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## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-10-789 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: WFMXT05.4RP5 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 <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<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.)	Miles	Non-Methane Organic Gases	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Formaldehyde</u>
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 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.I(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 23 day of July 1997.

R. B. Summerfield, 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. FORD M	OTOR COMPANY	Exh Eng Fam: WE	MXT05.4RP	<u>5</u>	Evap Fam: J	WFMXEROOOO2	ZYK
All Engine Cod	les in Engine Far	nily: CA 498	50s <u>x</u>	_ AB965	ORVR:	Yes	VoX
Exh Std: CA Ti	er-1, TLEV_	_,LEV, UI	.EV , s	ULEV <u>X</u>	,	EPA TIER-1	<del></del>
Veh Class(es):	PCLDT1	LUTZMDV	L MDV2	М	OV3 X MDV	74 MDV5	<u> </u>
Single Cert St	d for Multi-Clas	ss Eng Fam: N/	'A (spe	cify: N	A, LDT1,ME	V1,MDV2,MD	V3,MDV4)
<pre>Fuel Type(s):</pre>	Dedicated X Gasoline D	Flex Fuel I iesel M85_	Oual-Fuel_ CNG	Bi-F	uelOther (s	specify)	
Exh Emiss Test	Fuel(s): Indo Dies	CBG CNG el: 13 CCR 228	x LPG or	M85 40CFR 8	Other (spec 6.113-90	cify)or94_	
Evaporative En	mission Test Pro-	cedure: NA Cal	ifornia		Federal	<del></del>	
Service Accumu	ulation: Std AMA	Mod AMA_X_	Mfr. ADP_	Othe	r (Specify)	·	
NMOG Test Prod	cedure: N/A S	tdEquiv_X	R/L Test	Proced	ure: SHED_	Pt Sou	rce
Engine Configu Valves/Cyl: _2 Engine: Front	uration: V-8 2 L X Mid Re	Displace Rat ar Dri	ment: 5. ed HP: 19 ve: FWD_	4L (326 90 @ 4 RWD_	<u>)</u> Liters () 250 RPM X 4WD-FT	Cubic Inche	es) r
Exhaust Contro	ol System and Sp	ecial Features	(Use ab)	, 2TW previati	ons per SA	2HO2S, SF1 E J1930 JU	N93)
Engine Code (also list CA/49ST/50ST	Vehicle Models (if coded see attachment)	A4-Automatic	or	or	Ignition (ECM/PCM) Part No.	System	Catalytic Converter Part No.
746WR05A	F-250 RKL - NGV	А	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-ACI (UB1-RH/LH)alt
746WP05N	F-250 RKI - NGV	Δ	6500	13.2	н	41	*1

Engine Family: WFMXT05.4RP5

Issue Date: AL 07 BW Revised: 20.09.17.02 - 1