

### FORD MOTOR COMPANY

**EXECUTIVE ORDER A-010-1184** 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 & 39516 and Executive Order G-02-003;

#### 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.

*		*	*							
*		*					4.6			
•		*	4FMXE0	160BAG						
1	2TWC(2), 2H	O2S(2), SFI, EGR, OBD(F)	4FMXE0	160BAF						
No. ECS & SPECIAL FEATURES				EVAPORATIVE FAMILY (EVAF) DISPLACEMENT (L)						
			, ,	120K	120K	•	•	Unleaded)		
2004	4FMXT04.6PNB	MDV: 3751-5750 Pounds ALVW	Low Emission Vehicle (LEV)	EXH / ORVR	EVAP	EXH	EVAP	GASOLINE (Tier 2		
MODEL YEAR	TEST GROUP	VEHICLE TYPE EXHAUST EMISSION USEFUL LIFE (miles)				IN- COMP (*=N/A or A/E=ex	MEDIATE  USE LIANCE full in-use; h. / evap. late in-use)	FUEL TYPE		

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations.

#### BE IT FURTHER RESOLVED:

That the exhaust and the evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's "NMOG Fleet Average" (PC or LDT) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

#### **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 [emission control labels], 1968.1 [on-board diagnostic, 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 PC, LDT and MDV).

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.

Executed at El Monte, California on this \_\_\_\_\_ 27<sup>III</sup> day of June 2003.

Allen Lyons, Chief

Mobile Source Operations Division

Rophal Susports

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## **ATTACHMENT**

# EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

(For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

NMOG FLEET NMOG @ RAF=* AVERAGE [g/mi] CH4 RAF = *		NMOG or NMHC  NMHC  NMOG or NM												
CERT	STD	NMOG CERT	NMHC CERT	NMHC STD	mi=mile; K	=1000 miles;	F=degrees F	ahrenheit; S	n dispensed]=c FTP=supplen	an hoard rof	ualina waass		ram; <b>mg</b> =milli	gram
•	*	[g/mi]	[g/mi]	[g/mi]	CO	g/mi]	NOx	[g/mi]	НСНО [	mg/mi]		g/mi]	Hwy NO	x [a/mi]
		[g/iiii]	[g/m]		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
3.0	@ 50K	0.062	*	0.160	0.7	4.4	0.1	0.4	0.9	18.	•	*	0.03	0.8
<b>医复数</b>	@ UL	0.074	*	0.230	0.7	6.4	0.1	0.6	1.4	27.	*	*	0.1	1.2
<b>@</b>	50°F & 4K	*	*	*	*		*	*	•		*	*		*

CO [g/mi] @ 20°F & 50K				lOx [g/mi] posite)		g/mi] posite)		:+NOx [US06]	CO [	g/mi] :06]		+NOx [SC03]	[SC	
	7 F & 50K	<b>"你是我们</b>	CERT	SŢD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
CERT	5.5	SFTP @ 4000 miles	*	*	*	*	0.07	0.40	1.4	10.5	0.02	0.31	0.2	3.5
STD	12.5	SFTP @ * miles	*	*	*	•		*		*	*	*	*	*

Evaporative Family	3-Days Diurn (grams/te	al + Hot Soak est) @ UL	2-Days Diurnal + Hot Soak (grams/test) @ UL		Running Loss (grams/mile) @ UL		On-Board Refueling Vapor Recovery (grams/gallon) @ UL		
	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
4FMXE0160BAF	1.3	2.0	1.0	2.5	0.01	0.05	*	*	
4FMXE0160BAG	1.3	2.5	1.0	3,0	0.01	0.05	<b></b>		
*	*	*	*	*	*	*	*		
*	•	*	*	*		•	<del>                                     </del>	<del> </del> -	

<sup>\*=</sup> not applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; ECS= Emission Control System; STD= Standard; CERT= Certification; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; TLEV=transitional LEV; ULEV=ultra LEV; SULEV=super ULEV; 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; DOR=direct ozone reducing; prefix 2=parallel; (2) suffix=series; CNG/LNG= compressed/liquefled natural gas; LPG=liquefled petroleum gas; E85="85%" Ethanol Fuel;

## 2004 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	IN-I COMP (*=N/A or A/E≃exi	MEDIATE USE LIANCE full in-use; h. / evap. ate in-use)	PHASE-IN STD.	OBD II
				İ	EXH	EVAP	] . ]	
FORD	F-150 PICKUP 2WD SHORT WHEELBASE	4FMXE0160BAF	1	4.6	*	*	SFTP	Full
FORD	F-150 PICKUP 4WD SHORT WHEELBASE	4FMXE0160BAF	1	4.6	*	• /	SFTP	Full
FORD	F-150 PICKUP 2WD LONG WHEELBASE	4FMXE0160BAG	1	4.6	•	*	SFTP	Full
FORD	F-150 PICKUP 4WD LONG WHEELBASE	4FMXE0160BAG	1	4.6	*	•	SFTP	Full