

HYUNDAI MOTOR COMPANY

Executive Order: A-254-0398

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-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 GR	OUP IN	NFORM	IATION				
MODE		EST GROUP	VEHICLE CLASS(ES)			FUEL C	ATEGORY	FUEL TYPE			
2019	KE	IYXV01.4CD6	PC D				SINGLE FUEL	GASOLINE			
	USEFUL	LIFE (miles)	VEH	ICLE EMISS	SION	ATEG	ORY	INTERIM / INT	ERMEDIATE IN-USE STD		
EXH/ORVR EVAP				FTP S			FTP FTP		SFTP		
150000 150000			LEV3	ULEV125	LEV	3 CO	POSITE	*	*		
SPE	CIAL FE	ATURES & EXI	AUST EMISSION	ON CONTRO	DL		OBD ST	TATUS	ENGINE DISPLACEMENT		
1 DFI, WR-HO2S, HO2S, WU-TWC, TWC, TC, CAC							FULL	ALL MODELS			
*.	•						RTIAL	+	1.4		
*			*				PARTIAL WITH *				
		EV	APORATIVE &	REFUELING	G (EVA	P/ORV	R) FAMILY	INFORMATION			
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR						VEHICLE CLASS			SPECIAL FEATURES		
P	KHYXR01	30CDG	OPTION2		PC		*				
				EMISSION C	REDIT	INFO	RMATION				
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY NMOG CREDIT FOR NON ZERO-EVAP							NMOG C	REDIT FOR DOR	OPTIONAL EXH. STD FOR WORK TRUCKS		
N N								N	N		
			NMOG	AND FLEE	TAVE	RAGE	INFORMAT	TION			
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	DG/NMHC HCHO/NMHC PC+LDT (0-375								
*	*	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.)



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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

day of September 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



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						A	TTAC	НМ	ENT										
EXH	HAU	ST	AND E	VAPOR	ATIVE	EMIS	SION S	STAN	DARI	OS AND	CERTI	FICA	TION	LEVELS	3				
	E	(HA	UST EM	ISSION S	TANDA	RDS A	ND CERT	TIFICA	TION	EVELS	(FTP, HW	FET,	50°F, 20°	°F)					
F	FUEL TYPE		mor adju OR	noxide; No stment fa VR [g HC/	Dx: oxide octor; 2D gallon d	es of nitr HS/3DH lispense	rogen; Ho IS [g HC/ d]: on-bo	CHO: (test): 2	formald 2/3 day fueling	ehyde; P s diurnal· vapor red	M: particu +hot-soak; covery; g:	RL (gram)	natter; RA g HC/mi]: ; mg: milli	AF: reactive running leading mit in the control of	rity oss;				
								(CO g/mi)				1				M mi)		
			C	ERT	STD	CERT	STE) (CERT	STD	CER	Г	STD	CERT	STD				
K		OK *		50K		*		*	*	*	*		*	*	*		*	*	*
	GASOLINE- LEV3 E10		1 0 04		0.125	0.2	2.1	1	*	*	*		4	*	0.01				
EUOE WAR		1 0		028	.250	0.1	2.1	L	*	*			16						
				FUEL TYPE															
		_							-			-	CERT		STD				
@ 50	K				*					*	*								
T @ U	L			GASOLI	NE-LEV	3 E10			0.	026	0.125		,						
@ 50K			GASO	LINE-CO	LD CO	LOW OC	TANE			3			0.5		10.0				
			SFT	P EXHA	JST EM	ISSION	STANDA	ARDS	AND C	ERTIFIC	ATION LE	VEL	S						
		US06							SC03			COMPOSITE							
FUEL	TYP	E				CO (g/mi)					CO (g/mi)			CO (g/mi)	PM (mg/mi				
4K *		CERT				*					*								
	S		STD	*		*					*								
(6)		ASOLINE- S		*		*	1	•		*	*	0	.040	0.2	*				
								*		*	'			*	*	0	.090	4.2	*
	BIN																		
	1	WHO	LE VEH	IICLE EV								ATIO	N LEVEL	S					
					WI	HOLE V	EHICLE	EVAP	ORATI	VE TEST	ING	_	-						
EVAPORATIVE FAMILY		PUELTYPE		TYPE 3DHS (g/test) @ UL															
				CE	RT STD		FEL	FEL CE		RT STD		-	CER	Г	STD				
KHYXR0130CDG		L	EV3 E1	10.1581 0			*												
DRVR	/ FUE	LO	NLY / C	ANISTER	BLEED	EVAPO	DRATIVE							-	ELS				
EVAPORATIVE		E ORVR (g/gallon) @ UL				30			OHS RIG TEST		2DHS RIG TE		TEST	T BLEED CANISTE					
MILY			I TYPE	E CERT STR											STD				
KHYKR0130CD		GAS		0.02	0.20	GASOLINE- LEV3 E10		1		*	*	+	*	0.006	0.020				
	GASO LEV ORATAMILY ORATAMILY ORATAMILY	FUEL OK * GASOL LEV3 AK GASOL LEV3 FUEL TYPE * GASOLINE LEV3 E1 ORATIVE AMILY ORATIVE AMILY ORATIVE AMILY	FUEL TYPE OK * OK GASOLINE LEV3 E10 FUEL TYPE * GASOLINE- LEV3 E10 WHO ORATIVE CORATIVE CORATIV	FUEL TYPE FUEL TYPE CH4 mor adju ORV 100 CI OK * UL GASOLINE- LEV3 E10 GASOLINE- LEV3 E10 FUEL TYPE CERT STD CORATIVE ORATIVE ORATIVE ORATIVE ORVR (GASOLINE- CORATIVE ORVR (GASOLINE- CORA	FUEL TYPE FUEL TYPE CH4: methan monoxide; No adjustment fa ORVR [g HC/1000 miles; Fe in the miles of the monoxide; No adjustment fa ORVR [g HC/1000 miles; Fe in the monoxide; No adjustment fa ORVR [g HC/1000 miles; Fe in the monoxide; No adjustment fa ORVR [g/mi] CERT FUEL TYPE FUEL TYPE GASOLINE- D. 0.042 FUEL TYPE GASOLINE- COMBON CO	FUEL TYPE FUEL TYPE CH4: methane; NMO monoxide; NOx: oxid adjustment factor; 2D ORVR [g HC/gallon of 1000 miles; F: degree NMOG+NOx (g/mi) CERT STD K * * CERT STD GASOLINE- LEV3 E10 FUEL TYPE FUEL TYPE FUEL TYPE GASOLINE-COLD CO SFTP EXHAUST EM FUEL TYPE FUEL TYPE NMOG+NOx (g/mi) CERT * STD * STD * CERT * STD * CERT * STD * GASOLINE- LEV3 E10 FUEL TYPE GASOLINE- LEV3 E10 CERT * STD * CERT * STD * GASOLINE- LEV3 E10 ORATIVE AMILY FUEL TYPE ORATIVE CORATIVE AMILY FUEL TYPE ORATIVE CORATIVE AMILY FUEL TYPE ORATIVE CORATIVE CORATIV	EXHAUST AND EVAPORATIVE EMIS EXHAUST EMISSION STANDARDS AN CH4: methane; NMOG: non- monoxide; NOx: oxides of niti adjustment factor; 2DHS/3DH- ORVR [g HC/gallon dispense 1000 miles; F: degrees Fahre NMOG+NOx (g/mi) (CERT STD CERT NMOG+NOX (g/mi) (CERT STD CERT AN * * * CERT STD CERT FUEL TYPE GASOLINE- LEV3 E10 0.042 0.125 0.2 FUEL TYPE GASOLINE- LEV3 E10 0.028 0.250 0.1 FUEL TYPE GASOLINE-COLD CO LOW OC SFTP EXHAUST EMISSION US06 NMOG+NOX (g/mi) (g/mi) CERT * * STD * CERT STD CORATIVE FUEL TYPE GASOLINE- LEV3 E10 ORATIVE ORVR (g/gallon) @ UL FUEL TYPE CERT STD CRAINE- CANADAR CRAIVE ORVR (g/gallon) @ UL FUEL TYPE CERT STD CRAINE- CANADAR CRAINE- CERT STD CORATIVE ORVR (g/gallon) @ UL FUEL TYPE CERT STD CRAINE- CANADAR CRAINE- CERT STD CORATIVE ORVR (g/gallon) @ UL FUEL TYPE CERT STD CRAINE- CANADAR CRAINE- CANADAR CRAINE- CERT STD CORATIVE ORVR (g/gallon) @ UL FUEL TYPE CERT STD CRAINE- CANADAR CRAINE- CANA	EXHAUST AND EVAPORATIVE EMISSION S EXHAUST EMISSION STANDARDS AND CERT CH4: methane; NMOG: non-CH4 orga monoxide; NOx: oxides of nitrogen; Hi adjustment factor; 2DHS/3DHS [g HC ORVR [g HC/gallon dispensed]: on-bot 1000 miles; F: degrees Fahrenheit; F1 NMOG+NOX (g/mi) CERT STD CERT STD CERT STD CERT STD AK * * * * CERT STD CERT STD EMIL CHYS E10 FUEL TYPE FUEL TYPE FUEL TYPE FUEL TYPE FUEL TYPE GASOLINE-LEV3 E10 FUEL TYPE FUEL TYPE AMOG+NOX (g/mi) CASOLINE-LEV3 E10 BASOLINE-COLD CO LOW OCTANE SFTP EXHAUST EMISSION STANDA GASOLINE- LEV3 E10 BIN WHOLE VEHICLE EVAPORATIVE EMISSION WHOLE VEHICLE CORATIVE AMILY FUEL TYPE CORATIVE C	EXHAUST AND EVAPORATIVE EMISSION STAN EXHAUST EMISSION STANDARDS AND CERTIFICA CH4: methane; NMOG: non-CH4 organic ga monoxide; NOx: oxides of nitrogen; HCHO: adjustment factor, 2DHS/3DHS [g HC/test]: aCH4: methane; NMOG: non-CH4 organic ga monoxide; NOx: oxides of nitrogen; HCHO: adjustment factor, 2DHS/3DHS [g HC/test]: aCH4: achieved in the control of the con	CHALTYPE	EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS CH4: methane, NMOG: non-CH4 organic gas; HC: hydrocar monoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; P adjustment factor; 2DH3DHS [g HC/hest]; 2/3 days diumality and monoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; P adjustment factor; 2DH3DHS [g HC/hest]; 2/3 days diumality and monoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; P adjustment factor; 2DH3DHS [g/mi] (g/mi) EVALUATE TYPE NMOG+NOX (g/mi) (g/mi) (g/mi) (g/mi) (g/mi) FUEL TYPE FUEL TYPE FUEL TYPE FUEL TYPE STD GASOLINE- O.028 0.250 0.1 2.1 * * * * * * * * * * * * * * * * * * *	EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HW CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMH monoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; PM: particul adjustment factor; 20HS/3DHS (g HChest); 22/ days diurnal-hot-soak, ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP NMOG+NOX (g/mi) (g/m	EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: no monoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; PM: particulate nadjustment factor; 2DHS/3DHS (BH0/lest); 22/ days diumal-hto-soak; RL() emonoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; PM: particulate nadjustment factor; 2DHS/3DHS (BH0/lest); 22/ days diumal-hto-soak; RL() emonoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; PM: particulate nadjustment factor; 2DHS/3DHS (BH0/lest); 22/ days diumal-hto-soak; RL() emonoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; PM: particulate nadjustment factor; 2DHS/3DHS (BH0/lest); 22/ days diumal-hto-soak; RL() emonoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; PM: particulate nadjustment factor; 2DHS/3DHS (BH0/lest); 22/ days diumal-hto-soak; RL() emonoxide; NOX: oxides of nitrogen; HCH0: formaldehyde; PM: particulate nadjustment factor; 2DHS/3DHS (BH0/lest); 20/ days diumal-hto-soak; RL() emonoxide; NOX: oxides of nitrogen; HCH0: formaldehyde; PM: particulate nadjustment factor; 2DHS/3DHS (BH0/lest); 2DHS/3DHS/3DHS/3DHS/3DHS/3DHS/3DHS/3DHS/3	EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION I EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20° CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 h monoxide; NOx: oxides of nitrogen; HCH0: formalde-hyde; PM: particulate matter, 20° Loss of line in the content factor; 20° Loss of nitrogen; HCH0: formalde-hyde; PM: particulate matter, 20° Loss of line in the content factor; 20° Loss of nitrogen; HCH0: formalde-hyde; PM: particulate matter, 20° Loss of line in the content factor; 20° Loss of line i	EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F) CH4: methane; MMOG: non-CH4 crganic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: commonwide; NOx oxides of nitrogen; HCH0: formaldelyde; PM: particulate matter, RAF: reaching adjustment factor; 2DHS/3DHS [g HC/hest]: 2/3 days diurnal+hot-soak; RL [g HC/mi]; running is commonwide; NOx oxides of nitrogen; HCH0: formaldelyde; PM: particulate matter, RAF: reaching adjustment factor; 2DHS/3DHS [g HC/hest]: 2/3 days diurnal+hot-soak; RL [g HC/mi]; running is commonwide; PM: procedure; SFTP: supplemental FTP in the commonwide; PM: particulate matter, RAF: reaching in the commonwide; PM: particulate matter				



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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)								
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD					
KHYXR0130CDG	KHYXR0130CDG-AD1	0.00	0.02					

to 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; 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

2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE ·	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH	OBD
HYUNDAI	ELANTRA	PC	1.4	AM7	KHYXR0130CDG	1	F