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## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-10-788 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: Super-Ultra-Low-Emission Vehicle (SULEV)

Fuel Type: Compressed Natural Gas (CNG)

Engine Family: WFMXT05.4RP6 <u>Displacement</u>: 5.4 Liters (326 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Dual Warm Up 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 <u>Monoxide</u>	Nitrogen Oxides	<u>Formaldehyde</u>
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 1998 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.) 5751-8500	Non-Methane <u>Miles</u> <u>Organic Gases</u>		Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Formaldehyde</u>	
	50,000 120,000	0.013 0.018	0.5 0.8	0.1 0.23	0.001 0.002	

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 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 \_\_\_\_\_\_ day of August 1997.

R. B. Symmerfield, Chief

Mobile Source Operations Division

1998 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 1
PASSENGER CARS, LIGHT-DUTY AND MEDIUM-DUTY TRUCKS

Mfgr. <u>Ford</u>	MOTOR COMPANY	Exh Eng Fam:	WFMXT05.4	RP6	Evap Fam	WFMXR000	<u>OZYK</u>
All Engine C	odes in Engine F	amily: CA 4	9S <b>50</b> S	_ <b>X</b> _ AE	965 ORVI	₹: Yes	_ No x
Exh Std: CA	Tier-1 , TLEV	, LEV,	OLEV,	SULEV	Χ,	EPA TIER	-1_
Veh Class(es)	): PC LDT1	_ LDT2 MD	V1 MD	V2	MDV3_X_M	DV4 ME	)V5_
Single Cert S	Std for Multi-Cla	ass Eng Fam: _]	N/A (s	pecify	N/A, LDT1,	MDV1,MDV2,	MDV3,MDV4)
Fuel Type(s):	Dedicated X Gasoline I	Flex Fuel Diesel M85	Dual-Fue CNG_	l B:	-Fuel	(specify)_	
	t Fuel(s): Indo Dies		, <u> </u>	4001	: 90.113-90_	or -9	4
	mission Test Pro						
Service Accum	ulation: Std AMA	Mod AMA_X	Mfr. ADP	Ot	her (Specify	·)	<del></del>
NMOG Test Pro	cedure: N/A S	td_X_ Equiv	R/L Tes	st Proc	edure: SHED_	Pt So	urce
Engine Configure Valves/Cyl:	uration: V-8	Displace	ment:	.4L (3	<u>26)</u> Liters (	Cubic Incl	ies)
Exhaust Contro	ol System and Spe	ecial Features	: <u>2WU-TWC</u> (Use ab	<u>. TWC,</u> brevia	<u>2HO2S,</u> tions per SA	SFI	
Engine Code (also list   CA/49ST/50ST	Vehicle Models (if coded see attachment)	Trans. Type A4-Automatic M5-Manual	or	or	(ECM/PCM)	System	Catalytic Converter Part No.
746NR05A/N		A			F7UF-ACB	N/A	F7UA-5F250-JD (CC-RH/LH) F7UA-5E212-TD (UB)
	E-250 - RVL - NGV E-250 - RVL - NGV E-250 - SVL - NGV E-250 - SVL - NGV E-350 - RVL - NGV E-350 - RVL - NGV E-350 - SVL - NGV - 15 E-350 - SWL - NGV - 15 E-350 - SWL - NGV - 12 E-350 - SWL - NGV - 12 E-350 - SWL - NGV - 12 E-350 - SWL - NGV - 12		7000 7000 7000 7000 7500 7500 7500 7500	15.1 16.5* 15.1 16.5* 16.5 17.9* 15.6 17.0* 14.7 16.1* 15.4 16.8*			

\* WITH A/C

Engine Family: WFMXT05.4RP6

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R/C 5.4-18

Issue Date: 7-11-97 Revised: 9-24-97