Field

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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-661 Relating to Certification of New Motor Vehicles

FORD MOTOR COMPANY

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 Ford Motor Company 1996 model-year exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

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Engine Family: TFM4.028G1EK Displacement: 4.0 Liters (244 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converters (two) Dual Heated Oxygen Sensors Heated Oxygen Sensor Exhaust Gas Recirculation Sequential Multiport Fuel Injection

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

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

Loaded Vehicle	<u>Miles</u>	Non-Methane	Carbon	Nitrogen	Carbon
<u>Weight(lbs.)</u>		Hydrocarbons	<u>Monoxide</u>	<u>Oxides</u>	Monoxide (20°F)
3751-5750	50,000	0.32	4.4	0.7	12.5
	100,000	0.40	5.5	0.97	n/a

The certification exhaust emission values for this engine family in grams per mile are (The value in parentheses is the actual certification value before rounding off.):

Loaded Vehicle	<u>Miles</u>	Non-Methane	Carbon	Nitrogen	Carbon
<u>Weight(lbs.)</u>		<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Monoxide (20°F)</u>
3751-5750	50,000 100,000	0.12 0.13	1.9	0.1 (0.09) 0.09	7.8 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 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. FORD MOTOR COMPANY

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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 _____ day of August 1995.

A. B. Summerfield Assistant Division Chief Mobile Source Division

E.O.#<u>A-10-661</u>

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: TFM4.028G1EK Engine Code Types: CA_X_49S___50S___ Evaporative Emissions Family: TFM1045AYPBA Exh Std: Tier-0____ Tier-1_X__TLEV____ LEV____ ULEV____ ZEV____ EPA TIER-0____ TIER-1____ Evap Std: 50K<u>X</u> Useful Life with R/L___ In-Use Exh Std: Full In Use____ Alt In Use____ Veh Class(es): PC____ LDT1___ LDT2_X MDV1___ MDV2___ MDV3___ MDV4___ MDV5____ Single Cert Std for Multi-Class Eng Fam: <u>N/A</u> (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4) Exh Cert Fuel(s): Indo X Ph2____ Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94___ M85____ CNG____ LPG____ Other (specicy) Dedicated_ Fuel Type(s): ____ Flex Fuel____ Dual-Fuel____ Gasoline<u>X</u> Diesel_____M85____CNG____LPG____Other (specify)______ Hybrid: Type A____ B___ C___, APU Cycle (eg.., Otto, Diesel, Turbine)_ Engine Config <u>V-6</u> Displacement: <u>4.0L (244)</u> Liters (Cubic Inches) Valves/Cyl: 2 Rated HP: 160 @ 4200 RPM Engine: Front<u>X</u> Mid Rear____ Drive: Fwd____ RWD_X 4WD-FT___ 4WD-PT_X Exhaust Control System and Special Features TWC(2) SFI. 2HO2S. EGR H025 (Use' abbreviations per SAE J1930 SEP91) Engine Code Vehicle Models Trans. Type ETW DPA Ignition EGR Catalytic (also list (if coded see A-Automatic or or (ECM/PCM) System Converter CA/49ST/50ST attachment) M-Manual Test Wt RLHP Part No. Part No. Part No. 557TR15A/N Ranger/Mazda 4x2 M5 F57F-DAA F3DE-AA F57A-BD F37E-CA SC SWB 3750# 11.2 SC SWB 3875 12.3*Ranger/Mazda 4x4 RC LWB 3875 12.0 RC SWB 3875 12.0 RC LWB (Mazda only) 4000# 13.2*RC SWB 3875 13.2*SC SWB (Mazda only) 4250# 12.0 SC SWB 4250 13.2*RC LWB (Ranger only) 3875# 13.2*SC SWB (Ranger only) 4000# 12.0

* with air conditioning

per R/C 4.0-123

E.O.#<u>A-10-661</u>

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Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: TFM4.028G1EK Engine Code Types: CA<u>X</u> 49S____50S____ Evaporative Emissions Family: <u>TFM1045AYPBA</u> Exh Std: Tier-0____ Tier-1_X__ TLEV____ LEV____ ULEV____ ZEV____ EPA TIER-0____ TIER-1___ Evap Std: 50KX Useful Life with R/L___ In-Use Exh Std: Full In Use____ Alt In Use____ Veh Class(es): PC____ LDT1___ LDT2_X_ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___ Single Cert Std for Multi-Class Eng Fam: <u>N/A</u> (specify: N/A, LDT1,MDV1,MDV2,MDV3,MDV4) Exh Cert Fuel(s): Indo<u>X</u> Ph2____ Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94____ M85____ CNG___ LPG___ Other (specicy) Fuel Type(s): Dedicated_ _ Flex Fue1___ Dual-Fuel Gasoline<u>X</u> Diesel____ M85____ CNG____ LPG____ Other (specify)___ Hybrid: Type A____ B____ C___, APU Cycle (eg.., Otto, Diesel, Turbine)___ Engine Config <u>V-6</u> Displacement: <u>4.0L (244)</u> _ Liters (Cubic Inches) Valves/Cyl: <u>2</u> Rated HP: 160 @ 4200 RPM Engine: Front<u>X</u> Mid____ Rear____ Drive: Fwd____ RWD_X___ 4WD-FT____ 4WD-PT_X__ Exhaust Control System and Special Features TWC(2) SFI. 2HO2S. EGR H025 (Use abbreviations per SAE J1930 SEP91) Engine Code Vehicle Models Trans. Type ETW DPA Ignition EGR Catalytic (also list (if coded see A-Automatic or or (ECM/PCM)Converter System CA/49ST/50ST attachment) M-Manual Test Wt RLHP Part No. Part No. Part No. 657TR10A/N Ranger/Mazda 4x2 M5 F57F-DAB F3DE-AA F57A-BD F37E-CA SC SWB 3750# 11.2 SC SWB 3875 12.3* Ranger/Mazda 4x4 RC LWB 3875 12.0 RC SWB 3875 12.0 RC LWB (Mazda only) 4000# 13.2*RC SWB 3875 13.2*SC SWB (Mazda only) 4250# 12.0 SC SWB 4250 13.2* RC LWB (Ranger only) 3875# 13.2*SC SWB (Ranger only) 4000# 12.0

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