

Pursuant to the authority vested in California 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-19-095;

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.

					TEST GRO	OUP IN	IFOR	MATION					
MODE YEAR		EST GROUP	VEHICLE CLASS(ES)					FUEL CATEGORY			FUEL TYPE		
2021	1 MFMXT03.33DU LDT3							FLEX-FUEL VEHICLE (FFV)			85% ETHANOL, GASOLINE		
l	USEFUL	LIFE (miles)		VEH	ICLE EMISS		ATE	GORY	INTERIM / IN	TERMEDIATE IN-USE STD			
EXH	/ORVR	EVAF)		FTP		SF	ТР	FTP		SFTP		
15	0000	15000	0	LEV3	ULEV50	LEV	3 C(MPOSITE	*		PM		
SPE	CIAL FE	ATURES & E	XHAU: STEM		ON CONTRO				OBD STATUS		ENGINE DISPLACEMENT		
1	2	TWC, 2HO2S, 2	2WR-H	02S,SFI,I	DFI,EGR			FULL	ALL MODELS				
*			*				F	ARTIAL	*		3.3		
*	*							TIAL WITH	*				
		E	VAPC	RATIVE &	REFUELING	i (EVA	P/OR	VR) FAMIL	Y INFORMATIO	N			
EVA	P / ORV	R FAMILY	EVA	PORATIVE	E STD CATE	GORY	,	EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
M	IFMXR02	00GDG	L	EV 3 OPTI	CON2 WITH	FEL		LDT3			НСТ		
M	IFMXR02	60NDG	L	EV 3 OPTI	ION2 WITH	FEL		LDT3 HCT			HCT		
				I	EMISSION C	REDIT	INFO	ORMATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY					ON-P	ZEV	NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS		
		N			N			N N					
	NMOG AND FLEET AVERAGE INFORMATION												
NMOG RAF	CH4 RAF	FTP NMOG/NMH RATIO (GASOLINE		HO/NMHC RATIO ASOLINE)	ATIO PC+LDT (0-3750 L			V) LDT	+NOX FLEET S (3751 LVW-8500 R) + MDPV (g/m	0	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10		*	0.058				0.065		*		
See the Attachment for Vehicle Models, Evanorative Family, Engine Displacement, Emission Control Systems, Phase-													

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. (As applicable, heavy-duty vehicles (HDV) over 14,000 pounds in GVWR listed in this Executive Order are certified to the requirements in 13 CCR Section 1961.2 applicable to MDV pursuant to 13 CCR Section 1956.8(c)(3) or 13 CCR Section 1956.8(h)(5), as applicable.)



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 manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c) (3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV 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 on this <u>22nd</u> day of October 2020.

Allen Lyons, Chief Emissions Certification and Compliance Division



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

					G+NOx /mi)		CO (g/mi)			IOx /mi)		HCH mg/r			PM (g/m	
			Ī	CERT	STE	CEF	≀т ∣ S Т	D	CERT	STD	CER	т	STD	CERT		STD
FTP@5	0K	*		*	*	*	*		*	*	*		*	*		*
FTP@L	E85-EPA UL (GASOLINE- TIER3 E10)		NE-	0.030 (0.035)	0.05				* (*)	* (*)	1 (1.1	.)	4 (4)			0.003 (0.003)
50°F @4	4K	*		*	*	*	*		*	*	*		*			
					FUEL 1	VDE			N	MOG+NC)x (g/mi)			CO (g	g/mi)	
						11.2			CE	ERT	STD		CERI	Г		STD
HWFE	T @ 50k	<			*					*	*					
HWFE	T @ UL			(GASO	E85-1 LINE-T	EPA IER3 E1	-			0.009 0.050 (0.018) (0.050)						
20°F (@ 50K			(70% ET		30% EPA	NE (TIE: UNLEAD:	•					1.8 (2.32)		12.5 (12.5)	
				SFTP EX	HAUST	EMISSIO	N STAND	ARDS	AND C	ERTIFIC	ATION LE	EVEL	_S			
		US06							SC03			COMPOSITE			-	
	FUEL T				OG+NOx CO		-	M	NMOG+NOx		со		OG+NOx		0	РМ
					(g/mi) (g/mi) (m <u>ç</u>	(mg/mi)		(g/mi) (g/		(g/mi)		(g/	/mi)	(mg/mi)
@ 4K		,	CER	-	*	*			_	*	*					
		ST			*	*		-	_	*	*					
	TOF	E85-EPA STD BIN CERT			*	*		1 6		*	*	0.025		-	.2	*
@ UL	E92-				<u> </u>	-		0		^	^	0.077		4	. 2	
					*	*		2		*	*			1	.1	*
@ UL		GASOLINE- FIER3 E10 BI			*	*		6		*	*		0.077	4	. 2	*
													0.060			
		WH	IOLE	VEHICLE	EVAPC	RATIVE	EMISSIO		NDARD	S AND C	ERTIFIC	ΑΤΙΟ	N LEVEL	S		
						WHOLE	VEHICLE	EVAF	ORATI	VE TEST	ING					
EVAPORATIVE FAMILY		^{/E} F	UEL		3DHS	6 (g/test)	g/test) @ UL			2DHS (g/test) @ U) UL R		L (g/mi) @ UL		UL
					CERT	STD	FEL	CE	RT	STD	FEL	. CER		T STD		STD
MFMXR0200GD		ובחר	GASOL TIER3	10	. 2989	0.500	0.500		ł	0.500	0.50	0	0.000		(0.05
MFMXR0260NDG		ובחר	GASOL TIER3		0.254	0.500	0.500	0.2	208	0.500	0.50	00	0.00	000 0.05		0.05



ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS													
F					FUEL C	FUEL ONLY EVAP & CANISTER BLEED							
ORVR (g/g	ORVR (g/gallon) @ UL			ГҮРЕ					BLEED CANISTER TEST (g/test) @ 4K				
FUEL TYPE	L TYPE CERT STD				CERT	STD	CERT	STD	CERT	STD			
GASOLINE- TIER3 E10 0.022 0.20		0.20	GASOLINE- TIER3 E10		*	*	*	*	0.0100	0.020			
GASOLINE- TIER3 E10 0.01 0.20		0.20	GASOLINE- TIER3 E10		*	*	*	*	0.005	0.020			
EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)													
EVAPORATIVE FAMILY LEAK FAMIL				Y CERT				STD					
MFMXR0200GDG MFMXR0200GDG			-001	•001 *				0.02					
MFMXR0260NDG MFMXR0			-001		*	r			0.02				
F	ORVR (g/g FUEL TYPE GASOLINE- TIER3 E10 GASOLINE- TIER3 E10 FFECTIVE GAMILY	ORVR (g/gallon) @ FUEL TYPE CERT GASOLINE- TIER3 E10 0.022 GASOLINE- TIER3 E10 0.01 FFECTIVE LEAK D FAMILY LEAN EDG MFMXR0	ORVR (g/gallon) @ UL FUEL TYPE CERT STD GASOLINE- TIER3 E10 0.022 0.20 GASOLINE- TIER3 E10 0.01 0.20 FFECTIVE LEAK DIAMET FAMILY LEAK FAMIL EDG MFMXR0200GDG	ORVR (g/gallon) @ UL FUEL TYPE CERT STD GASOLINE- TIER3 E10 0.022 0.20 GASOL TIER3 GASOLINE- TIER3 E10 0.01 0.20 GASOL TIER3 FFECTIVE LEAK DIAMETER STA FAMILY LEAK FAMILY EDG MFMXR0200GDG-001	ORVR (g/gallon) @ UL FUEL TYPE CERT STD GASOLINE- TIER3 E10 0.022 0.20 GASOLINE- TIER3 E10 0.01 0.20 GASOLINE- TIER3 E10 0.01 0.20 GASOLINE- TIER3 E10 FFECTIVE LEAK DIAMETER STANDARI FAMILY LEAK FAMILY EDG MFMXR0200GDG-001	FUEL C FUEL TYPE FUEL TYPE FUEL TYPE GUEL TYPE CERT GASOLINE- 0.022 0.20 GASOLINE- * GASOLINE- 0.01 0.20 GASOLINE- * TIER3 E10 0.01 0.20 GASOLINE- * FFECTIVE LEAK DIAMETER STANDARD AND CE * * CAMILY LEAK FAMILY CE EDG MFMXR0200GDG-001 *	FUEL ONLY EVAN FUEL ONLY EVAN ORVR (g/gallon) @ UL FUEL TYPE SUEL ONLY EVAN FUEL TYPE SUEL ONLY EVAN FUEL TYPE 3DHS RIG TEST (g/test) @ UL GASOLINE- TIER3 E10 * * GASOLINE- TIER3 E10 0.01 0.20 GASOLINE- TIER3 E10 * * FFECTIVE LEAK DIAMETER STANDARD AND CERTIFICAT FAMILY CERT SAMILY LEAK FAMILY CERT SDG MFMXR0200GDG-001 *	FUEL ONLY EVAP & CANIS FUEL ONLY EVAP & CANIS ORVR (g/gallon) @ UL FUEL TYPE SUBL TYPE CERT SUB GASOLINE- 0.022 0.20 GASOLINE- * * * * * GASOLINE- 0.01 0.20 GASOLINE- * * * * * * * FFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEV GAMILY CERT SUB GAMILY <th c<="" td=""><td>FUEL ONLY EVAP & CANISTER BLEE ORVR (g/gallon) @ UL FUEL TYPE SUBL TYPE CERT SUBL TYPE SUBL TYPE SUBL TYPE SUBL TYPE SUBL TYPE SUBL TYPE CERT SUBL TYPE CERT SUBL GERT SUB GASOLINE- 0.022 0.01 0.20 GASOLINE- *</td><td>FUEL ONLY EVAP & CANISTER BLEED ORVR (g/gallon) @ UL FUEL TYPE SUBLET ONLY EVAP & CANISTER BLEED FUEL TYPE SUBLET TYPE SUBLET ONLY EVAP & CANISTER BLEED FUEL TYPE SUBLET TYPE SUBLET ONLY EVAP & CANISTER BLEED FUEL TYPE SUBLET ONLY EVAP & CANISTER BLEED GASOLINE- TIER3 E10 OLO 20 BLEED C TEST (g/t GASOLINE- TIER3 E10 * * * * * 0.0100 GASOLINE- TIER3 E10 * <th colspa="</td"></th></td></th>	<td>FUEL ONLY EVAP & CANISTER BLEE ORVR (g/gallon) @ UL FUEL TYPE SUBL TYPE CERT SUBL TYPE SUBL TYPE SUBL TYPE SUBL TYPE SUBL TYPE SUBL TYPE CERT SUBL TYPE CERT SUBL GERT SUB GASOLINE- 0.022 0.01 0.20 GASOLINE- *</td> <td>FUEL ONLY EVAP & CANISTER BLEED ORVR (g/gallon) @ UL FUEL TYPE SUBLET ONLY EVAP & CANISTER BLEED FUEL TYPE SUBLET TYPE SUBLET ONLY EVAP & CANISTER BLEED FUEL TYPE SUBLET TYPE SUBLET ONLY EVAP & CANISTER BLEED FUEL TYPE SUBLET ONLY EVAP & CANISTER BLEED GASOLINE- TIER3 E10 OLO 20 BLEED C TEST (g/t GASOLINE- TIER3 E10 * * * * * 0.0100 GASOLINE- TIER3 E10 * <th colspa="</td"></th></td>	FUEL ONLY EVAP & CANISTER BLEE ORVR (g/gallon) @ UL FUEL TYPE SUBL TYPE CERT SUBL TYPE SUBL TYPE SUBL TYPE SUBL TYPE SUBL TYPE SUBL TYPE CERT SUBL TYPE CERT SUBL GERT SUB GASOLINE- 0.022 0.01 0.20 GASOLINE- *	FUEL ONLY EVAP & CANISTER BLEED ORVR (g/gallon) @ UL FUEL TYPE SUBLET ONLY EVAP & CANISTER BLEED FUEL TYPE SUBLET TYPE SUBLET ONLY EVAP & CANISTER BLEED FUEL TYPE SUBLET TYPE SUBLET ONLY EVAP & CANISTER BLEED FUEL TYPE SUBLET ONLY EVAP & CANISTER BLEED GASOLINE- TIER3 E10 OLO 20 BLEED C TEST (g/t GASOLINE- TIER3 E10 * * * * * 0.0100 GASOLINE- TIER3 E10 * <th colspa="</td"></th>		

: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: .DT<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; 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/oxvoen 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: HP/LP EGR: High/Low Pressure EGR: 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; FFH: fuel fired heater; 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; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%"gasoline) fuel; E10: "10%" éthanol ("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; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle; NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits. S = credits for some/select models

2021	MODEL	YEAR: VE	ODELS INF	ORMATION	

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	F150 2WD FFV	LDT3	3.3	SA10	MFMXR0200GDG	1	F
FORD	F150 2WD FFV	LDT3	3.3	SA10	MFMXR0260NDG	1	F
FORD	F150 2WD FFV BASE PAYLOAD LT	LDT3	3.3	SA10	MFMXR0200GDG	1	F
FORD	F150 2WD FFV BASE PAYLOAD LT	LDT3	3.3	SA10	MFMXR0260NDG	1	F
FORD	F150 4WD FFV	LDT3	3.3	SA10	MFMXR0200GDG	1	F
FORD	F150 4WD FFV	LDT3	3.3	SA10	MFMXR0260NDG	1	F
FORD	F150 4WD FFV BASE PAYLOAD LT	LDT3	3.3	SA10	MFMXR0200GDG	1	F
FORD	F150 4WD FFV BASE PAYLOAD LT	LDT3	3.3	SA10	MFMXR0260NDG	1	F