

HYUNDAI MOTOR COMPANY

Executive Order: A-254-0442

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Page 1 of 4

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	VEHICI	LE CLASS(ES)			FUEL C	ATEGORY	FUEL TYPE		
2020	LH	YXV02.0E13		PC				ELECTRIC HICLE	GASOLINE		
	USEFUL	LIFE (miles)	VEH	ICLE EMIS	SION C	ATEGO	RY	INTERIM / INT	ERMEDIATE IN-USE STD		
EXH	/ORVR	EVAP	3.78	FTP S			iberal S	FTP	SFTP		
150000 150000			LEV3	SULEV30	LEV	3 COMP	OSITE	PM	PM		
SPE	CIAL FE	EATURES & EXH SYS	AUST EMISSIC	ON CONTRO	DL	4	OBD S	TATUS	ENGINE DISPLACEMENT		
1 1	DFI, W	R-HO2S, HO2S	WU-TWC, TWO	C, EGR, E	GRC	FU	JLL ALL MODELS		3 112 4 1 1 2 2 1		
*	*						TIAL	*	2.0		
*			*			PARTIAL WITH *					
		EV	APORATIVE &	REFUELING	G (EVA	PIORVR	FAMILY	INFORMATION			
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY								SSION STD E CLASS	SPECIAL FEATURES		
I	HYXR01	18E1G	LEV 3	LEV 3 OPTION2			P	c	HCT		
				EMISSION C	REDIT	INFORM	MATION				
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NO						NMOG CR		REDIT FOR DOR	OPTIONAL EXH. STD FOR WORK TRUCKS		
. и и								N	N		
			NMOG	AND FLEE	T AVE	RAGE IN	FORMA	TION			
NMOG RAF	NIMOG/NIMILO 1				0 LVW) LDT (375		+NOX FLEET ST (3751 LVW-8500 R) + MDPV (g/mi)	NMOG+NOX FLEET ST MDV (10,001-14,000 GVWR) (g/mi)			
*	*	1.10	*		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.)



HYUNDAI MOTOR COMPANY

Executive Order: A-254-0442

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Page 2 of 4

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

Allen Lyons, Chief

Emissions Certification and Compliance Division

day of January 2020.



HYUNDAI MOTOR COMPANY

Executive Order: A-254-0442 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

ATTACHMENT

							A	IIAC	LINI	CIAI	V WELL	15484					
	EXHA				the property				-					-	LEVELS	3	
		EXH										(FTP, HV					
	FUI	L TY	m a O	onoxid djustme RVR [g	ent fa	Ox: oxid ctor; 2D gallon o	es of nit HS/3DH lispense	rogen; H HS [g HC ed]: on-bo	CHO: /test]: pard re	formald 2/3 day fueling	ehyde; P s diurnal vapor rec	M: partice	ulate r ; RL [gram	natter; R g HC/mi] ; mg: mil	IC; CO: ca AF: reactive: running le ligram; mi:	vity oss;	
					OG+N g/mi)			CO (g/mi)			Ox /mi)	7 7 - 1	HCH(The same of the sa		M mi)	
				CERT	10	STD	CERT	ST	D	CERT	STD	CER	T	STD	CERT	STD	
FTP@50	K	*	10 19	*	3		*		119	*			1871 3	*	*	*	
FTP@U		GASOLINE- TIER3 E10		0.010	0	.030	0.1	1.	0	*	*	*	4		0.001	0.003	
50°F @4	IK!	GASOLINE- TIER3 E10		0.026	0	.060	0.4	1.	0	* .	*			8			
				13.	EIII	EI TVD	E	2500	5	N	MOG+NO	Ox (g/mi)		NA SI	CO (g/mi)		
				FUEL TYPE					CE	CERT STD			CERT ST		STD		
HWFET	@ 50K			*							*						
HWFE'	T@UL			GASOLINE-TIER3 E10					E 34	0.	0.03						
20°F (@ 50K	CC	DLD CO	E10	REGU	LAR G	ASOLIN	E (TIEF	23)					0.8		10.0	
			S	FTP E	XHAL	JST EM	ISSION	STAND	ARDS	AND C	ERTIFIC	ATION L	EVEL	S			
			Fals.			ı	JS06			SC03				COMPOSITE			
	FUEL TYPE			NMOG+NOx (g/mi)		CO PM (g/mi) (mg/m			NMOG+NOx (g/mi)		CO (g/mi)	-		CO (g/mi)	PM (mg/mi)		
@ 4K	*		CERT	RT *							*						
		s		D *		*				*	*						
		GASOLINE- FIER3 E10 ST		RT *		* 0		0	*		*	0.009		0.2	*		
@ UL					*		*		6		*	*	0	.083	4.2	*	
	Bi		BIN										0	.030			
		WH	IOLE V	EHICL	E EV							ERTIFIC	ATIO	LEVEL	.S		
						W	HOLE V	EHICLE	EVAF	PORATI	VE TEST	ING			4-4-11-		
EVAPORATIVE FAMILY		LY FUEL TYP		YPE 3DHS (g/t			/test) @ UL		2DHS (g/test)		@ UL		RL (g/mi) @) UL		
					CER	CERT STD		FEL	CE	RT STD		FE	L	CER	Т	STD	
LHYXR0118E1G			LEV3 E	E10 0.224 0		. 300	*	0.3	182	0.300	300 *		0.00				
C	RVR / F	UEL	ONLY /	CANIS	STER	BLEED	EVAP	ORATIVI							TION LEVI	ELS	
			00:-									P & CAN				ANIOTEE	
EVAPORATIVE FAMILY			ORVR (g/gallon) (g UL	FUEL TYPE			3DHS RIG TE (g/test) @ U		2DHS RI (g/test)			BLEED CA		
		_	JEL TY	_	ERT	STD			CI	CERT STD		CERT	STD		CERT	STD	
LHYXR0118E1G			SOLIN ER3 E	1 0	.01	0.20	1	OLINE-		* *		*	*		0.013	0.020	



HYUNDAI MOTOR COMPANY

Executive Order: A-254-0442

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 4 of 4

EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)								
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD					
LHYXR0118E1G	LHYXR0118E1G-DNH	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

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	ECS	OBD
HYUNDAI	SONATA HYBRID	PC	2.0	AMS6	LHYXR0118E1G	1	F
HYUNDAI	SONATA HYBRID BLUE	PC	2.0	AMS6	LHYXR0118E1G	1	F