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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 GR	OUP IN	FORMA	TION				
MODE		EST GROUP	VEHICLE CLASS(ES)				FUEL C	ATEGORY	FUEL TYPE		
2020	LI	YXT03.5M5M		LDT2		DED		SINGLE FUEL	GASOLINE		
	USEFUL	LIFE (miles)	VEH	ICLE EMIS	SION C	ATEGOR	RY	INTERIM / INT	ERMEDIATE IN-USE STD		
EXH	/ORVR	EVAP		FTP		SFTP	1000	FTP	SFTP		
15	0000	150000	LEV3	ULEV70	LEV	3 СОМР	OSITE	***	PM		
SPE	CIAL FE	EATURES & EXI	AUST EMISSIC	ON CONTR	OL		OBD ST	TATUS	ENGINE DISPLACEMENT		
1	DFI	, SFI, 2WR-HO	2S, 2TWC, 21	HO2S, TWO		FU	LL	ALL MODELS			
*			*	( E   15/182 )	HQV	PAR	TIAL	*	3.5		
*						PARTIA FIN		*			
		EV	APORATIVE &	REFUELIN	G (EVA	P/ORVR	) FAMILY	INFORMATION			
EVA	P / ORV	R FAMILY	EVAPORATIVE	STD CATI	EGORY		/AP EMIS	SSION STD CLASS	SPECIAL FEATURES		
I	TYXR01	L65P82	LEV 3	OPTION2	-	LDT2			HCT		
				EMISSION (	CREDIT	INFORM	MATION				
	EDIT FO	OX FLEET AVE. OR EXTENDED RRANTY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EDIT FOR ZERO-EVA		ZEV	NMOG CI	REDIT FOR DOR	OPTIONAL EXH. STD FOR WORK TRUCKS		
		N		N				N	N		
			NMOG	AND FLEE	T AVE	RAGE IN	FORMAT	TION			
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO	NMOG+N PC+LDT			LDT (	NOX FLEET ST 3751 LVW-8500 R) + MDPV (g/mi)	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10	0.040		0.065			0.074	*		

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.)



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#### 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.

This Executive Order hereby supersedes Executive Order A-014-1037-1 dated August 15, 2019.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 22 ND day of November 2019.

Allen Lyons, Chief

Emissions Certification and Compliance Division

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### **ATTACHMENT**

### **EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS**

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

**FUEL TYPE** 

7.75 FEB. 4.75 FEB. 2017 FFE. 2016 F											
		NMOG (g/i		(g/i		NO (g/s		HC (mg			M mi)
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE- TIER3 E10	0.0289	0.070	0.20	1.7	*	*	*	4	*	0.003
50°F @4K	*		*	*	*	*	*	*	* 1		

	FUEL TYPE	NMOG+N	Ox (g/mi)	CO (	g/mi)
HWFET @ 50K	FUEL TYPE	CERT	STD	CERT	STD
HWFET @ 50K		*	*		
HWFET @ UL	GASOLINE-TIER3 E10	0.0091	0.070		
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			0.61	12.5

#### SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06		SC03		COM	POSITE	
	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	*				*			
0		STD	*	*	A STATE OF	*	*			
7.7.14		CERT	*	*	*	*	*	0.0216	0.43	*
60 113	GASOLINE- TIER3 E10	STD	*	*	6	*	*	0.083	4.2	*
		BIN						0.080		

#### WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY			WHOLE						
	FUEL TYPE	3DHS (g/test) @ UL			2DHS (g/test) @ UL			RL (g/mi) @ UL	
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
LTYXR0165P82	GASOLINE- TIER3 E10	0.2304	0.400	*	*	0.400	*	0.008	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) @ 4				
	FUEL TYPE   CERT   STD		CERT	STD	CERT	STD	CERT	STD					
LTYXR0165P82	GASOLINE- TIER3 E10	0.005	0.20	GASOLINE- LEV3 E10	*	*	*	*	0.0046	0.020			



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EFFECTIV	E LEAK DIAMETER STA	ANDARD AND CERTIFICATION L	EVEL (INCHES)
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
LTYXR0165P82	LTYXR0165P82-001		0.02

: 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/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; 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%" 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; 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

### 2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	ОВС
LEXUS	RX 350	LDT2	3.5	SA8	LTYXR0165P82	1	F
LEXUS	RX 350 AWD	LDT2	3.5	SA8	LTYXR0165P82	1	F
LEXUS	RX 350 L	LDT2	3.5	SA8	LTYXR0165P82	1	F
LEXUS	RX 350 L AWD	LDT2	3.5	SA8	LTYXR0165P82	1	F
TOYOTA	HIGHLANDER	LDT2	3.5	SA8	LTYXR0165P82	1	F
TOYOTA	HIGHLANDER AWD	LDT2	3.5	SA8	LTYXR0165P82	1	F
TOYOTA	SIENNA	LDT2	3.5	SA8	LTYXR0165P82	1	F
TOYOTA	SIENNA AWD	LDT2	3.5	SA8	LTYXR0165P82	1	F