State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-782
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 1998 model-year Ford Motor Company exhaust emission control systems are certified as described below for medium-duty vehicles:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: WFMXA05.4JGC Displacement: 5.4 Liters (326 Cubic Inches)

Exhaust Emission Control Systems & 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 non-methane organic gases (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) LEV certification exhaust emission standards for this engine family in grams per mile are:

Test Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
5751-8500	50,000	0.195	5.0	0.6	0.022	12.5
	120,000	0.280	7.3	0.9	0.032	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.94

The certification exhaust emission values set forth for NMOG reflect application of a 0.94 RAF for 1998 model-year LEVs. The LEV certification exhaust emission values for this engine family in grams per mile are:

Test Weight (lbs.)	Miles	NMOG	CO	NOx	HCHO	CO (20°F)
5751-8500	50,000	0.080	1.5	0.1	0.001	4.2
	120,000	0.101	2.0	0.3	0.002	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 medium-duty vehicle phase-in 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" (Title 13, California Code of Regulations, Section 1960.1(h)(2)).

BE IT FURTHER RESOLVED: That under the submitted medium-duty vehicle phase-in compliance plan, if the manufacturer incurs "Vehicle Equivalent Debits" for the aforementioned model year due to the manufacturer's failure to produce and deliver for sale in California the equivalent quantity of medium-duty vehicles certified to low-emission vehicle and/or ultra-low-emission vehicle exhaust emission standards required by the above-referenced standards and test procedures, all "Vehicle Equivalent Debits" incurred 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 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 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 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 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 25th day of July 1997.

Raphael Susnowitz

for R. B. Summerfield, Chief
Mobile Source Operations Division

E.O.# A-10-782

1998 MODEL YEAR SUPPLEMENTAL DATA SHEET
EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS
PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: WFMXA05.4JGC

Engine Code Types: CA X 49S___ 50S___

Evap Emissions Family: WFMXE0155B1F/B1G

Exh Std: Tier-0___ Tier-1___ TLEV___ LEV X ULEV___ ZEV___ EPA TIER-0___ TIER-1__
NMOG Test Proc.: Equiv.
Evap Std: 50K___ Useful Life with R/L X, R/L Test Proc: Point Source ORVR: NO
Service Accum: Mod. AMA
Veh 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 X Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94__
M85___ CNG___ LPG___ Other (specify)
Fuel Type(s): Dedicated___ Flex Fuel___ Dual-Fuel___
Gasoline X Diesel___ M85___ CNG___ LPG___ Other (specify)_____
Hybrid: Type A___ B___ C___, APU Cycle (eg.., Otto, Diesel, Turbine)_____

Engine Config V-8 Displacement: 5.4L(326) Liters (Cubic Inches)
Valves/Cyl: 2 Rated HP: 230 @ 4250 RPM
Engine: Front X Mid___ Rear___ Drive: Fwd___ RWD X 4WD-FT___ 4WD-PT X

Exhaust Control System and Special Features 2TWC(2), 2HO2S(2), EGR, SFI,
(Use abbreviations per SAE J1930 SEP91)

Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
846UR00A		A			F85F-YA	F75E-CA	F85A-AA F85A-BA
	Expedition 4x2		6000	*			
	Expedition 4x4		6000	*			
	Navigator 4x2		6000	*			
	Navigator 4x4		6500	*			

* See Section 20.09.17.03

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1998 MODEL YEAR SUPPLEMENTAL DATA SHEET
EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS
PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: WFMXA05.4JGC

Engine Code Types: CA X 49S___ 50S___

Evap Emissions Family: WFMXE0155B1F/B1G

Exh Std: Tier-0___ Tier-1___ TLEV___ LEV X ULEV___ ZEV___ EPA TIER-0___ TIER-1__

Evap Std: 50K___ Useful Life with R/L X R/L Test Proc. Pg Source ORVR- NO

Veh 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 X Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94__
M85___ CNG___ LPG___ Other (specify)
Fuel Type(s): Dedicated___ Flex Fuel___ Dual-Fuel___
Gasoline X Diesel___ M85___ CNG___ LPG___ Other (specify)_____
Hybrid: Type A___ B___ C___, APU Cycle (eg.., Otto, Diesel, Turbine)_____

Engine Config V-8 Displacement: 5.4L(326) Liters (Cubic Inches)
Valves/Cyl: 2 Rated HP: 230 @ 4250 RPM
Engine: Front X Mid___ Rear___ Drive: Fwd___ RWD X 4WD-FT___ 4WD-PT X

Exhaust Control System and Special Features 2 TWC(2) 2 HO2S(2) EGR, SFI, _____
(Use abbreviations per SAE J1930 SEP91)

Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
846UR05A		A			F85F-YB	F75E-CA	F85A-AA F85A-BA
	Expedition 4x2		6000	*			
	Expedition 4x4		6000	*			
	Navigator 4x2		6000	*			
	Navigator 4x4		6500	*			

* See Section 20.09.17.03

E.O.# A-10-782

1998 MODEL YEAR CERTIFICATION REVIEW SHEET
EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS
PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. FORD MOTOR COMPANY Exhaust Engine Family: WFMXA05.4JGC

Engine Code Types: CA X 49S___ 50S___

Evap Emissions Family: WFMXE0155B1F/B1G

Exh Std: Tier-0___ Tier-1___ TLEV___ LEV X ULEV___ ZEV___ EPA TIER-0___ TIER-1__

Evap Std: 50K___ Useful Life with R/L X In-Use Exh Std: Full In Use___ Alt In Use X

Veh 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 X Diesel: 13 CCR 2282___ or 40CFR 86.113-90___ or -94__
M85___ CNG___ LPG___ Other (specify)
Fuel Type(s): Dedicated X Flex Fuel___ Dual-Fuel___
Gasoline X Diesel___ M85___ CNG___ LPG___ Other (specify)_____
Hybrid: Type A___ B___ C___, APU Cycle (eg.., Otto, Diesel, Turbine)_____

Engine Config V-8 Displacement: 5.4L(326) Liters (Cubic Inches)
Valves/Cyl: 2 Rated HP: 230 @ 4250 RPM
Engine: Front X Mid___ Rear___ Drive: Fwd___ RWD X 4WD-FT___ 4WD-PT X

Exhaust Control System and Special Features 2TWC, 2HO2S, EGR, SFI,
(Use abbreviations per SAE J1930 SEP91)

Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A-Automatic M-Manual	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
846UR10A		A			F85F-YC	F75E-CA	F85A-AA F85A-BA
	Expedition 4x2		6000	*			
	Expedition 4x4		6000	*			
	Navigator 4x2		6000	*			
	Navigator 4x4		6500	*			

* See Section 20.09.17.03

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Supplemental Data Sheet DPA Summary

VEHICLE LINE	ETW	< - - - NON - AC CDT	CODE	DPA	- - - > TRLHP (HP)	< - - - A C CDT	CODE	DPA	- - - > TRLHP (HP)
EXPEDITION 4X2	5000	16.12	(C)	12.0	19.12	15.69	(C)	13.2	19.64
(UN93)	5250	17.03	(C)	12.0	19.00	16.17	(C)	13.2	20.01
E4OD $	5500	17.75	(R)	12.0	19.10	16.65	(R)	13.2	20.36
P255/70R16 A/S TIRE $	6000	18.93	(C)	12.0	19.54	17.62	(C)	13.2	20.99
E4OD	5000	15.88	(C)	12.2	19.41	15.09	(C)	13.4	20.42
P255/70R16 A/T TIRE	5250	16.54	(C)	12.2	19.57	15.64	(C)	13.4	20.69
$	5500	17.20	(R)	12.2	19.71	16.19	(R)	13.4	20.94
$	6000	18.51	(C)	12.2	19.98	17.30	(C)	13.4	21.38
EXPEDITION 4X4	5500	14.91	(C)	14.2	22.74	14.06	(C)	15.6	24.11
(UN93) $	6000	15.95	(C)	14.2	23.19	15.06	(C)	15.6	24.56
E4OD $	6500	17.00	(C)	14.2	23.57	16.07	(C)	15.6	24.93
P255/70R16 A/S TIRE									
E4OD	5500	14.79	(C)	14.6	22.92	14.03	(C)	16.0	24.16
P255/70R16 A/T TIRE $	6000	15.84	(C)	14.6	23.35	14.93	(C)	16.0	24.77
$	6500	16.90	(C)	14.6	23.71	15.83	(C)	16.0	25.31
E4OD	5500	14.82	(C)	14.8	22.88	13.89	(C)	16.2	24.41
P265/70R17 A/T TIRE $	6000	15.71	(C)	14.8	23.54	14.82	(C)	16.2	24.96
$	6500	16.59	(C)	14.8	24.15	15.75	(C)	16.2	25.44
NAVIGATOR 4x2	5500	16.51	(C)	13.8	20.53	15.50	(C)	15.2	21.87
(UN173) $	6000	17.56	(C)	13.8	21.06	16.34	(C)	15.2	22.63
E4OD									
P245/75R16 A/S TIRE									
NAVIGATOR 4x4	6000	15.69	(C)	15.9	23.57	14.82	(C)	17.3	24.96
(UN173) $	6500	16.67	(C)	15.9	24.04	15.77	(C)	17.3	25.41
E4OD									
P245/75R16 A/S TIRE									
NAVIGATOR 4x4	6000	16.12	(C)	15.6	22.94	15.33	(C)	17.0	24.13
(UN173) $	6500	17.02	(C)	15.6	23.54	15.91	(C)	17.0	25.18
E4OD									
P255/75R17 A/T TIRE									

ENGINE FAMILY: WFMXA05.4JGC
ISSUED:
REVISED: JUN 16 1997