State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-715 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-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

A - 7

Engine Family: TGM4.6VJGFEL Displacement: 4.0 Liters (240 Cubic Inches) 4.6 Liters (280 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation Three Way Catalytic Converter Dual Heated Oxygen Sensors Heated Oxygen Sensors (Two) Sequential Multiport Fuel Injection

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

The certification exhaust emission standards (alternative in-use compliance standards in parentheses) for this engine family in grams per mile are:

	Non-Methane	Carbon	Nitrogen	Carbon	
<u>Miles</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20⁰F)</u>	
50,000	0.25 (0.32)	3.4 (5.2)	0.4 (n/a)	10.0 (n/a)	
100,000	0.31 (n/a)	4.2 (n/a)	0.6 (n/a)	n/a	

The certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Carbon <u>Monoxide (20⁰F)</u>	
50,000	0.15	1.7	0.2	6.5	
100,000	0.20	2.4	0.2	n/a	

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth 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 under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That, based on a separate compliance plan submitted by the vehicle manufacturer, the listed vehicle models are permitted alternative in-use compliance as set forth 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 submitted alternative in-use compliance plan satisfies the requirement that a maximum of 20 percent of the manufacturer's projected sales of 1996 model-year California-certified passenger cars and light-duty trucks will be subject to alternative in-use compliance as stipulated in the above-referenced standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model 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" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, 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" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) 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 (Title 13, California Code of Regulations, Section 2035 et seq.).

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 <u>S</u> day of May, 1995.

R. **B**. Summerfield Assistant Division Chief Mobile Source Division

(FOR CARB USE ONLY)

E.O. #A-6-715

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET GASOLINE-FUELED PASSENGER CARS

VEHICLE MODELS:

1 J C 3 7 (EXAMPLE)

<u>Digit 1 - Selling Division</u>

- 1 Chevrolet
- 2 Pontiac
- 3 Oldsmobile
- 4 Buick
- 6 Cadillac
- 8 Saturn

Digit 2 - Body Designation

- Cutlass Ciera, Cutlass Cruiser, Century, Century Wagon Α.
- Caprice, Custom Cruiser, Roadmaster Wagon, Coachbuilder Wagon, В Roadmaster
- С - Ninety-Eight, Park Avenue
- D - Fleetwood, Limousine, Hearse/Coachbuilder
- E - Eldorado F
 - Camaro, Firebird, Trans Am
- G - Riviera, Aurora
- Bonneville, Eighty-Eight, LeSabre Cavalier, Sunfire Η
- J
- Κ - Seville
- Ksp Concours, Deville
- Corsica, Beretta L
- N
- Grand Am, Cutlass Calais, Skylark Grand Prix, Regal, Cutlass Supreme, Lumina, Monte Carlo W
- Y - Corvette
- Ζ - Saturn Coupe/Sedan

Digit 3 - Trim Level

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

Digits 4 & 5 - Body Style

07	-	2Dr	Sport Coupe	57	-	2Dr Hardtop Coupe
80	-	2Dr	Hatchback Coupe			2Dr Convertible Coupe
19	-	4Dr	Sedan			4Dr Hatchback Sedan
27	-	2Dr	(Notchback) Coupe			4Dr (Notchback) Sedan
35	-	4Dr	Station Wagon			2Dr Hatchback Coupe
37	-	2Dr	Hardtop Coupe			Commercial Chassis
47	-	2Dr				2Dr Hardtop Coupe
				-		

ISSUED: ML-TP032 **REVISED**:

17-TGM4.6VJGFEL-1

E.O. #A-6-715

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

ENGINE FAMILY: TGM4.6VJGFEL MANUFACTURER: GENERAL MOTORS CORPORATION EVAPORATIVE FAMILY: TGM1089AYPAA USEFUL LIFE WITH R/L____ EVAP STD: 50K X XH STD: TIER-0____ TIER-1_X__ TLEV____ LEV____ ULEV____ ZEV___; EPA TIER-0____ TIER-1 X MDV2 MDV4____ MDV5____ VEH CLASS(ES): PC_X__LDT1___LDT2____MDV1____ MDV3 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA OR 40 CFR 86.113-90 DIESEL: 13 CCR 2282 EXH CERT FUEL(S): INDO PH2<u>X</u> CNG____LPG ___ OR -94 ____ OTHER (SPECIFY) M85 DEDICATED_____ FLEX-FUEL____ DUAL-FUEL____ GASOLINE_X___DIESEL_____M85_ FUEL TYPE(S): CNG____ LNG___ LPG___ OTHER (SPECIFY)_____ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA HYBRID: TYPE A B_ C___ DISPLACEMENT: 4.6 LITERS 280 CUBIC INCHES ENGINE CONFIGURATION: V8 4WD-PT___ RWD • 4WD-FT ____ DRIVE: FWD X_ MID REAR ENGINE: FRONT X EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: EGR-TWC-SFI-2H02S+(2) RLHP/DPA: SECTION 08.13.02.00 FGR IGN SYSTEM EQUIV. TRANS TYPE: (LOC)CATALYST (PCME/PROM) SYSTEM TEST VEH MODELS A-AUTO ENG PART NO. CALIB/PART NO. PART NO. WEIGHT CODE M-MAN (SEE PAGE 1) (NW) 25161559 17094028 4250 16216546/BNXX A4/2 6KY69 1.1A 6ET57 16229206/BRYR -18 16229316/16214848 ,Ĉ 1E 16233286/16214848 16234626/16214848 1F 16216556/BNXY 2.2A 6ET57 6KY69 6KF69 16229216/BRYS 2B 2C 2E 2F 16229326/16214848 16233296/16214848 16234636/16214848 4000 16216526/BNXU A4/1 3 6EL57 4250 6KS69 6KD69 16229186/BRYN 3A 16229306/16214848 3B 16233276/16214848 3D 16234616/16214848 3E CARLINE CODE CARLINE NAME 10005 SEVILLE 10020 ELDORADO 10010 DEVILLE ML-TR001, ML-TR002, ML-TR005, ML-TR029, ML-TR064. SSUED: ML-TP032 REVISED: ML-TR093 17-TGM4.6VJGFEL-2

E.O. #A-6-715

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM4.6VJGFEL EVAP STD: 50K<u>X</u> USEFUL LIFE WITH R/L___ EVAPORATIVE FAMILY: TGM1070AYPAA XH STD: TIER-0____ TIER-1_X_ TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1_X_ MDV2 VEH CLASS(ES): PC_X_LDT1___LDT2___MDV1___ MDV5 MDV3 MDV4 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA DIESEL: 13 CCR 2282____ OR 40 CFR 86.113-90____ EXH CERT FUEL(S): INDO ____ PH2_X___ CNG LPG OR -94____ M85 OTHER (SPECIFY)____ GASOLINE<u>X</u> DIESEL M85 FUEL TYPE(S): DEDICATED____ FLEX-FUEL___ DUAL-FUEL___ CNG____ LNG___ LPG___ OTHER (SPECIFY)_____ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA HYBRID: TYPE A ___ B ___ C ___ DISPLACEMENT: 4.0 LITERS 240 CUBIC INCHES ENGINE CONFIGURATION: V8 DRIVE: FWD_X_____4WD-FT____ REAR 4WD-PT MID ENGINE: FRONT X EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: EGR-TWC-SFI-2H02S+(2) RLHP/DPA: SECTION 08.13.02.00 EGR TRANS TYPE: EQUIV. IGN SYSTEM (LOC)CATALYST SYSTEM TEST (PCME/PROM) VEH MODELS A-AUTO ENG PART NO. PART NO. WEIGHT CALIB/PART NO. M-MAN CODE (SEE PAGE 1) (NW)25161933 16216646/BNYK 17094028 A4/1 4250 4 3GR29 **Z**∔A 16229286/BRZA 16229336/16214848 4B 16233306/16214848 4D 16234646/16214848 4E 16216656/BNYL 5 3GR29 16229296/BRZB 5A 16229346/16214848 5B 16233316/16214848 5D 16234656/16214848 5E CARLINE CODE CARLINE NAME AURORA 29045 ISSUED: ML-TP032

REVISED: ML-TR002, ML-TR005, ML-TR029, ML-TR064, ML-TR093 17-TGM4.6VJGFEL-3