

HYUNDAI MOTOR COMPANY

Executive Order: A-254-0434

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

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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 GROUP INFORMATION													
MOD YEA		EST GROUP		VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE			
202	0 LF	IYXV02.5ER3			PC				SINGLE FUEL HICLE	GASOLINE			
	USEFUL	LIFE (miles)		VEH	VEHICLE EMISSION CATEGORY				INTERIM / IN	TERM	RMEDIATE IN-USE STD		
EXH/ORVR EVAP				FTP SF			TP	FTP		SFTP			
1	150000 150000			LEV3	SULEV30	ULEV30 LEV 3 COMPC			PM		PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS								OBD STATUS			ENGINE DISPLACEMENT (L)		
1	DFI, SFI, WR-HO2S, HO2S, WU-TWC, TWC, EGR, EGRC							FULL	ALL MODELS				
* * PARTIAL									* *		2.5		
*	* *							TIAL WITH					
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR						GORY		EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
	LHYXR01	.25ERG	LEV 3	LEV 3 OPTION2			PC			HCT			
				E	EMISSION CI	REDIT	INFO	ORMATION					
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON- ZERO-EVAP						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/NMHO RATIO	нс	HCHO/NMHC RATIO NMOG+NOX FLE PC+LDT (0-375 (g/mi)									
*	*	1.10		*	0	.065	65 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.

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

Executed at El Monte, California on this 2577 day of October 2019.

Allen Lyons, Chief

Emissions Certification and Compliance Division



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ATTACHMENT

							A	HAC	HIVI	ENI								
	EXHA	NUS.	TAN) EV	APOF	RATIVI	EEMIS	SSION	STAI	NDAR	DS AND	CERT	IFIC/	ATION	LEVELS	3		
		EXH	AUST	EMIS	SION	STANDA	ARDS A	ND CER	TIFIC	ATION	LEVELS	(FTP, HW	/FET,	50°F, 2	0°F)			
n a C				mono: adjust ORVF	xide; Normant fa R [g HC	Ox: oxid actor; 20 /gallon (es of nit DHS/3DI dispense	rogen; F HS [g HC ed]: on-b	ICHO: C/test]: oard re	formale 2/3 day efueling	dehyde; P ys diurnal	M: particu +hot-soak covery; g:	ulate n ; RL [gram	natter; F g HC/mi ; mg: mi	HC; CO: ca RAF: reacti]: running l Iligram; mi al FTP	vity loss;		
				NI	MOG+N (g/mi)			CO (g/mi)			NOx g/mi)		HCH(-	-	M mi)		
				CEF	<u> </u>	STD	CERT		D	CERT	STD	CER		STD	CERT	STD		
FTP@5	0K	*		*		*	*	*		*	*	*		*	*	*		
FTP@l	JL TIE	L GASOLINE- TIER3 E10		0.0	18 (0.030	0.3	1.	0	*	*	*		4	0.000	0.003		
50°F @	1KI	SOLINE- ER3 E10		0.0	15 (0.060	0.2	1.	0 .	*	, *	*		8				
	Applie Applied			FUEL TYPE						NMOG+NOx (g/mi)				CO (g/mi)				
			FUEI				PC			CERT		STD		CERT		STD		
HWFE	Г @ 50K			*							*	*			t di a			
HWFE	T@UL			GASOLINE-TIER3 E10						0.	0.010 0.030			A second				
20°F	20°F @ 50K COLD CO E1			E10	E10 REGULAR GASOLINE (TIER3)					and the state of t				0.6 10.0				
			5	SFTP	EXHAU	JST EM	ISSION	STAND	ARDS	AND C	ERTIFIC	ATION LI	EVEL	S				
		EL TYPE					JS06	306			SC03				OMPOSITE			
100	FUEL T			NI	MOG+N (g/mi)		CO (g/mi)		M g/mi)		G+NOx /mi)	CO (g/mi)		OG+NO: g/mi)	CO (g/mi)	PM (mg/mi)		
@ 4K	*	*		* CERT		Г	* *			*		*						
•				STD *			*				*		13766年1466			黄 海色病		
	UL GASOLINE- TIER3 E10 BIN		Г	*		*		2		*	*	0	.021	0.4	*			
@ UL			STD	-	*		*		6		*	*	0	.083	4.2	*		
			BIN	1-365						11.6%		1,1000,000	0	.030	. **********			
		WI	IOLE V	/EHIC	LE EV	APORA	TIVE E	MISSION	STA	NDARE	S AND C	ERTIFIC	ATIO	LEVE	LS			
E)/45	on . = :: :-			WHOLE VEHICLE EVAI						PORAT	IVE TEST	ING		DI (ale: ") O III				
	EVAPORATIVE FAMILY		I FUEL LYE		FUEL TYPE		YPE 3DHS (g/test) @ UL					2DHS (g/test) @ l			D UL		RL (g/mi) @ UL	
					CERT S		STD FEL		CE	ERT STE		FEL	-	CERT		STD		
LHYXR0125ERG		2	EASOLI LEV3	10 186 1 0		.300	*	0.2	203	0.300	*		0.01 0		0.05			
C	RVR / F	UEL	ONLY	CAN	ISTER	BLEED	EVAPO	ORATIV	E EMI	SSION	STANDA	RDS AND	CER	TIFICA	TION LEV	ELS		
														ER BLEED				
EVAPORATIVE FAMILY		E ORVR (R (g/gallon) @ UL			FUEL TYPE			OHS RIG TEST (g/test) @ UL		2DHS RIG TES (g/test) @ UL			BLEED CANIST TEST (g/test) @			
		FL	JEL TY	PE	CERT	STD			CE	RT	STD	CERT		STD	CERT	STD		
LHYXR	.0125ER		SOLIN ER3 E		0.01	0.20		LINE- 3 E10		*	*	*		*	0.004	0.020		



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD						
LHYXR0125ERG	LHYXR0125ERG-DN1	0.00	0.02						

*: 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; 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											
AKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD				
ND A T	SONATA	PC	2.5	SA8	LHYXR0125ERG	1	F				