California Environmental Protection Agency

⊘ Air Resources Board

KIA MOTORS CORPORATION Executive Order: A-314-0247

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 GRO	UP IN	FORMAT	ION					
MODE		TEST GROUP VE			HICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE		
2017	нк	MXV02	2.04WF		PC		DEDICATED SINGLE FUEL VEHICLE			GASOLINE			
	USEFUL	LIFE	(miles)		EHICLE EMISS	HICLE EMISSION CATEGORY			INTERIM / INTER			RMEDIATE IN-USE STD	
EXH	EXH/ORVR . EVAP				FTP	FTP SI		SFTP		FTP		SFTP	
12	120000 150000			1	LEV2 ULEV	LEV 2 SFTE STANDARD			*		*		
SPE	CIAL FE	ATUR		HAUST EMIS	SSION CONTRO	L		OBD ST	ATUS		ENGINE	DISPLACEMENT (L)	
1	WU-TW	C, TW	C, WR-HC	D2S, HO2S,	DFI, TC, CA	C	FU	LL	ALL	MODELS			
*	* PARTIAL *							2.0					
*	* PARTIAL WITH FINES								•				
			EV	APORATIVE	& REFUELING	(EVA	P/ORVR)	FAMILY	INFO	RMATION	-		
EVAP / ORVR FAMILY EVAPORATIVE STD CATEGO							EVAP EMISSION STD VEHICLE CLASS				SPECIAL FEATURES		
HKMKR0135DWE L					LEV 2	JEV 2			PC			*	
					EMISSION C	REDIT	INFORM	ATION					
	A	LLOW	ANCE FO	R TEST GR	OUP	-	MOG CR				DIT FOR	OPTIONAL EXH STD FOR WORK	
BASE	ELINE P	ZEV	АТ	PZEV	TZEV	NC	N-PZEV	ZERO-EV	AP	DO		TRUCKS	
* *					*	* N				N		N	
				NN	OG AND FLEET	AVE	RAGE IN	FORMAT	ION				
NMOG RAF	NIMOG/NIMHC		HCHO/NMI RATIO	PC+LD1 (0 LVW) LDT		OG+NOX FLEET STD OT (3751 LVW-8500 WR) + MDPV (g/mi)		NMOG+NOX FLEET STD MDV (10001-14000 GVWR) (g/mi)			
*	*	. :	1.04	*	0	.086			0.1	01		*	

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

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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 April 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

GASOLINE -

CA PHASE 2

0.36

0.50

HKMXR0135DWE

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ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

		EXH	AUST	EMISSI	ON STAN	DARDS A	ND CER	TIFIC	ATION L	EVELS	(FTP, HW	/FET	r, 50°F, 20°I	F)		
	FUE	FUEL TYPE		nonoxid adjustme DRVR [g	e; NOx: o: ent factor; HC/gallo	kides of nit 2DHS/3DI n dispense	trogen; F HS [g H(ed]: on-b	ICHO: C/test]: oard re	formalde 2/3 days efueling	ehyde; F s diurnal vapor re	PM: particu +hot-soak covery; g:	ulate ; RL gra	non-CH4 HC matter; RA [g HC/mi]: m; mg: millig pplemental	F: reactiv running lo gram; mi:	ity oss;	
				NMOG (g/mi)			CO (g/mi)		NOx (g/mi)			HCHO (mg/mi)			PM /mi)	
				CERT	STD	CER	T ST	D	CERT	STD	CER	Т	STD	CERT	STD	
FTP@5	GASOLINE -		2	0.022 0.		0.4	1.7	7	0.03	0.05	*		8	*	*	
FTP@L	GASOLINE - UL TIER 2 UNLEADED		2	0.029	0.05	0.4	2.	1	0.03	0.07	*		11	*	0.01	
50°F @	4K T	LINE ER 2 LEADE	2	0.035	0.080	0.3	1.	7	0.02	0.05	*		16			
				FUEL TYPE					NOx (g/mi)				CO (g/mi)			
Andrew William Con	The state of the s			10221112					CERT ST		STD	D CERT		STD		
HWFET @ 50K GAS			ASOLINE - TIER 2 UNLEADED					0.	0.01 0.0		7		The state of the s			
HWFET@UL G			GASOLINE - TIER 2 UNLEADED					0.	01	0.09	0.09					
20°F @ 50K		GA	GASOLINE-COLD CO LOW OCTANE									1.0 10.0				
			5	FTP EX	(HAUST E	MISSION	STAND	ARDS	AND C	ERTIFIC	ATION L	EVE	LS			
				US06					SC03			COMPOSITE				
	FUEL T	YPE		Acres 1	IC+NOx g/mi)	CO (g/mi)		PM g/mi)		+NOx mi)	CO (g/mi)	NN	/IOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi	
@ 4K	TIER	GASOLINE - CE TIER 2 UNLEADED S		RT 0.06		5.2	5.2		0.04		0.7					
@ 41.	01.			0	.14	8.0			0.	20	2.7	492		ASSA		
				RT *		*	* *		*		*		0.067	*	*	
@ UL	GASOLIN TIER UNLEAD		STD			*					*		0.103	*	*	
			BIN	Tank to			1 mil	BAGR		2-00			0.130			
		WH	OLE V	EHICLE	EVAPO	RATIVE E	MISSIO	N STA	NDARD	SAND	CERTIFIC	ATI	ON LEVELS			
						WHOLE V	EHICLE	EVAF	ORATI	VE TES	TING					
	ORATIVE	F	UEL T	TYPE 3DHS (g/test) @ UL					2DHS (g/test) @ UL				RL (g/mi) @ UL			
					CERT	STD FEL CE		RT STD		FE	FEL		CERT			

0.31

0.65

*

0.02

0.05

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ORVR / FU	EL ONLY / CA	NISTER	BLEED	EVAPORATIVE	EMISSION	STANDA	RDS AND	CERTIFIC	ATION LEV	ELS		
				FUEL ONLY EVAP & CANISTER BLEED								
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE		IG TEST) @ UL	2DHS R (g/test		BLEED CANISTER TEST (g/test) @ 4K			
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD		
HKMXR0135DWE	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 FAMILY	EXH ECS	OBD	PZEV TYPE
KIA	SORENTO AWD	PC	2.0	SA6	GKMXR0135DWE	1	F	*
KIA	SORENTO FWD	PC	2.0	SA6	GKMXR0135DWE	1.	F	*