California Environmental Protection Agency

@ Air Resources Board

HYUNDAI MOTOR COMPANY Executive Order: A-254-0323

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	INF	ORM	IATION								
MODEL YEAR		TEST G	ROUP		VEHICLE CLASS(ES) FUEL CATEGORY				FUEL TYPE										
2017	F	HYXV02	2.01EP				PC			D		TED SINGLE FUEL VEHICLE				GASOLINE			
US	SEFL	JL LIFE	(miles)		\	/EHIC	CLE EMISS	ION	CA	TEG	ORY		INTERIM / IN	TI	ERMEDIA	TEI	N-USE STD		
EXH/C	ORVE	2	EVAP			F	ГР			SFT	Р	Γ	FTP				SFTP		
1500	000		15000)	LE	v3 s	ULEV30	LE	v 3	3 CON	MPOSITE		PM		NI	IOG+1	NOX AND PM		
SPECI	IAL F	EATUR		(HAUS		1012	N CONTRO	L			OBD S	TΑ	TUS		ENGIN		PLACEMENT L)		
1		WU-TW	C, TWC,	WR-H	102S,	HO2S	, SFI			F	FULL		ALL MODELS						
*				*						PA	ARTIAL		*		2.0				
*				*					F		ARTIAL WITH * FINES								
	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION																		
EVAP	/ OR	VR FAI	MILY	EVA	PORAT	TIVE S	STD CATE	SOR	Υ		EVAP EMIS VEHICLE				SPECI	AL FI	EATURES		
нн	YXR	01301E	3		LEV	7 3 (OPTION2				P	C				HC	Г		
						ΕN	MISSION CE	RED	IT I	NFO	RMATION								
		ALLOW	ANCE F	OR TE	ST GR	OUP										TIONAL EXH. D FOR WORK			
BASEL	INE	PZEV	A.	r PZE\	/		TZEV	IN.	ION	N-P2C	ZERU-E	V /		U	N.		TRUCKS		
ALL	MOD	ELS		*			*				N			N			N		
					NN	10G /	AND FLEET	AV	ER	AGE	INFORMA	TI	NC						
NMOG R	RAF	CH4 R/	AF FT		OG/NMI TIO	нс	HCHO/NM	НСНО/ММНС І		IHC RATIO		TIO	NMOG+NOX FL PC+LDT (0-378 (g/mi))-3750 LVW)	-3750 LVW) L		G+NOX FLEET STD (3751 LVW-8500 /R) + MDPV (g/mi)	
*		*		1.	10			*				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.

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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 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], 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:

Vehicles certified under this Executive Order shall not be introduced into commerce before January 2, 2016.

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 December 2015.

110/11/-

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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ATTACHMENT

	EYI	AA TSIIAL	ID EVAD	OPATIV	EEMICO	HON STA	NDARE	IA A NI	CERT	IFICATION		0	
	LAI								-	FET, 50°F, 2		5	
	F	UEL TYPE	CH4: meth monoxide; adjustmen ORVR [g l	nane; NMC NOx: bxid t factor; 2I HC/gallon	OG: non-Cludes of nitro OHS/3DHS	H4 organic gen; HCHC [g HC/test]: on-board	gas; HC: h): formalde]: 2/3 days refueling	nydroca ehyde; f diurna vapor re	rbon; NMF PM: particu l+hot-soak	IC: non-CH4 ulate matter; F ; RL [g HC/m gram; mg: m c: supplement	HC; CO: c RAF: react i]: running illigram: m	ivity loss:	
			NMOG+NOx (g/mi)		CO (g/mi)			Ox mi)		HCHO (mg/mi)	1	PM /mi)	
			CERT	STD	CERT	STD	CERT	STD	CER	T STD	CERT	STD	
FTP@50	K	*	*	*	*	*	*	*	*	*	*	*	
FTP@U		ASOLINE- LEV3 E10	0.018	0.030	0.3	1.0	*	*	*	4	0.001	0.003	
50°F @4	K I	ASOLINE- LEV3 E10	0.015	0.060	0.3	1.0	*	*	*	. 8			
				FUEL TYP	-		NN	IOG+N	Ox (g/mi)		CO (g/mi)		
				FUEL I TE	E		CE	RT	STD	CER	ERT STD		
HWFET	@ 50	K		*			+		*				
HWFE	r @ U	L	GASO	LINE-LEV	73 E10		0.0	800	0.030				
20°F (50K	(GASOLINE-	COLD CO	LOW OCT	ANE				1.4	1	10.0	
			SFTP EXH	AUST EN	IISSION S	TANDARD	S AND CE	RTIFIC	ATION LI	EVELS			
-11/11/1					US06			SC03	3	COMPOSITE			
	FUEL	TYPE	.,,,,,	G+NOx mi)	CO (g/mi)	PM (mg/mi)	NMOG (g/i		CO (g/mi)	NMOG+NO (g/mi)	x CO	PM (mg/mi	

				US06		SC03	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)	
@ 4V	+	CERT	*	*		*	*	The state of the s			
@ 4K	<u> </u>	STD	*	*		*	*	NMOG+NOx			
		CERT	*	*	2	*	*	0.016	1.5	*	
@ UL	GASOLINE- LEV3 E10	STD	*	*	10	* .	*	0.103	4.2	*	
	22.5 210	BIN						0.030			

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

			WHOLE						
EVAPORATIVE FAMILY	FUEL TYPE	3DH	S (g/test) (@ UL	2DI	HS (g/test) @	RL (g/mi) @ UL		
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
HHYXR01301EG	GASOLINE- LEV3 E10	0.256	0.300	*	0.194	0.300	*	0.03	0.05

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

				FUEL ONLY EVAP & CANISTER BLEED							
EVAPORATIVE FAMILY	ORVR (g/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	
HHYXR01301EG	E10-OTH	0.01	0.20	GASOLINE- LEV3 E10	*	*	*	*	0.006	0.020	

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*: 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
HYUNDAI	ELANTRA	PC	2.0	SA6	HHYXR01301EG	1	F	PZEV
HYUNDAI	ELANTRA SE	PC	2.0	SA6	HHYXR01301EG	1	F	PZEV