	15.83	CA
w/auto trans & P175/70R13 ALS	0-2625	9.95	6.0	16.36	6.6	15.44	CD
w/man. trans & 185/60HR14	2750 Only	11.25	5.9	15.11	6.4	14.39	CA
w/man. trans & 185/60HR14	2625 Only	11.16	5.9	14.55	6.4	13.86	CA
w/auto trans & 185/60HR14	2750 Only	11.95	5.9	14.22	6.4	13.59	CA
w/auto trans & 185/60HR14	2625 Only	11.86	5.9	13.69	6.4	13.08	CA
***** V BODY (FWD) *****							
CADILLAC ALLANTE (6VR67)							
w/P225/55VR16 HW4	0-3875	14.75	5.7	16.23	6.3	15.65	CD
***** W BODY (FWD) *****							
PONTIAC GRAND PRIX (2W_37)							
OLDSMOBILE CUTLASS SUPREME (3W_47)							
BUICK REGAL (4W_57)							
man. tran & (P195/75&P205/70)R14	3625 Only	10.84	5.1	20.58	5.6	19.67	CA
man. tran & (P195/75&P205/70)R14	0-3500	10.60	5.1	20.37	5.6	19.57	CA
auto tran & (P195/75&P205/70)R14	3625 Only	11.34	5.1	19.67	5.6	18.84	CA