State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-784
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:

Fuel Type: Gasoline

Engine Family: WFMXA04.6BAA Displacement: 4.6 Liters (280 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 certification exhaust emission standards for this engine family in grams per mile are:

Test Weight (lbs.)	Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
5751-8500	50,000	0.39	5.0	1.1	12.5
	120,000	0.56	7.3	1.53	n/a

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

Test Weight (lbs.)	Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
5751-8500	50,000	0.11	1.4	0.3	4.8
	120,000	0.13	1.7	0.52	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 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 5th day of June 1997.

R. B. Summerfield, Chief
Mobile Source Operations Division

E.O.# 7-10-784

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: WFMXA04.6BAA

Engine Code Types: CA X 49S___ 50S___

Evap Emissions Family: WFMXE0160B0G, WFMXE0160B0F, WFMXE0155B1G, WFMXE0160B1F, WFMXE0155B0G
Evap Test Proc: Pt. Source
Exh Std: Tier-0___ Tier-1 X TLEV___ LEV___ ULEV___ ZEV___ EPA TIER-0___ TIER-1___

Evap Std: 50K___ Useful Life with R/L X 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)
Service Accum: Mod AMA
Exh Cert Fuel(s): Indo X Ph2___ 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: 4.6L (280 CI) Liters (Cubic Inches)
Valves/Cyl: 2 Rated HP: 215 @ 4500 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.
848WR05A	E150 RVL	A(DU)	6000	*	F8UF-PB	F7UE-AA	F8UA-HB(RH)
848WR05N	E150 CWL	A(DU)	6000				F8UA-CB(LH)
848WR05A	E150 CWL	A(DU)	6000				
848WR05N	E150 RVL-RV	A(DU)	6000				
848WR05N	E150 RVL	A(DU)	6000				
848WR05A	E150 RVL-RV	A(DU)	6000				
848PR05N	F250 RKL 2WD	A(DU)	6000		F85F-JA	F65E-BA	F75A-FD(LH)
848PR05N	F250 RKL 2WD	A(DU)	6000				F75A-DF(RH)
848TR05N	F250 RKL 2WD	A(DU)	6000		F85F-KA		
848TR05N	F250 RKL 2WD	A(DU)	6000				
848PR05A	F250 RKL 2WD	A(DU)	6000		F85F-JA		
848PR05A	F250 RKL 2WD	A(DU)	6000				
848TR05A	F250 RKL 2WD	A(DU)	6000		F85F-KA		
848TR05A	F250 RKL 2WD	A(DU)	6000				
848PR05N	F250 SKS 2WD	A(DU)	6000		F85F-JA		
848TR05N	F250 SKS 2WD	A(DU)	6000		F85F-KA		
848PR05A	F250 SKS 2WD	A(DU)	6000		F85F-JA		

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Section 20.09.17.02 cont.

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.
848TR05A	F250 SKS 2WD	A(DU)	6000	*	F85F-KA	F65E-BA	F75A-FD(LH)
848PR05N	F250 SKS 2WD	A(DU)	6000		F85F-JA		F75A-DF(RH)
848TR05N	F250 SKS 2WD	A(DU)	6000		F85F-KA		
848PR05A	F250 SKS 2WD	A(DU)	6000		F85F-JA		
848TR05A	F250 SKS 2WD	A(DU)	6000		F85F-KA		
848TR05N	F250 RKL 4WD	A(DU)	6000		F85F-KA	F65E-BA	F75A-GD(LH)
848TR05A	F250 RKL 4WD	A(DU)	6000		F85F-KA		F75A-EG(RH)
848TR05N	F250 SKS 4WD	A(DU)	6000		F85F-KA		
848TR05A	F250 SKS 4WD	A(DU)	6000		F85F-KA		
848UR05A	Expdtn 2WD	A(DU)	6000		F85F-UA	F65E-BA	F75A-FD(LH)
848UR05A	Expdtn 4WD	A(DU)	6000				F75A-DF(RH)
747SR05N	F250 RKL 2WD	M(RE)	6000		F75F-MB	F65E-BA	F75A-FD(LH)
747SR05N	F250 RKL 2WD	M(RE)	6000				F75A-DF(RH)
747TR05N	F250 RKL 2WD	M(RE)	6000		F75F-NB		
747TR05N	F250 RKL 2WD	M(RE)	6000				
747SR05A	F250 RKL 2WD	M(RE)	6000		F75F-MB		
747SR05A	F250 RKL 2WD	M(RE)	6000				
747TR05A	F250 RKL 2WD	M(RE)	6000		F75F-NB		
747TR05A	F250 RKL 2WD	M(RE)	6000				
747SR05N	F250 SKS 2WD	M(RE)	6000		F75F-MB		
747SR05N	F250 SKS 2WD	M(RE)	6000				
747TR05N	F250 SKS 2WD	M(RE)	6000		F75F-NB		
747TR05N	F250 SKS 2WD	M(RE)	6000				
747SR05A	F250 SKS 2WD	M(RE)	6000		F75F-MB		
747SR05A	F250 SKS 2WD	M(RE)	6000				
747TR05A	F250 SKS 2WD	M(RE)	6000		F75F-NB		
747TR05A	F250 SKS 2WD	M(RE)	6000				
747SR05N	F250 RKL 4WD	M(RE)	6000		F75F-MB	F65E-BA	F75A-GD(LH)
747TR05N	F250 RKL 4WD	M(RE)	6000		F75F-NB		F75A-EG(RH)
747SR05A	F250 RKL 4WD	M(RE)	6000		F75F-MB		
747TR05A	F250 RKL 4WD	M(RE)	6000		F75F-NB		
747SR05N	F250 SKS 4WD	M(RE)	6000		F75F-MB		
747TR05N	F250 SKS 4WD	M(RE)	6000		F75F-NB		
747SR05A	F250 SKS 4WD	M(RE)	6000		F75F-MB		
747TR05A	F250 SKS 4WD	M(RE)	6000		F75F-NB		

* See DPA Summary Sheet, Section 20.09.17.03

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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.
848TR05A	F250 SKS 2WD	A(DU)	6000	*	F85F-KA	F65E-BA	F75A-FD(LH)
848PR05N	F250 SKS 2WD	A(DU)	6000		F85F-JA		F75A-DF(RH)
848TR05N	F250 SKS 2WD	A(DU)	6000		F85F-KA		
848PR05A	F250 SKS 2WD	A(DU)	6000		F85F-JA		
848TR05A	F250 SKS 2WD	A(DU)	6000		F85F-KA		
848TR05N	F250 RKL 4WD	A(DU)	6000		F85F-KA	F65E-BA	F75A-GD(LH)
848TR05A	F250 RKL 4WD	A(DU)	6000		F85F-KA		F75A-EG(RH)
848TR05N	F250 SKS 4WD	A(DU)	6000		F85F-KA		
848TR05A	F250 SKS 4WD	A(DU)	6000		F85F-KA		
848UR05A	Expdtn 2WD	A(DU)	6000		F85F-UA	F65E-BA	F75A-FD(LH)
848UR05A	Expdtn 4WD	A(DU)	6000				F75A-DF(RH)
747SR05N	F250 RKL 2WD	M(RE)	6000		F75F-MB	F65E-BA	F75A-FD(LH)
747SR05N	F250 RKL 2WD	M(RE)	6000				F75A-DF(RH)
747TR05N	F250 RKL 2WD	M(RE)	6000		F75F-NB		
747TR05N	F250 RKL 2WD	M(RE)	6000				
747SR05A	F250 RKL 2WD	M(RE)	6000		F75F-MB		
747SR05A	F250 RKL 2WD	M(RE)	6000				
747TR05A	F250 RKL 2WD	M(RE)	6000		F75F-NB		
747TR05A	F250 RKL 2WD	M(RE)	6000				
747SR05N	F250 SKS 2WD	M(RE)	6000		F75F-MB		
747SR05N	F250 SKS 2WD	M(RE)	6000				
747TR05N	F250 SKS 2WD	M(RE)	6000		F75F-NB		
747TR05N	F250 SKS 2WD	M(RE)	6000				
747SR05A	F250 SKS 2WD	M(RE)	6000		F75F-MB		
747SR05A	F250 SKS 2WD	M(RE)	6000				
747TR05A	F250 SKS 2WD	M(RE)	6000		F75F-NB		
747TR05A	F250 SKS 2WD	M(RE)	6000				
747SR05N	F250 RKL 4WD	M(RE)	6000		F75F-MB	F65E-BA	F75A-GD(LH)
747TR05N	F250 RKL 4WD	M(RE)	6000		F75F-NB		F75A-EG(RH)
747SR05A	F250 RKL 4WD	M(RE)	6000		F75F-MB		
747TR05A	F250 RKL 4WD	M(RE)	6000		F75F-NB		
747SR05N	F250 SKS 4WD	M(RE)	6000		F75F-MB		
747TR05N	F250 SKS 4WD	M(RE)	6000		F75F-NB		
747SR05A	F250 SKS 4WD	M(RE)	6000		F75F-MB		
747TR05A	F250 SKS 4WD	M(RE)	6000		F75F-NB		

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848UR10A	Expdtn 2WD	A(DU)	6000		F85F-UC	F65E-BA	F75A-FD(LH)
848UR10A	Expdtn 4WD	A(DU)	6000				F75A-DF(RH)

* See DPA Summary Sheet, Section 20.09.17.03

1998 SUPPLEMENTAL DATA SHEET E.O.# A-10-784

DPA Summary Sheet

VEHICLE LINE		ETW	< - - - NON - AC			- - - >	< - - - A C			- - - >
			CDT	CODE	DPA	TRLHP (HP)	CDT	CODE	DPA	TRLHP (HP)
			% = LVW/ALVW (BOTH)			$ = ALVW				
F-250 4X2 (LD)		5000	15.56	(R)	13.2	19.81	14.58	(R)	14.5	21.14
(PN102)		5250	16.06	(R)	13.2	20.15	15.06	(R)	14.5	21.49
MANUAL OR AUTO E4OD TRANS		5500	16.55	(C)	13.2	20.49	15.55	(C)	14.5	21.80
(GAS or NGV)	$	6000	17.54	(C)	13.2	21.09	16.52	(C)	14.5	22.39
	$	6500	18.53	(C)	13.2	21.62	17.49	(C)	14.5	22.91
F-250 4X2 (LD)		5000	14.43	(C)	13.8	21.36	13.57	(C)	15.2	22.71
(PN102)		5250	14.98	(R)	13.8	21.60	14.10	(R)	15.2	22.95
AUTO TRANS (4R70W)		5500	15.54	(R)	13.8	21.82	14.62	(R)	15.2	23.19
	$	6000	16.64	(C)	13.8	22.23	15.68	(C)	15.2	23.59
	$	6500	17.75	(C)	13.8	22.57	16.73	(C)	15.2	23.95
F-250 4X4 (LD)		5000	13.93	(R)	14.8	22.13	13.17	(R)	16.2	23.40
(PN102)		5250	14.38	(R)	14.8	22.50	13.59	(R)	16.2	23.81
MANUAL OR AUTO E4OD TRANS		5500	14.82	(C)	14.8	22.88	14.01	(C)	16.2	24.20
	$	6000	15.71	(C)	14.8	23.54	14.85	(C)	16.2	24.91
	$	6500	16.60	(C)	14.8	24.14	15.69	(C)	16.2	25.54
F-250 4X4 (LD)		5000	13.27	(R)	14.8	23.23	12.54	(R)	16.2	24.58
(PN102)		5250	13.72	(R)	14.8	23.59	12.98	(R)	16.2	24.93
AUTO TRANS (4R70W)		5500	14.18	(C)	14.8	23.91	13.42	(C)	16.2	25.26
	$	6000	15.09	(C)	14.8	24.51	14.29	(C)	16.2	25.88
	$	6500	16.00	(C)	14.8	25.04	15.17	(C)	16.2	26.41
EXPEDITION 4X2		5000	15.79	(C)	12.5	19.52	14.83	(C)	13.8	20.78
(UN93)		5250	16.47	(C)	12.5	19.65	15.46	(C)	13.8	20.93
4R70W	$	5500	17.16	(R)	12.5	19.76	16.10	(R)	13.8	21.06
P255/70R16 A/S TIRE	$	6000	18.52	(C)	12.5	19.97	17.37	(C)	13.8	21.29
4R70W		5000	15.84	(C)	12.8	19.46	14.83	(C)	14.1	20.78
P255/70R16 A/T TIRE		5250	16.44	(C)	12.8	19.68	15.43	(C)	14.1	20.97
	$	5500	17.05	(R)	12.8	19.88	16.04	(R)	14.1	21.14
	$	6000	18.25	(C)	12.8	20.27	17.25	(C)	14.1	21.44
EXPEDITION 4X4		5500	15.18	(C)	14.2	22.33	14.52	(C)	15.6	23.35
(UN93)	$	6000	16.32	(C)	14.2	22.66	15.21	(C)	15.6	24.32
4R70W	$	6500	17.47	(C)	14.2	22.93	16.38	(C)	15.6	24.46
P255/70R16 A/S TIRE										
4R70W		5500	14.76	(C)	14.5	22.97	14.11	(C)	15.9	24.03
P255/70R16 A/T TIRE	$	6000	15.93	(C)	14.5	23.22	14.96	(C)	15.9	24.72
	$	6500	17.16	(C)	14.5	23.35	16.00	(C)	15.9	25.04
4R70W		5500	14.90	(C)	14.9	22.75	14.26	(C)	16.3	23.77
P265/70R17 A/T TIRE	$	6000	16.03	(C)	14.9	23.07	14.96	(C)	16.3	24.72
	$	6500	17.16	(C)	14.9	23.35	16.06	(C)	16.3	24.95
E-SERIES (VN127) - (LD)										
ECONOLINE E-150		5250	16.09	(A)	13.5	20.11	15.08	(A)	14.9	21.46
VAN/CLUB WAGON		5500	16.38	(A)	13.5	20.70	15.37	(A)	14.9	22.06
4.6L		6000	17.70	(A)	13.5	20.90	16.63	(A)	14.9	22.24
4R70W	$	5500	16.34	(A)	14.0	20.75	15.31	(A)	15.4	22.14
	$	6000	17.12	(A)	14.4	21.60	16.08	(A)	15.8	23.00
	$	6500	18.55	(A)	14.4	21.60	17.42	(A)	15.8	23.00

(C) Certification Point, (R) Regressed Point, (A) Adjusted Point

Engine Family: WFMXA04.6BAA
Issued: May 05 1997
Revised: