State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-282
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 1984 model-year General Motors Corporation exhaust emission control systems are certified as described below for diesel-powered passenger cars:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)
E3G4.3E7ZZK2	263	(4.3)	Exhaust Gas Recirculation (Diesel Injection - Prechamber)

Vehicle models, transmissions and engine codes are 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 1983 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles".

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0.41	7.0	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	1.1	0.8

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's 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 at El Monte, California this 1st day of July, 1983.

K. D. Drachand, Chief
Mobile Source Control Division

Z.O.

STATE OF CALIFORNIA—RESOURCES AGENCY

GEORGE DEUKMEJIAN, Governor

AIR RESOURCES BOARD
HAAGEN-SMIT LABORATORY
9528 TELSTAR AVENUE
ONTE 91731
NE: (213) 575-6800

JUL 1 1983

Reference No. C-83-065

Attached → EO 6-282

Mr. T. M. Fisher, Director
Automotive Emission Control
Environmental Activities Staff
General Motors Corporation
GM Technical Center
Warren, Michigan 48090

Dear Mr. Fisher:

Our Executive Order (E.O.) A-6-282 certifies GM diesel engine family E3G4.3E7ZZK2 for California sale in model-year 1984. However, in our technical judgment, there is still a problem in the combustion timing system of the engine which needs attention.

We are issuing the E.O. so as not to unreasonably curtail GM's California sales of diesel-fueled cars. We request that, during the next six months, GM take corrective action and/or provide information as follows:

1. Revise design of injection pump adapter installation so as to eliminate the possibility of up to 2.2° of adapter rotation relative to the engine block, as described in GM letter ML-4E048, dated April 6, 1983.

2. Provide sufficient details about the redesign of the tachometer probe holder and the related improved manufacturing process, as described in GM letter ML-4E025, dated February 15, 1983, to demonstrate resolution of the problems of loosening and cracking.

3. Provide results of bench and vehicle testing of the Diesel Electronic Controller (DEC) performed since GM letter ML-4E051, of April 11, 1983.

If the above items are not resolved to our satisfaction within six months of the E.O. approval date, we may decertify this engine family halfway through the model-year.

Sincerely,

K. D. Drachand, Chief
Mobile Source Control Division

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation Executive Order No. A-6-282 Page 1

Engine Family E3G4.3E7ZZK2 Evaporative Family NA

Engine CID (Liters) 263 (4.3)

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

Headings
AIR COND-Air Conditioning
BB-Basic Body
BT-Body Type
DI-Diesel Injection
DIN-Diesel Injector Nozzles
DIV-Division
ECM-Electronic Control Module
ETW-Equivalent Test Weight
TLC-Tune-Up Label Code
TNS-Transmission
TM-Trim

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

Special Features
CCV-Combustion Chamber Valve
CFI-Central Fuel Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
MFI-Mechanical Fuel Injection
TC-Turbocharged
TBI-Throttle Body Injection

DIV	BB	TM	BT	MODEL NAME
1				CHEVROLET
	A	W	19	Celebrity Sedan
			27	Celebrity Notchback Coupe
			35	Celebrity Wagon
2				PONTIAC
	A	F	19	6000 Sedan
			27	6000 Coupe
			35	6000 Wagon
		G	19	6000 LE Sedan
			27	6000 LE Coupe
			35	6000 LE Wagon
		H	19	6000 STE Sedan
3				OLDSMOBILE
	A	J	19	Cutlass Ciera LS Sedan
			27	Cutlass Ciera LS Coupe
			35	Cutlass Cruiser Wagon
		M	19	Cutlass Ciera Brougham Sedan
			27	Cutlass Ciera Brougham Coupe
	C	W	11	Ninety-Eight Regency Coupe
			69	Ninety-Eight Regency Sedan
		X	11	Ninety-Eight Regency Brougham Coupe
			69	Ninety-Eight Regency Brougham Sedan

DRIVE AXLE: Front Wheel - A and C Body
Rear Wheel - G Body

ISSUED: REVISIONS:

0156W

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer General Motors Corporation Executive Order No. A-6-282 Page 2

Engine Family E3G4.3E7ZZK2 Evaporative Family NA

Engine CID (Liters) 263 (4.3)

DIV	BB	TM	BT	MODEL NAME
3	G	K	47	Cutlass Supreme Calais Coupe
		M	47	Cutlass Supreme Brougham Coupe
			69	Cutlass Supreme Brougham Sedan
		R	47	Cutlass Supreme Coupe
			69	Cutlass Supreme LS Sedan
4				BUICK
	A	H	19	Century Custom Sedan
			27	Century Custom Coupe
			35	Century Custom Wagon
		L	19	Century Limited Sedan
			27	Century Limited Coupe
			35	Century Limited Wagon
	C	W	11	Electra Park Avenue Coupe
			69	Electra Park Avenue Sedan
		X	11	Electra "300" "380" "430" Coupe
			69	Electra "300" "380" "430" Sedan
	G	J	47	Regal Coupe
			69	Regal Sedan
		M	47	Regal Limited Coupe
			69	Regal Limited Sedan
6				CADILLAC
	C	B	69	Fleetwood Sedan
		D	47	Coupe deVille
			69	Sedan deVille

ISSUED:

REVISIONS:

0156W

1984 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
DIESEL-FUELED PASSENGER CARS

Manufacturer General Motors Corporation Executive Order No. A-6-282 Page 3

Engine Family E3G4.3E7ZZK2 Exhaust Emission Control System EGR (DIP)

ENG. CID	ENG. CODE	AIR COND	DI PUMP PART NO.	DIN PART NO.	EGR VALVE PART NO.	ETW	DIV	B B	T M	BT	TNS	TLC	REV. NOTES
263	2	W/WO	22519882	22520376	17083702	3250	3	A		27	A-4	HAC	
						3375	1 34	A		19			A
							2	A	FG	19			
							12 4	A		27			
						3500	2	A	H	19			
							1 3	A		35			
						3625	2	A		35			
							4	A	H	35			
						3750	4	A	L	35			
	3					3625	34	C		11			
							6	C		47			
							3	C		69			
						3750	46	C		69			
	4		22519881			3750	4	G	J	47		HAJ	
						3875	3	G		47			
							4	G	M	47			
							34	G		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:

REVISIONS: A. ETW of model 4AL19 revised from 3500 lbs. to 3375 lbs. on 062283.

0156W/17W