State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-696
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 passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: VFM4.6V8G2EL Displacement: 4.6 Liters (280 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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

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

Miles	Non-Methane Organic Gases	Carbon Monoxide	Nitrogen Oxides	Formaldehyde	Carbon Monoxide (20°F)
50,000	0.125	3.4	0.4	0.015	10.0
100,000	0.156	4.2	0.6	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.98 RAF for 1997 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane Organic Gases	Carbon Monoxide	Nitrogen Oxides	Formaldehyde	Carbon Monoxide (20°F)
50,000	0.066	1.0	0.1	0.001	7.5
100,000	0.074	1.2	0.1	0.001	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 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 running loss and useful life standards applicable to 1995 and subsequent 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 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 vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit 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 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)(6.2) ("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 16th day of May 1996.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O.# A-10-696

1997AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer: Ford Motor Company Exhaust Engine Family: VFM4.6V8G2EL

Evap Standard: 50K ____ Useful Life with R/L X Evap Family: TFM1090AYMED

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

Vehicle Class(es): PC X LDT1 _ LDT2 _ MDV1 _ MDV2 _ MDV3 _ 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 X Diesel: 13 CCR 2282 _ or 40 CFR 86.113-90 _ or -94 _
M85 _ CNG _ LPG _ Other (specify) _____

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

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

Engine Config: V-8 Liter (CID): 4.6 (280.0)

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

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

Engine Code (California)	Vehicle Models	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (PCM) Part No. -12A650-	EGR System Part No. -9D475/9D477-	Catalyst Part No. -5E212-
718MR00A	FORD AFC (CROWN VICTORIA)	A	4000	8.7*1 9.9*2	F7AF-FA	F6AE-BA/F6AE-AE	F6AC-DA/ F6AC-DB
	MERCURY MFA (GRAND MARQUIS)	A	4000	9.4*1 10.1*2			
718NR00A	FORD AFC	A	4000	8.7*1 9.9*2	F7AF-GA	F6AE-BA/F6AE-AE	F6AC-DA F6AC-DB
	MERCURY MFA	A	4000	9.4*1 10.1*2			
718QR00A 718SR00A	LINCOLN VFC *RIQBCAR) (TOWN CAR)	A	4250	8.6*1 10.5*2 8.6*3	F7AF-CA F7AF-DA	" "	" "
718SR00A	LINCOLN VFL	A	4250	8.6	F7AF-DA	"	"

*1 P215/70R15
*2 P225/60R16
*3 P225/75R15

ENGINE FAMILY: VFM4.6V8G2EL 20.09.17.02 - 1
ISSUED: 5/7/96
REVISED:

E.O.# A-10-696

1997AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer: Ford Motor Company Exhaust Engine Family: **VFM4.6V8G2EL**

Evap Standard: 50K _X_ Useful Life with R/L ____ Evap Family: **VFM1090AYMED**

Exhaust Std: Tier 0 _ Tier 1 _ TLEV _X_ LEV _ ULEV _ ZEV _ ; EPA Tier 0 __ Tier 1 __

Vehicle Class(es): PC _X_ LDT1 _ LDT2 _ MDV1 _ MDV2 _ MDV3 _ 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 _X_ Diesel: 13 CCR 2282 _ or 40 CFR 86.113-90 _ or -94 _
M85 _ CNG _ LPG _ Other (specify) _____

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

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

Engine Config: _V-8_ Liter (CID): _4.6 (280.0)_

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

Exhaust ECS & Special Features: _SFI/2HO2S(2)/EGR/2TWC(2)_
(Use abbreviations per SAE J1930, Sep 91)

Engine Code (California)	Vehicle Models	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (PCM) Part No. -12A650-	EGR System Part No. - 9D475/9D477-	Catalyst Part No. -5E212-
718MR05	FORD AFC	A	4000	8.7[*1] 9.9[*2]	F7AF-FB	F6AE-BA/F6AE-AE	F6AC-DA F6AC-DB
	MERCURY MFA	A	4000	9.4[*1] 10.1[*2]			"
718NR05A	FORD AFC	A	4000	8.7[*1] 9.9[*2]	F7AF-GB	F6AE-BA/F6AE-AE	F6AC-DA F6AC-DB
	MERCURY MFA	A	4000	9.4[*1] 10.1[*2]			
718QR05A 718SR05A	LINCOLN VFC	A	4250	8.6[*1] 10.5[*2] 8.6[3]	F7VF-CB F7VF-DB	" "	" "
718SR05A	**LINCOLN VFL**	**A**	**4250**	**8.6[3]**	**F7VF-DB**	"	"

[*1] P215/70R15
[*2] P225/60R16
[*3] P225/75R15

ENGINE FAMILY: VFM4.6V8G2EL 20.09.17.02 - 2 R/C 4.6-2V-005
ISSUED: 6/10/96
REVISED: 7/1/96, 7/15/96

E.O.# A-10-696

1997AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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

Manufacturer: Ford Motor Company Exhaust Engine Family: **VFM4.6V8G2EL**

Evap Standard: 50K _X_ Useful Life with R/L ____ Evap Family: **VFM1090AYMED**

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

Vehicle Class(es): PC X LDT1 _ LDT2 _ MDV1 _ MDV2 _ MDV3 _ 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 X Diesel: 13 CCR 2282 _ or 40 CFR 86.113-90 _ or -94 _
M85 _ CNG _ LPG _ Other (specify) _____

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

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

Engine Config: V-8 Liter (CID): 4.6 (280.0)

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

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

Engine Code (California)	Vehicle Models	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (PCM) Part No. -12A650-	EGR System Part No. - 9D475/9D477-	Catalyst Part No. -5E212-
718MR06	FORD AFC	A	4000	8.7*1 9.9*2	F7AF-FC	F6AE-BA/F6AE-AE	F6AC-DA F6AC-DB
	MERCURY MFA	A	4000	9.4*1 10.1*2			"
718NR06A	FORD AFC	A	4000	8.7*1 9.9*2	F7AF-GC	F6AE-BA/F6AE-AE	F6AC-DA F6AC-DB
	MERCURY MFA	A	4000	9.4*1 10.1*2			
718QR06A 718SR06A	LINCOLN VFC	A	4250	8.6*1 10.5*2 8.6*3	F7VF-CC F7VF-DC	" "	" "
718SR06A	**LINCOLN VFL**	**A**	**4250**	**8.6*3**	**F7VF-DC**	"	"

*1 P215/70R15
*2 P225/60R16
*3 P225/75R15

ENGINE FAMILY: VFM4.6V8G2EL 20.09.17.02 - 3 R/C 4.6-2V-013
ISSUED: 7/15/96
REVISED:

E.O.# A-10-696

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: FORD MOTOR COMPANY Eng. Family: VFM4.6V8G2EL

Evap Standard: 50K Useful life with R/L X Evaporative Family: VFM1190AYMED

Exhaust Std: Tier 0__Tier1__TLEV X LEV __ULEV__ ZEV__; EPA Tier 0__Tier1__

Vehicle Class(es): PC X LDT1__LDT2__MDV1__MDV2__MDV3__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 X Diesel: 13CCR 2282__or 40CFR86.113.90__or -94
M85__CNG__LPG__Other (specify)_____

Fuel Type(s): Dedicated__Flex-Fuel__Dual-Fuel__Gasoline X Diesel__M85__
CNG__LNG__LPG__Other (specify) _____

Hybrid: Type A__B__C__ , APU Cyle (e.g., Otto, Diesel, Turbine)_____

Engine Config: V-8 Liter (CID): 4.6L (280)

Engine: Front X Mid.__ Rear__ Drive: FWD X RWD__ 4WD-FT__ 4WD-PT__

Exhaust ECS & Special Features:(incl. CARB, MFI) 2TWC(2) /2HO2S(2)/EGR, SFI
(Use abbreviations per SAE J1930 May91)

Engine Code (Cert Std.)	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (PCM) Part No. -12A650-	EGR System Part No. -9D475/9D477-	Catalyst Part No. -5E212-
718MR10A	FORD AFC	A	4000	8.7(1) 9.9(2)	F7AF-FC	F6AE-BA F6AE-AE	F6AC-DA F6AC-DB
	MERCURY MFA	A	4000	9.4(1) 10.1(2)			
718NR10A	FORD AFC	A	4000	8.7(1) 9.9(2)	F7AF-GC	F6AE-BA F6AE-AE	F6AC-DA F6AC-DB
	MERCURY MFA	A	4000	9.4(1) 10.1(2)			
718QR10A 718SR10A	LINCOLN VFC	A	4250	8.6(1) 10.5(2) 8.6(3)	F7VF-CC F7VF-DC		
718SR10A	LINCOLN VFL	A	4250	8.6(3)	F7VF-DC		

(1) P215/70R15
(2) P225/60R16
(3) P225/75R15

E.O.# A-10-696

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: FORD MOTOR COMPANY Eng. Family: VFM4.6V8G2EL

Evap Standard: 50K X Useful life with R/L___ Evaporative Family: VFM1190AYMED

Exhaust Std: Tier 0__Tier1__TLEV X LEV __ULEV__ ZEV__; EPA Tier 0__Tier1__

Vehicle Class(es): PC X LDT1__LDT2__MDV1__MDV2__MDV3__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 X Diesel: 13CCR 2282__or 40CFR86.113.90__or -94
M85__CNG__LPG__Other (specify)_____

Fuel Type(s): Dedicated__Flex-Fuel__Dual-Fuel__Gasoline X Diesel__M85__
CNG__LNG__LPG__Other (specify) _____

Hybrid: Type A__B__C__ , APU Cyle (e.g., Otto, Diesel, Turbine)_____

Engine Config: V-8 Liter (CID): 4.6L (280)

Engine: Front X Mid.__ Rear__ Drive: FWD X RWD__ 4WD-FT__ 4WD-PT__

Exhaust ECS & Special Features:(incl. CARB, MFI) 2TWC(2) / 2HO2S(2)/EGR, SFI
(Use abbreviations per SAE J1930 May91)

Engine Code (Cert Std.)	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW	DPA	Ignition (PCM) Part No. -12A650-	EGR System Part No. -9D475/9D477-	Catalyst Part No. -5E212-
718MR11A	FORD AFC	A	4000	8.7(1) 9.9(2)	F7AF-FE	F6AE-BA F6AE-AE	F6AC-DA F6AC-DB
	MERCURY MFA	A	4000	9.4(1) 10.1(2)			
718NR11A	FORD AFC	A	4000	8.7(1) 9.9(2)	F7AF-GE	F6AE-BA F6AE-AE	F6AC-DA F6AC-DB
	MERCURY MFA	A	4000	9.4(1) 10.1(2)			
718QR11A 718SR11A	LINCOLN VFC	A	4250	8.6(1) 10.5(2) 8.6(3)	F7VF-CE F7VF-DE		
718SR11A	LINCOLN VFL	A	4250	8.6(3)	F7VF-DE		

(1) P215/70R15
(2) P225/60R16
(3) P225/75R15