

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 GROUP INFORMATION															
MODE		ST GROUP	OUP VEHICLE CLASS(ES)					FUEL CATEGORY				FUEL TYPE			
2021	-	XV02.4LH5			PC		I	DEDICATED SINGLE FUEL VEHICLE			GASOLINE				
		LIEE (miloc)	VEH		LE EMISSION CATEGORY INTERIM / INT						RMEDIATE IN-USE STD				
	I/ORVR	LIFE (miles) EVAP					SFTP FTP				SFTP				
				· · · · ·				COMPOSITE *			PM				
	50000	150000				1	5 00	JOHF OSTIE		1					
SPE	ECIAL FE	ATURES & EX	HAU	ST EMISSIO S	N CONTRO	L		OBD STATUS		E	ENGINE DISPLACEMENT (L)				
1								FULL	ALL MODELS						
*	*							ARTIAL		*	2.4				
*	* * PARTIAL WITH FINES									*					
		E	VAPO	ORATIVE &	REFUELING	G (EVA	P/OR	VR) FAMIL	Y INF	ORMATION	I				
EVA	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR						DRY EVAP EMISSION STD VEHICLE CLASS				SPECIAL FEATURES				
	MHYXR01	33LHG		LEV 3	OPTION2		PC				HCT				
				E	MISSION C	REDI	T INFO	RMATION							
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY										OPTIONAL EXH. STD FOR WORK TRUCKS					
	N N							N N							
NMOG AND FLEET AVERAGE INFORMATION															
NMOO RAF	G CH4 RAF	FTP NMOG/NMH RATIO	C HO	HCHO/NMHC RATIO											
*	*	1.10		*	* 0.058 0.065							*			
Que Attack ment for Vehicle Medele, Evenerative 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 1674 day of June 2020.

Allen Kons, Chief **Emissions Certification and Compliance Division** 



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EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS																			
		E	хна									the second s	(FTP, HW	And Person in Concession, Name	and an				
FUEL TYPE				m ac O 10	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														
					NMOG+NOx (g/mi)			CO (g/mi)			NOx (g/mi)			HCH( (mg/m			PM (g/mi)		
					CERT			CERT ST		5	CERT			r	STD	CERT		STD	
FTP@5	OK	1	ł		*		*	*	*		*	*	*			t .		*	
FTP@L		GASOI TIER3			0.034	4 0	.070	0.5	1.7	7	*	*	*		4	0.000		0.003	
50°F @4		GASOI TIER3			0.028	в О	.140	0.2	1.7	7	*	*	*		16				
						CUI	EL TYP	=			N	MOG+N	Ox (g/mi)		(		CO (g/mi)		
						FUI		<b>E</b>			CI	RT	STD		CERT			STD	
HWFE	r @ 5	OK					*					*	*	*					
HWFE	т@เ	UL			GASOLINE-TIER3 E10						0.	0.017 0.070							
20°F	@ 501	ĸ	CO		CO E10 REGULAR GASOLINE (TIER3)										1.5 10.0			10.0	
				SI	FTP E	XHAU			STANDA	ARDS	AND C		ATION LE	VEL			-		
								US06			SC03				COMPOSITE				
	FUEL TYP		PE NM			MOG+NOx (g/mi)		CO (g/mi)			1	G+NOx /mi)	CO (g/mi)	NMOG+NO (g/mi)		- 1	CO /mi)	PM (mg/mi)	
@4K		*	CERT		г *		*				*	*							
		S		STD		*		*			*		*						
				CERT		*		*	0	)		*	*	0.030			).9	*	
@ UL		OLINE- R3 E10 STD		STD	D *		* 6		5	*				0.077		1.2	*		
				BIN											0.070	6			
			WHO	OLE VI	EHICI	E EV			EHICLE	Contraction of the local division of the loc	a second s	Construction of the local division of the lo	CERTIFIC	4110	NLEVE	_3			
									1	EVAP					R	L (a/r	ni) @	UL	
EVAP	AMILY				/PE	3	DHS (g	g/test) @ UL			2DHS (g/test)		:) @ UL						
						CER	T S	STD	FEL	CE	RT STD		FEL		CERT		r std		
	MHYXR0133LHG		I	ASOLII LEV3 E	3 E10 0.248 0.		.300	*	0.1			*			01 0.05				
(	ORVR	R / FUI	EL C	DNLY /	CAN	STER	BLEED	EVAP	ORATIVE	EEMI	SSION	STANDA	RDS AND	) CEI	RTIFICA	TION	LEVE	LS	
EVAP				ORVR	R (g/gallon) @ UL						FUEL ONLY EVA DHS RIG TEST (g/test) @ UL		2DHS	2DHS RIG (g/test) @		BLE	ED CANISTER T (g/test) @ 4K		
"			FU	EL TYI	PEC	CERT STD					CERT STD		CERT	1	STD	CEI	रा	STD	
MHYXI	R0133	3LHG	GA	SOLINI ER3 E	E- (	0.00	0.20	GASOLINE- LEV3 E10			* *		*		*		11	0.020	

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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)										
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD							
MHYXR0133LHG	MHYXR0133LHG-TL2	0.00	0.02							
MHYXR0133LHG MHYXR0133LHG-TL2 0.00 0.02   *: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT: 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: medium- duty 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; 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; AlR/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 free heater; F/P/\$; full/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%" ethano										

2021 MODEL YEAR: VEHICLE MODELS INFORMATION										
MAKE MODEL		VEH CLASS	ENGINE (L) TRANS TYPE		EVAPORATIVE FAMILY	EXH ECS	OBD			
HYUNDAI	TUCSON AWD	PC	2.4	SA6	MHYXR0133LHG	1	F			
HYUNDAI	TUCSON FWD	PC	2.4	SA6	MHYXR0133LHG	1	F			