Juli

California Environmental Protection Agency AIR RESOURCES BOARD	FORD MOTOR COMPANY	EXECUTIVE ORDER A-010-1051-1 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	TEST GROUP	VEHICLE TYPE	EXHAUST EMISSION STANDARD CATEGORY	EXHAUST / EVAPORATIVE USEFUL LIFE (UL) (miles)	FUEL TYPE
2002	2FMXT05.4RF6	5,751-8,500 Pounds Adjusted Loaded Vehicle Weight Medium Duty Vehicle	1) USEPA Bin 10 2) Counted as ARB LEV I ULEV	120K / 120K	Gasoline (Indolene)

No.	EVAPORATIVE FAMILY (EVAP)	No.	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS (ECS) * = not applicable
1	2FMXE0155BAF	1	2TWC(2), 2HO2S(2), EGR, SFI, OBD (P)
2	2FMXE0155BAG	2	*
3	*	3	*
4	*	4	*

TWC=3-way catalyst ADSTWC=adsorbing TWC WU=warm-up catalyst OC=oxidizing catalyst O2S=oxygen sensor HO2S=heated O2S AFS/HAFS=air- fuel ratio sensor/heated AFS EGR=exhaust gas recirculation AIR=secondary air injection PAIR=pulsed AIR MFI=multiport fuel injection SFI= sequential MFI TBI=throttle body injection TC/SC = turbo/super charger CAC=charge air cooler OBD (F) / (P)=full/partial on-board diagnostic prefix 2=parallel (2) suffix=series

EVAP No.	ECS No.	ENGINE SIZE (L)	VEHICLE MAKES & MODELS VEHICLES SUBJECT TO SFTP STANDARDS ARE UNDERLINED
1	1	5.4	Ford F-150 Pickup 2WD/4WD Short Wheelbase; F-150 Supercrew Pickup 4WD Short Wheelbase
2	1	5.4	Ford F-150 Pickup 2WD/4WD Long Wheelbase
1	1	4.6	Ford F-150 Supercrew Pickup 4WD Short Wheelbase
*	*	*	*

ABBREVIATIONS:

The exhaust and evaporative emission standards (STD) and certification emission levels (CERT) for the listed vehicles are as follows, except that compliance with the 50° Fahrenheit testing requirement (for low emission vehicles only) may have been met based on the manufacturer's submitted compliance plan in lieu of actual testing. Any debit in the manufacturer's compliance plan for "NMOG Fleet Average" (passenger cars and light-duty trucks) or "Vehicle Equivalent Credit" (medium-duty vehicles) shall be equalized as required. (For bi-, dual- or flexible-fueled vehicles, the emission standards and certification levels in parentheses are those applicable to testing on gasoline test fuel.)

NMOG FLEET AVERAGE [g/mi]		NMOG @ RAF=1.00 CH4 RAF = *		NMOG or NMHC STD [g/mi]	CH4=methane NMOG=non-CH4 organic gas NMHC=non-CH4 hydrocarbon CO=carbon monoxide NOx=oxides of nitrogen HCHO=formaldehyde PM=particulate matter RAF=reactivity adjustment factor									
CERT	STD	NMOG CERT [g/mi]	NMHC CERT [g/mi]		CO [g/mi]		NOx [g/mi]		HCHO [mg/mi]		PM [g/mi]		Hwy NOx [g/mi]	
*	*				CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
K = 1000 miles	@ 50K	0.087	*	0.195	1.0	4.4	0.2	0.4	1	18	*	*	0.1	0.5
	@ UL	0.107	*	0.280	1.2	6.4	0.3	0.6	1	27	*	*	0.2	0.8
	@ 50°F & 4K	*	*	*	*	*	*	*	*	*	*	*	*	*

CO [g/mi] @ 20°F & 50K		g = gram mg = milligram mi = mile	NMHC+NOx [g/mi] (composite)		NMHC+NOx [g/mi] [US06]		CO [g/mi] [US06]		NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]	
CERT	STD		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
5.4	12.5	SFTP @ 4K	*	*	*	*	*	*	*	*	*	*
F = degree Fahrenheit		SFTP @ UL	*	*	*	*	*	*	*	*	*	*

@ UL	EVAPORATIVE FAMILY 1				EVAPORATIVE FAMILY 2				EVAPORATIVE FAMILY 3				EVAPORATIVE FAMILY 4			
	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVR
CERT	1.3	1.0	0.01	*	1.3	1.0	0.01	*	*	*	*	*	*	*	*	*
STD	2.0	2.5	0.05	*	2.5	3.0	0.05	*	*	*	*	*	*	*	*	*

2-D, 3-D [g/test] = 2-day, 3-day diurnal and hot-soak RL [g/mi] = running loss ORVR [g/gallon of fuel dispensed] = on-board refueling vapor recovery

BE IT FURTHER RESOLVED: That for the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [labeling], 1968.1 or 1968.1(m)(6.2)[on-board diagnostic (OBD) full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles).

BE IT FURTHER RESOLVED: That the listed vehicle models are federally certified, and are certified under the provisions of 13 CCR Section 1961(a)(14) and the incorporated test procedures.

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.
The Bureau of Automotive Repair will be notified by copy of this Executive Order.
This Executive Order hereby supersedes Executive Order A-010-1051 dated October 11, 2001.

Executed at El Monte, California on this 13th day of December 2001.

R. B. Summerfield, Chief
Mobile Source Operations Division