California Environmental Protection Agency

⊘ Air Resources Board

KIA MOTORS CORPORATION Executive Order: A-314-0253

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

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Pursuant to the authority vested in the 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: 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												
MODE		EST G	GROUP VEHICLE CLASS(ES)				FUEL CATEGORY			FUEL TYPE			
2017	HKMXV02.04FF PC					DEDICATED SINGLE FUEL VEHICLE			GASOLINE				
USEFUL LIFE (miles) VEHICLE EMISSI						ION CAT	CATEGORY INTERIM / INTERMEDIATE IN-USE						
EXH	I/ORVR		EVAP		FTP	S	FTP		FTP	SFTP			
12	20000		150000		LEV2 ULEV		2 SFTP NDARD	*			*		
SPE	CIAL FE	ATUF		IAUST EM	SSION CONTRO		OBD S	TATUS		ENGINE	DISPLACEMENT (L)		
1		T	WC, WR-H	02S, H02	S, DFI		FULL	ALL M	ODELS				
*				*		CL	PARTIAL *			2.0			
*				*		PA	PARTIAL WITH * FINES						
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION													
EVA	AP / ORV	'R FA	VIILY	EVAPORA	TIVE STO CATE	ORY	ORY EVAP EMISSION STD VEHICLE CLASS			SPECIA	L FEATURES		
1	HKMXR01	.284F1	E		LEV 2		PC *			*			
			4	4	EMISSION C	REDIT INF	ORMATION						
	А	LLOW	ANCE FO	R TEST GI	ROUP		MINIOG CREDIT FOR MINIOG CREDIT FOR 6			OPTIONAL EXH. STD FOR WORK			
BASELINE PZEV AT PZEV					TZEV	NON-P	NON-PZEV ZERO-EVAP			TRUCKS			
* * *							N		N	И			
	NMOG AND FLEET AVERAGE INFORMATION												
NMOG RAF	NIMOGINIMECT PETER IN 1 (0-3			0-3750 LV	3750 LVW) LDT (3751 LVW-8500		/W-8500	MDV (10001-14000					
*	*		1.04	*	0	.086	0.101 *			*			

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.

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 NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

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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 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 2

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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ATTACHMENT

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

		NMOG (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	GASOLINE - TIER 2 UNLEADED	0.026	0.040	0.2	1.7	0.02	0.05		8	*	*
FTP@UL	GASOLINE - TIER 2 UNLEADED	0.031	0.055	0.3	2.1	0.02	0.07	*	11	*	0.01
50°F @4K	GASOLINE - TIER 2 UNLEADED	0.034	-0.080	0.2	1.7	0.02	0.05	*	16		

	FUEL TYPE		NOx	(g/mi)	CO (g/mi)		
	FUEL TYPE	0	ERT	STD	CERT	STD	
HWFET @ 50K	GASOLINE - TIER 2 UNLEADED	0	0.01	0.07			
HWFET @ UL	GASOLINE - TIER 2 UNLEADED	0	0.02	0.09		Colora des Servicios de Seguis III.	
20°F @ 50K	GASOLINE-COLD CO LOW OCTAME			Parking Properties	0.9	10.0	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

が見		A STORY	U\$06			SC03	3	COMPOSITE			
	FUEL TYPE		NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMHC+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	
@ 4K	GASOLINE - TIER 2 UNLEADED	CERT	0.02	1.6		0.04	0.3				
		STD	0.14	8.0		0.20	2.7				
		CERT	*	*	. *	*	*	0.052	*	*	
@ UL	GASOLINE - TIER 2 UNLEADED	STD	*	*	*	*	*	0.103	*	*	
	Commercial	BIN						0.130			

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DHS (g/test) @ UL			2D	HS (g/test) (RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
HKMXR01284FE	GASOLINE - CA PHASE 2	0.35	0.50	*	0.22	0.65	*	0.01	0.05

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ORVR / FUI	EL ONLY / CA	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			
HKMXR01284FE	GASOLINE - TIER 2 UNLEADED	0.00	0.20	*	*	*	*	*	*	*			

': 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; PZEV: partial ZEV; AT PZEV: advanced technology PZEV; 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; 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

2017 MODEL YEAR: VEHICLE MODELS INFORMATION												
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE				
KIA	FORTE	PC	2.0	M6,SA6	HKMXR01284FE	1	F	*				