File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-716
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 1997 model-year Ford Motor Company exhaust emission control systems are certified as described below for medium-duty vehicles:

Emission Standard Category: Super-Ultra-Low-Emission Vehicle (SULEV)

Fuel Type: Compressed Natural Gas (CNG)

Engine Family: VFM5.468C7FK Displacement: 5.4 Liters (326 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Dual Warm-Up Three Way Catalytic Converters
Dual Three Way Catalytic Converters
Three Way Catalytic Converter
Dual Heated Oxygen Sensors
Sequential Multiport Fuel Injection

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

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

Test Weight (lbs.)	Miles	Non-Methane Organic Gases	Carbon Monoxide	Nitrogen Oxides	Formaldehyde
5751-8500	50,000	0.059	2.5	0.3	0.006
	120,000	0.084	3.7	0.45	0.008

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a reactivity adjustment factor (RAF) for 1997 model-year CNG-fueled medium-duty SULEVs.

BE IT FURTHER RESOLVED: That, as of the date of this order, the Air Resources Board has not proposed or adopted a RAF for medium-duty SULEVs operated on CNG. At the proposal of the manufacturer for the certification of the aforementioned engine family, and based on available data and analysis showing there is a strong likelihood that the RAF for such vehicles will be less than 1.000, the applicable RAF for the listed engine family shall be treated for all purposes relating to this certification as:

Reactivity Adjustment Factor for NMOG Mass Emission: 1.000

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

Test Weight (lbs.)	Miles	Non-Methane Organic Gases	Carbon Monoxide	Nitrogen Oxides	Formaldehyde
5751-8500	50,000	0.008	0.7	0.1	0.0004
	120,000	0.015	0.8	0.22	0.0004

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 and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(5.1) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty vehicles and Engines").

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 4th day of February 1997.

R. B. Summerfield, Chief
Mobile Source Operations Division

E.O.# A-10716

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: VFM5.468C7FK

Evap Standard: 50K N/A Useful Life with R/L _ __ Evap Family: VFM00000GMKZ AH Inlet X

Exhaust Std: Tier 0 _ Tier 1 _ TLEV _ LEV _ ULEV _ SULEV X ; EPA Tier 0 __ Tier 1 __
NMOG Test Proc: Equiv.
Vehicle Class(es): PC _ LDT1 _ LDT2 _ MDV1 _ MDV2 _ MDV3 X MDV4 _ MDV5 _
Service Accum: Mod AMA
Single Cert Std for Multi-Class Eng Fam: N/A (specify N/A, LDT1, MDV1, MDV2, MDV3,MDV4)

Exh Cert Fuel(s): Indo _ Ph2 _ Diesel: 13 CCR 2282 _ or 40 CFR 86.113-90 _ or -94 _
M85 _ CNG X LPG _ Other (specify) _____

Fuel Type(s): Dedicated _ Flex-Fuel _ Dual-Fuel _ Gasoline _ Diesel _ M85 _
CNG X LNG __ LPG __ Other (specify) _____

Hybrid: Type A __ B __ C __, APU Cycle (e.g., Otto, Diesel, Turbine) _____

Engine Config: V-8 Liter (CID): 5.4 (326)

Engine: Front X Mid.__ Rear__ Drive: FWD _ RWD X 4WD-FT _ 4WD-PT _

Exhaust ECS & Special Features: 2WUTWC, 2TWC, TWC, 2HO2S, SFI
(Use abbreviations per SAE J1930, Sep 91)

Engine Code (California)	Vehicle Models	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (PCM) Part No.	EGR System Part No.	Catalyst Part No.
746WR00A	F-250 RKL - NGV	A	6500	14.5	F75F-AGA	N/A	F75A-5G218-KE (CC-RH/LH) F75A-5E214-MD (UB1-RH/LH) F75A-5E212-ACE (UB1-RH/LH) F75A-5E212-ACF(UB1-RH/LH) alt.
746WR00N	F-250 RKL - NGV	A	6500	13.2	"	"	"

ENGINE FAMILY: VFM5.468C7FK

ISSUED: JAN 22 1997
REVISED:

20.09.17.02 - 1

E.O.# A-10-716

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: Ford Motor Company Exhaust Engine Family: VFM5.468C7FK

Evap Standard: 50K N/A Useful Life with R/L __ Evap Family: VFM00000GMKZ Alt. In Use X

Exhaust Std: Tier 0 __ Tier 1 __ TLEV __ LEV __ ULEV __ SULEV X ; EPA Tier 0 __ Tier 1 __

Vehicle Class(es): PC __ LDT1 __ LDT2 __ MDV1 __ MDV2 __ MDV3 X MDV4 __ MDV5 __

Single Cert Std for Multi-Class Eng Fam: N/A (specify N/A, LDT1, MDV1, MDV2, MDV3,MDV4)

Exh Cert Fuel(s): Indo __ Ph2 __ Diesel: 13 CCR 2282 __ or 40 CFR 86.113-90 __ or -94 __
M85 __ CNG X LPG __ Other (specify) _____

Fuel Type(s): Dedicated __ Flex-Fuel __ Dual-Fuel __ Gasoline __ Diesel __ M85 __
CNG X LNG __ LPG __ Other (specify) _____

Hybrid: Type A __ B __ C __, APU Cycle (e.g., Otto, Diesel, Turbine) _____

Engine Config: V-8 Liter (CID): 5.4 (326)

Engine: Front X Mid.__ Rear__ Drive: FWD __ RWD X 4WD-FT __ 4WD-PT __

Exhaust ECS & Special Features: 2WU-TWC/2TWC/TWC/2HO2S/SFI
(Use abbreviations per SAE J1930, Sep 91)

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746WR00N	F-250 RKL - NGV	A	6500	13.2	"	"	"
746WR05A	F-250 RKL - NGV	A	6500	14.5	F75F-AGB	N/A	F75A-5G218-KE (CC-RH/LH) F75A-5E214-MD (UB1-RH/LH) F75A-5E212-ACE (UB1-RH/LH) F75A-5E212-ACF(UB1-RH/LH)*alt*
746WR05N	F-250 RKL - NGV	A	6500	13.2	"	"	"