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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-989

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 2001 model-year Ford Motor Company Otto-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Gasoline

Engine Family	~	Displacement Subic Inches)	Exhaust Emission Control Systems and Special Features
1FMXH05.4CF5	5.4	(326)	Sequential Multiport Fuel Injection Dual Heated Oxygen Sensors Heated Oxygen Sensor Three Way Catalytic Converter

Engine models and codes are listed on attachments.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

Total <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>
1.9	37.1	4.0

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

Total	Carbon	Nitrogen
<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>
0.1	2.2	1.0

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted 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.).

BE IT FURTHER RESOLVED: That the listed engine models comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Sections 1965).

Engines 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 attachments.

Executed at El Monte, California this ______ day of July 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

2001 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY DUTY OTTO-CYCLE ENGINES

Manufacturer: Fo	rd Motor Company	Engine Fam	ily: <u>1FMXH05</u> .	4CF5_
Displacement:5.	4 Liter 326	_Cubic Inches		
All Eng Codes in I	Eng Family: CA 49S	<u>X</u> 50S <u>X</u>		
Fuel Type(s):	Dedicated X Flex I	Fuel Dual-Fuel	Bi-Fuel Ga	asoline X CNG
	LNG _ LPG _ M8	5 M100 Other	(specify)	
Maximum Rated F	ower: <u>255</u> HP @ <u>4</u>	500 RPM E-Series	Engine Config	guration <u>V8</u>
Exhaust Control S	ystem and Special Fea		HO2S, SFI ons per SAE J19	930 SEP91)
Engine Model	Ign. System or PCM	Fuel System Injector	Catalyst	
(Engine Code)	Part No. -12A650-	Part No. -9F593-	Part No. -5E212-	
1E414N0A05	1C2F-PB	F0TE-DB	YC2C-JA YC2C-HA	(complete vehicle) (incomplete vehicle)
1E414Y0505	1C2F-TB	F0TE-DB	YC2C-DB	
Comments:			and the second s	

Engine Family: 1FMXH05.4CF5

Issued: June 7, 2000

Revised: