California Environmental Protection Agency

OB Air Resources Board

KIA MOTORS CORPORATION Executive Order: A-314-0244

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															
MOD	I T	EST G	ROUP	VEHICLE CLASS(ES)					FUEL	FUEL CATEGORY				FUEL TYPE		
201	7 нк	CMXT02	2.04MF	4MF LDT2					DEDICATED SINGLE FUEL VEHICLE				GASOLINE			
	USEFUL	LIFE	(miles)		V	EHICLE EMISS	ION (CAT	EGORY	П	IN	ITERIM / IN	ΓE	RMEDIA	TE IN-USE STD	
EX	H/ORVR		EVAP			FTP		5	SFTP			FTP			SFTP	
1	120000 150000 LEV2 ULEV					I		2 SFTP ANDARD			*			*		
SP	ECIAL FE	EATUR		HAUST I	EMIS	SION CONTRO	_		OBD	SI	TAT	JS		ENGINE	DISPLACEMENT (L)	
1	WU-TW	C, TW	C, WR-H	02S, H	02S,	DFI, TC, CA	С		FULL		AL	L MODELS				
*	* *								PARTIAL *			2.0				
*	* *							PA	ARTIAL WITH	- · · · · · · · · · · · · · · · · · · ·				*		
			EV	APORA	TIVE	& REFUELING	(EVA	P/C	DRVR) FAMII	LY	/ INF	ORMATION	l			
EV	AP / ORV	'R FAN	MILY	EVAPO	DRAT	IVE STD CATE	SORY	Y EVAP EMISSION STD VEHICLE CLASS SF			SPECIA	L FEATURES				
	HKMXR01	L284M	3			LEV 2		LDT2 *				*				
						EMISSION CF	REDIT	ΓIN	FORMATION	1						
	А	LLOW	ANCE FC	R TEST	T GRO	OUP			OG CREDIT	_		NMOG CR			OPTIONAL EXH. STD FOR WORK	
BAS	ELINE P	ZEV	AT	PZEV		TZEV	NC	JN-H	PZEV ZERO-	ı	VAP	DC	JK		TRUCKS	
* * *								И			1	1	N			
NMOG AND FLEET AVERAGE INFORMATION																
NMO0 RAF	NMOG/NMHC			-375	50 LVW) LDT (3		OG+NOX FLEET STD DT (3751 LVW-8500 VWR) + MDPV (g/mi)			NMOG+NOX FLEET STD MDV (10001-14000 GVWR) (g/mi)						
*	*		1.04	1	*	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.

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],

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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 January 2016

FOR

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

		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	0.022	0.040	0.3	1.7	0.02	0.05	. *	8	*	*	
FTP@UL	GASOLINE - TIER 2 UNLEADED	0.027	0.055	0.3	2.1	0.03	0.07	*	11.	*	0.01	
50°F @4K	GASOLINE - TIER 2 UNLEADED	0.034	0.034 0.080		0.2 1.7		0.01 0.05		* 16			

16 m	FUEL TVDE	NOx	(g/mi)	CO (g/mi)		
Marie	FUEL TYPE	CERT	STD	CERT	STD	
HWFET @ 50K	GASOLINE - TIER 2 UNLEADED	0.01	0.07	- Céta		
HWFET @ UL	GASOLINE - TIER 2 UNLEADED	0.02	0.09			
20°F @ 50K	GASOLINE-COLD CO LOW OCTANE			0.4	12.5	

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

17 13 1				US06		SC03	3	CON	POSITE	
	FUEL TYPE	* * * * * * * * * * * * * * * * * * * *	NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMHC+NOx (g/mi)	CO (g/mi)	NMHC+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	GASOLINE - TIER 2 UNLEADED	CERT	0.04	4.2		0.05	0.4			3. *1
		STD	0.25	10.5		0.27	3.5			3.1
		CERT	*	*	*	*	*	0.065	*	*
@ UL	GASOLINE - TIER 2 UNLEADED	STD	*	*	*	*	*	0.103	*	*
	A	BIN			13.5			0.130	14 Th	

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY			WHOLE						
	FUEL TYPE	3DHS (g/test) @ UL			2D	HS (g/test) @	RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
HKMXR01284ME	GASOLINE - CA PHASE 2	0.36	0.65	*	0.42	0.85	* .	0.02	0.05

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ORVR / FU	EL ONLY / CA	NISTER	BLEED	EVAPORATIVE	EMISSION	STANDA	RDS AND	CERTIFICA	ATION LEV	ELS			
				FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE	3DHS R (g/test	IG TEST) @ UL	2DHS R (g/test	IG TEST) @ UL	BLEED CANISTER TEST (g/test) @ 4K				
,	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD			
HKMXR01284ME	GASOLINE - TIER 2 UNLEADED	0.02	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 EXH OBD PZEV TYPE														
KIA	SPORTAGE AWD	LDT2	2.0	SA6	HKMXR01284ME	1	F	*						
KIA	SPORTAGE FWD	LDT2	2.0	SA6	HKMXR01284ME	1	F	*						