

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-14-012;

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 GRC	UP II	NFOR	MATION					
MODE	- I T	EST GROUP	VEHICLE CLASS(ES)					FUEL C	ATEGORY		FUEL TYPE		
2019) KI	IYXV02.0EG5			PC			DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
USEFUL LIFE (miles) VEHICLE EMISSION							ATE	GORY INTERIM / INTERMEDIATE IN-USE STO					
EXH	I/ORVR	EVAP			FTP	P SFTP FT					SFTP		
150000 150000 LEV3 ULEV						LEV	3 COMPOSITE NMOG+NOX				*		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						L		OBD S	TATUS	E	ENGINE DISPLACEMENT		
1	DF	I, WR-HO2S, H	102S,	, TC, CAC			FULL	*					
*	-		*				P	ARTIAL	ALL MODELS	LL MODELS 2.0'			
*	*							TIAL WITH	*				
		EV	APOF	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMIL	INFORMATIO	N			
EVA	P / ORV	R FAMILY	EVA	PORATIVE	E STD CATE	GORY	,		SSION STD E CLASS	S	SPECIAL FEATURES		
I	KHYXR01	43EGG		LEV 3	OPTION1			P	PC HCT				
				I	EMISSION CI	REDIT		RMATION					
	NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY						ZEV	NMOG CI	REDIT FOR DO	OPTIONAL EXH. STD FOR WORK TRUCKS			
	N N								N N				
				NMOG	AND FLEET	AVE	RAGE		FION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO			DC4LDT /0_3750						D NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)		
*	*	1.10		*	0	. 072			0.083		*		

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 August 2018.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division



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

FUEL	TYPE

ļ																	
					G+NOx mi)	[CO (g/mi)		-	NOx 3/mi)		HCH (mg/			Pl (g/r	
				CERT	ST	D	CER	г ѕт	D	CERT	STE	CER	Т	STD	CE	RT	STD
FTP@5	ок	*		*	*		*	. *		*	*	*		*		*	*
FTP@l		SOLIN ER3 E	1 0	0.044	0.0	70	0.2	1.	7	*	*	*	*			*	0.01
50°F @4K GASOLINE- TIER3 E10				0.042	0.1	40	0.1	1.	7	*	*	*		16			
					FUEL	ТҮР	E					Ox (g/mi)				(g/mi)	
											ERT	STD		CEF	RT		STD
HWFE	T @ 50K				*						*	*				L	
HWFE	T @ UL			GASO	LINE-	TIEF	3 E10			0.	019	0.070)				
20°F	@ 50K			GASO	LINE-	TIER	3 E10							0.4	4	:	L0.0
			SF	TPEX	AUST	EM	ISSION	STAND	ARDS	AND C	ERTIFIC	CATION LE	EVE	LS			
						L	JS06				SC03	3 CO	ļ			IPOSITE	
	FUEL 1	UEL TYPE			lOG+NOx (g/mi)		CO (g/mi)	-			NMOG+NOx (g/mi)		NMOG+NOx (g/mi)			CO g/mi)	PM (mg/mi)
@ 4K	@ 4K *		CERT		*		*	*			*	*	*				
		ST			*		*			*		*					
		CER		т *			* *		*		*	*		0.047		0.2	*
@ UL	GASOL LEV3		STD		*		*		*		*	*		0.090		4.2	*
			BIN										0				
		WH	IOLE VE	HICLE	EVAP							CERTIFIC	ATIC	DN LEVE	LS		
		_				WH	IOLE V	EHICLE	EVAP	ORATI	VE TES	TING			1 1-1-1-		
	PORATIVE FUEL TYPE		PE	3DHS (g/test) @ UL					2DHS (g/test) @ UL				RL		(g/mi) @ UL		
				(ERT	S	TD	FEL	CE	RT	STD	FEL		. CEF			STD
KHYXR0143EGG		<u>cı</u>	ASOLIN LEV3 E1	- 10	.258	0.	350	*	0.2	287	0.350	*		0.02		0.05	
C	DRVR / F	UEL (ONLY/C	CANIST	ER BL	EED	EVAPO	ORATIV	EEMIS	SSION	STANDA	RDS AND) CE	RTIFICA	TION	LEVE	LS
												P & CAN					
		VE ORVR (g/gal		g/galloi			*			HS RIG TEST g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K			
		FU	IEL TYP	E CEF	≀T S	TD			CE	RT	STD	CERT		STD	CEF	RT	STD
KHYXF	0143EG	<u>cı</u>	SOLINE ER3 E1	100	2 0	20	1	OLINE- 3 E10	0	.0	0.0	0.0		0.0	*		*

	FORNIA DURCES BOARD	HYUNDAI MOTOR New P COMPANY			Executive Order: A-254-0393 ssenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4				
EFFECTI	E LEAK DIAMETER	STA	NDARD AND CER	RTIFICATION L	EVEL (INCHES)				
EVAPORATIVE FAMILY	LEAK FAMILY		CER	т	STD				
KHYXR0143EGG	KHYXR0143EGG-LF	1	0.0	D	0.02				
8500#ALVW; MDV: medium- duty passenger vehicle; HDV emission limit; GVWR: gross ULEV: ultra LEV; SULEV: su ADSTWC: adsorbing TWC; H SCRC/SCR-N or SCRC-NH3 continuous/periodic trap oxidi neated/oxygen sensor; WR-H RDQS: reductant quality sens secondary air injection (belt of direct/indirect fuel injection; T fines on-board diagnostic; DO suffix: series; CNG/LNG: com E10: "10%" ethanol ("90%"ga continuously variable transmi	duty vehicle; MDV4: MD (: heavy-duty vehicle; EC vehicle weight rating; LV per ULEV; ZEV: zero-err IAC: HC adsorbing catal : selective catalytic redu izer; DPF: diesel particul 102S or AFS: wide range sor; NH3S: ammonia ser Iriven)/(electric driven); F C/SC: turbo/super chargo DR: direct ozone reducin hpressed/liquefied natural isoline) fuel; A: automatic ission; SCV: selectable of	V 850 S: em /W: lo nission yst; V ction- ate fil e/linea nsor; I PAIR: ger; C, g; HC al gas c (with continu	01-10000#GVWR; M hission control system aded vehicle weight n vehicle; TZEV: tran VU: warm-up catalys urea/ammonia; NH3 ter (active); GPF: PM ar/heated air-fuel rati EGR: exhaust gas re pulsed AIR; SFI/MFI AC: charge air coole T: hydrocarbon trap ; LPG: liquefied petro n lockup); M: manual uously variable trans	DV5: MDV 1000 m; CERT: certific sitional ZEV; TV t; NAC: NOx ads OC: ammonia ox f filter for spark-i o sensor; NOXS circulation; EGR : sequential/mult r; FFH: fuel fired BCAN: bleed ca bleum gas; E85: transmission; S mission; AM: au	tidation catalýst; CTOX/PTOX: gnited engine; HO2S/O2S: : NOx sensor; PMS: PM sensor; C: EGR cooler; AIR/AIRE:				

2019 MODEL	YEAR: VE		ODELS INF	ORMATION	
 1		1			EVU

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
HYUNDAI	SONATA	PC	2.0	SA8	KHYXR0143EGG	1	P