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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-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 GRO	NI QLIC	JEOP	MATION						
MOD	=1				TEST GRC	יטר ווי	T			I				
MOD! YEA	I TI	EST GROUP		VEHICLE CLASS(ES)			FUEL CATEGORY				FUEL TYPE			
201	в јн	YXV02.4AJ3			PC				SINGLE FUEL HICLE		GASOLINE			
	USEFUL	LIFE (miles)		VEH	IICLE EMISS	ION C	ATE	GORY	INTERIM / IN	TER	MEDIATE IN-USE STD			
EXI	H/ORVR	EVAP			FTP		SF	TP	FTP		SFTP			
1	50000	150000		LEV3	SULEV30	LEV	3 CC	MPOSITE	*		*			
SPI	ECIAL FE	ATURES & EX	HAU: TEM		ON CONTRO	L		OBD S	TATUS	EI	NGINE DISPLACEMENT (L)			
1	D	FI, WR-HO2S	но	2s, WU-TW	C, TWC			FULL	*					
*	* *						Р	ARTIAL	ALL MODELS		2.4			
*	* *						1	TIAL WITH FINES	*	*				
		E\	/APC	RATIVE &	REFUELING	(EVA	P/OR	VR) FAMILY	INFORMATION	1				
EV	AP / ORV	RFAMILY	EVA	PORATIVE	STD CATE	D CATEGORY E			SSION STD E CLASS	s	SPECIAL FEATURES			
	JHYXR01	40AHG		LEV 3	OPTION1		PC				HCT			
					EMISSION C	REDIT	INFO	RMATION						
	REDIT FO	X FLEET AVE. OR EXTENDED RRANTY			EDIT FOR N ZERO-EVAP	OR NON-PZE\ VAP		NMOG CREDIT FOR DO		R	OPTIONAL EXH. STD FOR WORK TRUCKS			
		S			N				N		N			
				NMOG	AND FLEET	T AVE	RAGI	INFORMA	TION					
NMOG RAF					750 LVW) LDT (3751 LVV		+NOX FLEET S (3751 LVW-8500 R) + MDPV (g/m)	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)					
*	*	1.10		*	0	.079			0.092		*			

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).

BE IT FURTHER RESOLVED:

Hyundai models Sonata and Sonata SE are offered with an extended warranty of 150,000 miles or 15 years, whichever occurs first. These models will generate additional NMOG + NOx Fleet average credits per 13 CCR Section 1961.2(a)(9) ["Requirement to Generate Additional NMOG + NOx fleet Average Credit."].

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations. This Executive Order hereby cancels and supersedes Executive Order A-254-0356-1 dated January 4, 2018.

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

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Emissions Compliance, Automotive Regulations and Science Division



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ATTACHMENT

THE PARTY OF THE P	DELENATION LEVELO
EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CE	RIFICATION LEVELS

EXHAUS!	TEMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50 F, 20 F)	
	CHA mothers, NIMOC; per CHA essenie see; HC; hydrosethen; NIMUC; per CHA HC; CO; o	-

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

		NMOG+NOx (g/mi)				NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE- TIER3 E10	0.012	0.030	0.4	1.0	*	*	*	4	*	0.01
50°F @4K	GASOLINE- TIER3 E10	0.010	0.060	0.2	1.0	*	*	*	8		

	FILE TYPE	NMOG+N	lOx (g/mi)	CO (g/mi)		
FUEL TYPE	CERT	STD	CERT	STD		
HWFET @ 50K	*	*	*			
HWFET @ UL	GASOLINE-TIER3 E10	0.007	0.030	-		
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			1.3	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

				US06			3	COMPOSITE		
	FUEL TYPE		NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*	*	*	*			
		STD	*	*		*	*			
		CERT	*	*	*	*	*	0.015	1.0	*
@ UL	GASOLINE- TIER3 E10	STD	*	*	*	*	*	0.097	4.2	*
		BIN						0.030		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test) (@ UL	2D	HS (g/test) @	, RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
JHYXR0140AHG	GASOLINE- LEV3 E10	0.258	0.350	*	0.287	0.350	*	0.02	0.05

ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

				FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K				
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD			
JHYXR0140AHG	GASOLINE- TIER3 E10	0.02	0.20	GASOLINE- LEV3 E10	0.0	0.0	0.0	0.0	*	*			



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EFFECTIV	E LEAK DIAMETER STAND	ARD AND CERTIFICATION L	LEVEL (INCHES)
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
JHYXR0140AHG	JHYXR0140AHG-LF1	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#GWR,3751-5750#LWW; LDT3: LDT 6001-8500#GWR,3751-5750#ALWW; LDT4: LDT 6001-8500#GWR,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; GWWR: 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; 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; 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

2018 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	ECS	OBD
HYUNDAI	SONATA	PC	2.4	SA6	JHYXR0140AHG	1	P
HYUNDAI	SONATA SE	PC	2.4	SA6	JHYXR0140AHG	1	P
KIA	OPTIMA	PC	2.4	. SA6	JHYXR0140AHG	1	P
KIA .	OPTIMA FE	PC	2.4	SA6	JHYXR0140AHG	1	P
KIA	OPTIMA S	PC	2.4	SA6	JHYXR0140AHG	1	P