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: The following vehicles produced by the manufacturer are certified as plug-in hybrid electric vehicles pursuant to Title 13, California Code of Regulations (13 CCR) Sections 1961 or 1961.2, 1962.2, 1976, 1978 and the incorporated test procedures. Production vehicles shall be in all material respects the same as those for which certification is granted.

				TEST GR	OUP IN	FORMAT	ION					
MODE	- I T	EST GROUP	VEHIC	ES)	FUEL CATEGORY				FUEL TYPE			
2020	LI	YXV01.6P2T				IN HYBRID IC VEHICLE		GASOLINE				
	USEFUI	L LIFE (miles)	VEH	ICLE EMIS	SION C	ATEGOR	Y	INTERIM / INT	ERM	MEDIATE IN-USE STD		
EXH	ORVR	EVAP		FTP		SFTP FTP			SFTP			
15	0000	150000	LEV3	SULEV30	LEV	3 COMPO	SITE	*		*		
SPE	CIAL FI	EATURES & EXI SYS	HAUST EMISSIO	ON CONTRO	OL		OBD S	TATUS	EN	NGINE DISPLACEMEN (L)		
1 1	DFI, W	R-HO2S, HO2S	, WU-TWC, TW	C, EGR, E	GRC	FULL AI		ALL MODELS				
*			*		PART	IAL	*		1.6			
*			*		PARTIAL WITH FINES		TH *					
1		EV	APORATIVE &	REFUELING	G (EVA	P/ORVR)	FAMIL	Y INFORMATION				
EVA	P / ORV	R FAMILY	EVAPORATIVE	STD CATE	GORY			SSION STD E CLASS	S	PECIAL FEATURES		
I	HYXRO	L10P2G	LEV 3	OPTION2			PC			HCT		
			E	MISSION C	REDIT	INFORM	ATION					
ALLOWANCE FOR TEST GROUP AVE. CREDIT FO					T FOR NON-PZEV ZERO			INMOG CREDITEC		OR OPTIONAL EXH. STE FOR WORK TRUCKS		
	TZ	ZEV	EXTENDED W			EVAF						
ALL MODELS N						N N				N		
			NMOG	AND FLEE	TAVE	RAGE INF	ORMA	TION				
NMOG RAF	AF RAF NMOG/NMHC RATIO PC+LDT		PC+LDT	OX FLEET STD (0-3750 LVW) (g/mi)					NMOG+NOX FLEET ST MDV (10,001-14,000 GVWR) (g/mi)			
*	*	1.10	*		0.065			0.074	1	*		

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 at El Monte, California on this _____ day of December 2019.

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



HYUNDAI MOTOR COMPANY Executive Order: A-254-0441 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

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

1	FUEL	TYPE

			NMOG+NOx (g/mi)		CO (g/mi)			NOx (g/mi)		HO /mi)	PM (g/mi)		
			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
FTP@50K		*	*	*	*	*	*	*	*	*	*	*	
FTP@UL	GASOLINE- TIER3 E10		0.015	0.030	0.2	1.0	+	*	+	4	+	0.01	
50°F @4K	GASOLINE- TIER3 E10		0.020	0.060	0.2	1.0	*	*	+	8			
				FUEL TYP	F		NN	NMOG+NOx (g/mi)			CO (g/mi)		
				FUELTTP	5		CEI	RT	STD	CER	T	STD	
HWFET @	50K			*			*		*				
HWFET @ UL			GASOI	LINE-TIEF	R3 E10		0.0	05	0.030			7 5	
20°F@5	OK	COLD	CO E10 RE	GULAR G	SOLINE	(TIER3)				0.9	9	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

			JE I	FEARA		_	STAND	ARDS	AND	CERTIFIC					
						US06				SC03		COMPOSITE			
	FUEL TY	PE		NMOG+ (g/mi		CO (g/mi)		M /mi)		OG+NOx (g/mi)	CO (g/mi)	NMOG+NO (g/mi)	x CO (g/mi)	PM (mg/m	
@ 4K	*		CERT	*		*				*	*			1	
-			STD	*		*	1251	1		*	*		1. 1924		
			CERT	*		* *		ł	+		*	0.014	0.2	*	
@ UL	@ UL GASOLINE- TIER3 E10				*		• •					0.083	4.2	+	
			BIN					1	-	11-		0.030	1.2100	1.	
		WH	OLE VEH	ICLE EV	APORA	TIVE E	MISSION	STAN	DAR	DS AND	ERTIFIC	ATION LEVE	LS		
					W	HOLE \	/EHICLE	EVAP	ORA	TIVE TEST	ING				
	ORATIVE	FUEL TYPE		E	3DHS (g/test) @ UL				2DI	HS (g/test)	@ UL	F	RL (g/mi) @ UL		
				CE	CERT S		FEL	CEI	RT	STD	FE	L CE	RT	STD	
LHYXR0110P2G			ASOLINE LEV3 E10	101	78 0	.300	*	0.2	03	0.300	+	0.0	00 0.05		
C	DRVR / FUI	EL O	NLY / C	ANISTER	BLEED	EVAP	ORATIVE	EMIS	SION	STANDA	RDS ANI	CERTIFICA	TION LEVE	ELS	
								FL	JEL C	ONLY EVA	P & CAN	ISTER BLEE	D		
EVAPORATIVE FAMILY		ORVR (g/gallon) @ UL				HS RIG TEST g/test) @ UL					CANISTER test) @ 4K				
		FUI	EL TYPE	CERT	STD				RT	STD	CERT	STD	CERT	STD	
LHYXF	0110P2G		SOLINE- ER3 E10	0.03	0.20		*			*	*	*	*	*	

Executive Order: A-254-0441 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4

	E LEAK DIAMETER STAND		1
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
LHYXR0110P2G	LHYXR0110P2G-AEP	0.00	0.02
LDT<6000#GVWR,3751-5756 8500#ALVW; MDV: medium-c duty passenger vehicle; HDV: emission limit; GVWR: gross ULEV: ultra LEV; SULEV: sup ADSTWC: adsorbing TWC; H SCRC/SCR-N or SCRC-NH3: continuous/periodic trap oxidia neated/oxygen sensor; WR-H RDQS: reductant quality sens EGRC: EGR cooler; AIR/AIRE fuel injection; DFI/IFI: direct/in full/partial/partial with fines on prefix 2: parallel; (2) suffix: se device (ex. DPF-SCRC: SCR ethanol ("15%"gasoline) fuel; automatic transmission; CV: automated manual transmissi	0#LVW; LDT3: LDT 6001-8500#G duty vehicle; MDV4: MDV 8501-10 heavy-duty vehicle; ECS: emission vehicle weight rating; LVW: loaded ber ULEV; ZEV: zero-emission veh AC: HC adsorbing catalyst; WU: v selective catalytic reduction-urea zer; DPF: diesel particulate filter (i O2S or AFS: wide range/linear/he or; NH3S: ammonia sensor; EGR E: secondary air injection (belt driv direct fuel injection; TC/SC: turbo -board diagnostic; DOR: direct oz ries; a hyphen (-) between after the coated DPF); CNG/LNG: compre- E10: "10%" ethanol ("90%"gasolin continuously variable transmission on; AMS: automated manual-sele /: plug-in hybrid electric vehicle; N	WR,3751-5750#ALVW; LDT 0000#GVWR; MDV5: MDV 100 on control system; CERT: cert d vehicle weight; ALVW: adjus nicle; TZEV: transitional ZEV; varm-up catalyst; NAC: NOX a /armonia; NH3OC: ammonia active); GPF: PM filter for spar tated air-fuel ratio sensor; NO2 : exhaust gas recirculation; HF ren)/(electric driven); PAIR: pu /super charger; CAC: charge a one reducing; HCT: hydrocarb eatment ECS indicates multipl ssed/liquefied natural gas; LPC re) fuel; A: automatic (with lock n; SCV: selectable continuousl ctable transmission; OT: other	001-14000#GVWR; MDPV: medium- ification; STD: standard; FEL: family ted LVW; LEV: low emission vehicle; TWC/OC: 3-way/oxidizing catalyst; adsorption catalyst; SCR-U or oxidation catalyst; CTOX/PTOX: rk-ignited engine; HO2S/O2S: XS: NOx sensor; PMS: PM sensor; P/LP EGR: High/Low Pressure EGR; ilsed AIR; SFI/MFI: sequential/multipo air cooler; FFH: fuel fired heater; F/P/3 bon trap; BCAN: bleed carbon canister le functionalities of the after treatment G: liquefied petroleum gas; E85: "85% (sup); M: manual transmission; SA: ser ly variable transmission; AM:

2020 MODEL YEAR: VEHICLE MODELS INFORMATION

MODEL NUMBER	MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
1	HYUNDAI	IONIQ PLUG-IN HYBRID	PC	1.6	AM6	LHYXR0110P2G	1	F

ELECTRIC RANGE AND ZEV ALLOWANCE INFORMATION

MODEL	PHEV TYPE	UDDS AER	UDDS EAER	US06 AER	HIGHW	ZEV	
NUMBER	PHEVITPE	(MILES)	(MILES)	(MILES)	AER	EAER	ALLOWANCE
1	TZEV	43.0	43.2	*	39.2	38.4	0.73