State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER P-6-37
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: L1G5.7V8NTA2 Displacement: 5.7 Liters (350 Inches^3)
5.0 Liters (305 Inches^3)

Equipped with the following exhaust emission control systems:

Secondary Air Injection
Exhaust Gas Recirculation
Oxygen Sensor
Three-Way Catalyst + Oxidation Catalyst
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)
0.26	1.2	0.9

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 26th day of April, 1989.

K. D. Drachand, Chief
Mobile Source Division

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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

ISSUED: 02-21-89 REV. NO.:

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AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: L1G5.7V8NTA2

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

ENGINE TYPE: V8 LITER (CID): 5.0L (305) EVAP FAMILY: LBO-1A

EMISSION CONTROL SYSTEM: AIR/EGR/TWC+OC/O2S (MPI)

ENGINE: FRONT X MID___ REAR___ DRIVE: FWD___ RWD X 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS: 1.0 NOx 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	1FP87 1FP67	A4	3750 3875	16125151/ ANJB	17090106	25100541
1A				16145581/ ATNY		
3	2FS87 2FW87		3750	16125121/ ANHY		
3A				16145581/ ATNY		
5	1FP87 1FP67	M5	3625 3750	16125191/. ANJH	17090104	
5A				16145561/ ATNW		
6	1FP67			16140521/ ASNH		
7	1FP87			16125201/ ANJJ	17090105	25103415 25103417
7A				16145571/ ATNX		

ISSUED: 02-21-89 REV. NO.: 001

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AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: L1G5.7V8NTA2

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

ENGINE TYPE: V8 LITER (CID): 5.7L (350) EVAP FAMILY: LBO-1A

EMISSION CONTROL SYSTEM: AIR/EGR/TWC+OC/O2S (MPI)

ENGINE: FRONT X MID___ REAR___ DRIVE: FWD___ RWD X 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS: 1.0 NOx 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.
8	1FP87 1FP67	M5	3625 3750	16145561/ ATNW	17090104	25103415 25103417
9	2FS87 2FW87			16125241/ ANJR		25100541
9A				16145561/ ATNW		
10	2FS87 2FW87					25103415 25103417
11	2FS87 2FW87			16125251/ ANJS	17090105	
11A				16145571/ ATNX		
12	1FP87					25100541
13	2FS87 2FW87					

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

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EMISSION CONTROL SYSTEM: AIR/EGR/TWC+OC/O2S (MPI)

ENGINE: FRONT X MID___ REAR___ DRIVE: FWD___ RWD X 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS: 1.0 NOx 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.
21	1FP87	A4	3750	16125171/ ANJD	17090107	25100541
22	1FP87					25103415 25103417
23	1FP87			16125181/ ANJF		25100541
24	1FP87					25103415 25103417
27	2FW87 2FS87			16082112/ AKJH		25100541
28	2FW87 2FS87					25103415 25103417
29	2FS87 2FW87			16125141/ ANJA		25100541
30	2FS87 2FW87					25103415 25103417
31	2FS87 2FW87			16125181/ ANJF		25100541
32	2FS87 2FW87					25103415 25103417

ISSUED: 001 REV. NO.:

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
***** F BODY (RWD) *****							
CHEVROLET CAMARO (1F_67) - CONVERTIBLE							
w/P215/65R15 AL2	0-3875	12.63	7.5	18.91	8.3	17.85	CA
w/P215/65R15 HWY	0-3875	12.57	7.3	19.07	8.1	18.04	CA
w/P245/50ZR16 HW4	0-3875	13.37	7.4	17.98	8.2	17.04	CA
CHEVROLET CAMARO (1F_87) PONTIAC FIREBIRD (2FS87) & TRANS AM (2FW87)							
w/P215/65R15 AL2	3875 Only	12.19	7.0	19.59	7.7	18.51	CA
w/P215/65R15 AL2	3625-3750	12.00	7.0	19.26	7.7	18.19	CA
w/P215/65R15 AL2	0-3500	11.43	6.4	18.90	7.1	17.89	CA
w/P215/65R15 HWY	3875 Only	12.13	6.9	19.76	7.6	18.69	CA
w/P215/65R15 HWY	0-3750	11.88	6.9	19.54	7.6	18.48	CD
w/P245/50ZR16 HW4	3875 Only	12.93	7.0	18.59	7.7	17.64	CA
w/P245/50ZR16 HW4	0-3750	12.87	7.0	18.09	7.7	17.17	CA
***** 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/P215/65R15 AL2	0-3625	13.02	5.8	17.13	6.4	16.40	CA
w/P215/65R15 AL3	0-3625	14.04	6.4	15.96	7.0	15.27	CA
PONTIAC BONNEVILLE (2HX69,2HZ69)							
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/P215/65R15 AL3	0-3625	14.04	6.4	15.96	7.0	15.27	CA

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CERTIFICATION REVIEW SHEET
EXHAUST/EVAPORATIVE SYSTEM & FILL PIPE SPECIFICATION COMPLIANCE

Veh ID	Code (Displ)	Trans	Final Drive Ratio	ETW	DPA	MPG City/Hwy	Test Loc	PROJECTED EMISSIONS(1) HC	CO	NOx	Hwy NOx	50K Evap or Part(2)
C19F013	6 (305)	M5	3.08	3750	8.2	16.0/30.6	VEL	.26	.88	.68	.81	.44
C19F013	6 (305)	M5	3.08	3750	8.2	17.6/30.3	EPA	.26	1.1	.67	.77	.22
C91F015	1 (305)	A4	2.73	3875	8.2	17.4/29.3	VEL	.25	1.2	.86	1.1	--

(1) The emis data vehicle/s above comply with stds of	.41	3.4	1.0	NA	2.0
and include deterioration factors of	1.000	1.000	1.061		0.0

(2) Evaporative DF is the average of Vehicle DF 0.00 and Bench DF 0.01

Remarks: _____

Application Processed by Karl Sime Date 3.10.89 Reviewed by _____ Date _____

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17-L1G5.7V8NTA2-5
(1990)