California Environmental Protection Agency

OB Air Resources Board

FORD MOTOR COMPANY

Executive Order: A-010-2001

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

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Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: 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.

					TEST GRO	OUP IN	FORMAT	ION						
MODE		EST G	ROUP	VEHIC	CLE CLASS(E	S)	FUEL CATEGORY		FUEL TYPE					
2017	HF	MXD06	.26BC		MDV4	FLEX-FUEL (FFV				185% ETHANOL		ANOL, GASOLINE		
l	JSEFUL	LIFE	(miles)	VE	HICLE EMISS	SION C	ATEGOR	Υ	IN	TERIM / IN	TERMEDI/	ATE IN-USE STD		
EXH	ORVR		EVAP		FTP		SFTP			FTP	SFTP			
15	0000		150000	LEV3	ULEV200	US06	ULEV (, SC03, ST CYCL	FTP	NMC	G+NOX AN	ND PM NMOG+NOX AND			
SPE	CIAL FE	ATUR		AUST EMISS	ION CONTRO	DL		OBD ST	ATU	s	ENGIN	E DISPLACEMENT		
1		2TW	C, 2WR-H	02S, 2H02S	, SFI		FUL	L		*				
*				*			PART	IAL	ALI	MODELS	6.2			
*				*			PARTIAL			*				
			EV	APORATIVE &	REFUELING	G (EVA	P/ORVR)	FAMILY	INF	ORMATION				
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR						GORY	Y EVAP EMISSION STD VEHICLE CLASS				SPECIAL FEATURES			
Н	FMXF03	15NBS			LEV 2		MDV4					*		
Н	FMXF02	50NBS			LEV 2		MDV4				*			
H	IFMXR02	50NBS			LEV 2		MDV4				*			
H	FMXR03	15NBS			LEV 2	V 2 MDV4					*			
					EMISSION C	REDIT	INFORM	ATION						
	A	LLOW	ANCE FO	R TEST GRO	UP		NMOG CREDIT FOR NMOG C				REDIT FOR OPTIONAL E			
BASE	ELINE P	ZEV	AT	PZEV	TZEV	NO	N-PZEV 2	ZERO-E	VAP	D	OR .	TRUCKS		
	*			*	*		N	4			N	N		
				NMO	G AND FLEE	TAVE	RAGE INI	FORMAT	TION					
NMOG RAF	HAIR)			LDT (3751 L	NMOG+NOX FLEET S DT (3751 LVW-8500 (+ MDPV (g/mi)			501-		(R) MD	s+NOX FLEET STE V (10001-14000 GVWR) (g/mi)			
*	*	:	L.10	*		*				*		*		

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:

The exhaust and 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

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manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

BE IT FURTHER RESOLVED:

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], 1968.2 [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 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for 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

_ day of July 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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FUEL TYPE

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F)

CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP

HER STATE OF STATE											
		NMOG+NOx (g/mi)			CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		M mi)
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	E85-EPA (TIER 3 E10 REGULAR GASOLINE (9 RVP @LOW ALT.))	0.130 (0.125)	0.200	2.3 (2.8)	4.2 (4.2)	* (*)	* (*)	1 (*)	6 (6)	0.001	0.008
50°F @4K	E85-EPA	0.265	0.500	0.9	4.2	*	*	4	16		and the second second

					Commence of the Commence of th	
	FUEL TYPE	NMOG+N	lOx (g/mi)	CO (g/mi)		
	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	*	*	*			
HWFET @ UL	E85-EPA (TIER 3 E10 REGULAR GASOLINE (9 RVP @LOW ALT.))	0.096 (0.158)	0.200 (0.200)			
20°F @ 50K	*		All and the state of the	*	*	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

		1 3 1 1 1			SC03	3	COMPOSITE			
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			77.25(%)
		STD	*	*		*	*			
		CERT	*	*	*	*	*	0.176	14.0	2
@ UL	TIER 3 E10 REGULAR GASOLINE (9 RVP @LOW ALT.)	STD	*	*	*	*	*	0.800	22.0	10
		BIN					4200000	*		
		CERT	*	*	*	*	*	0.115	4.8	1
@ UL	E85-EPA	STD	*	*	*	*	*	*	*	*
		BIN						*		342.50

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			WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DHS	S (g/test) (@ UL	2DI	HS (g/test) @	RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
HFMXF0250NBS	E10-EPA	0.530	1.00	*	*	1.25	*	0.00	0.05
HFMXF0315NBS	E10-EPA	0.442	1.00	*	*	1.25	*	0.00	0.05
HFMXR0250NBS	E10-EPA	0.530	1.00	*	*	1.25	*	0.00	0.05
HFMXR0315NBS	E10-EPA	0.442	1.00	*	*	1.25	* .	0.00	0.05

ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
HFMXF0315NBS	E10-EPA	*	*	*	*	*	*	*	*	*		
HFMXR0250NBS	E10-EPA	0.04	0.20	*	*	*	*	*	*	*		
HFMXR0315NBS	E10-EPA	0.04	0.20	*	*	*	*	*	*	*		
HFMXF0250NBS	E10-EPA	*	*	*	*	*	*	*	*	*		

: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: LDT<6000#GVWR,3751-5750#LVW; LDT3: LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4: LDT 6001-8500#GVWR,5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: mediumduty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; PZEV: partial ZEV; AT PZEV: advanced technology PZEV; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia; NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for spark-ignited engine; HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirculation; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; F/P/\$: full/partial/partial with fines on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%" gasoline) fuel; E10: "10%" ethanol ("90%"gasoline) fuel; A: automatic (with lockup); M: manual transmission; SA: semi-automatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission

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MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
FORD	F250 2WD BED DELETE FFV	MDV4	6.2	SA6	HFMXF0250NBS	1	P	*
FORD	F250 2WD BED DELETE FFV	MDV4	6.2	SA6	HFMXF0315NBS	1	P	. *
FORD	F250 4WD BED DELETE FFV	MDV4	6.2	SA6	HFMXF0250NBS	1	P	*
FORD	F250 4WD BED DELETE FFV	MDV4	6.2	SA6	HFMXF0315NBS	1	P	*
FORD	F250 PICKUP 2WD FFV	MDV4	6.2	SA6	HFMXR0250NBS	1	P	*
FORD	F250 PICKUP 2WD FFV	MDV4	6.2	SA6	HFMXR0315NBS	1	P	*
FORD	F250 PICKUP 4WD FFV	MDV4	6.2	SA6	HFMXR0250NBS	1	P	*
FORD	F250 PICKUP 4WD FFV	MDV4	6.2	SA6	HFMXR0315NBS	1	P	*
FORD	F350 2WD BED DELETE FFV	MDV4	6.2	SA6	HFMXF0250NBS	1	P	*
FORD	F350 2WD BED DELETE FFV	MDV4	6.2	SA6	HFMXF0315NBS	1	P	*
FORD	F350 4WD BED DELETE FFV	MDV4	6.2	SA6	HFMXF0250NBS	1	P	*
FORD	F350 4WD BED DELETE FFV	MDV4	6.2	SA6	HFMXF0315NBS	1	P	*
FORD	F350 PICKUP 2WD FFV	MDV4	6.2	SA6	HFMXR0250NBS	1	P	*
FORD	F350 PICKUP 2WD FFV	MDV4	6.2	SA6	HFMXR0315NBS	1	P	*
FORD	F350 PICKUP 4WD FFV	MDV4	6.2	SA6	HFMXR0250NBS	1	P	*
FORD	F350 PICKUP	MDV4	6.2	SA6	HFMXR0315NBS	1	P	*

4WD FFV