California Environmental Protection Agency

OB Air Resources Board

HYUNDAI MOTOR COMPANY Executive Order: A-254-0339

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 COOLD VEHICLE CLASSIES					S)	FUEL CATEGORY				FUEL TYPE		
2017	2017 HHYXV03.31LF				PC	PC ·			ATED SINGLE FUEL VEHICLE			ASOLINE	
l	JSEFUL	LIFE	(miles)	V	EHICLE EMISS	ION C	ATEGOR	Y	INTERIM	/ INTE	RMEDIA	TE IN-USE STD	
EXH	EXH/ORVR EVAP FTP					TP SFTP			FTP			SFTP	
12	150000 LEV2 ULEV LEV 2 SFTP STANDARD				*			*					
SPE	CIAL FE	ATUR	ES & EXH		SION CONTRO	L		OBD ST	ATUS		ENGINE	DISPLACEMENT (L)	
1	1 2WU-TWC, TWC, 2HO2S(2), DFI						FUL	L	ALL MODE	L MODELS			
*	*						PART	IAL	*		3.3		
*	*						PARTIAI FINI		*	*			
			EV	APORATIVE	& REFUELING	(EVA	P/ORVR)	FAMILY	INFORMAT	ION			
EVA	P / ORV	'R FAN	MILY	EVAPORAT	IVE STD CATE	GORY		AP EMIS /EHICLE	SION STD CLASS		SPECIA	L FEATURES	
Н	HYXR01	391LE	G.		LEV 2		PC				*		
					EMISSION C	REDIT	INFORM	ATION					
	A	LLOW	ANCE FO	R TEST GRO	OUP		IMOG CR				DIT FOR	OPTIONAL EXH STD FOR WORK	
BASE	ELINE, P	ZEV	AT	PZEV	TZEV	NO	NON-PZEV ZERO-EVAP			DOF	TRUCKS		
* * *						N I			N	N			
				NM	OG AND FLEET	TAVE	RAGE IN	ORMAT	ION				
NMOG RAF	CH4 NMOG/NMHC HCHO/NMHC PC		PC+LDT (MOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)				3500					
*	*		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.

BE IT FURTHER RESOLVED:

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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 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 July 2016.

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 CO NOx **HCHO** PM (g/mi) (g/mi) (g/mi) (mg/mi) (g/mi)

		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	GASOLINE - TIER 2 UNLEADED	0.014	0.040	0.2	1.7	0.02	0.05	*	8	*	*
FTP@UL	GASOLINE - TIER 2 UNLEADED	0.020	0.055	0.3	2.1	0.02	0.07	*	11	*	0.01
50°F @4K	GASOLINE - TIER 2 UNLEADED	0.043	0.080	0.3	1.7	0.00	0.05	*	16		
1844 / Lyn.	0.000 (Traces 9)							mi)		CO (a/mi)

	FUEL TYPE	NOx	(g/mi)	CO	g/mi)
The section of the se	FUEL TYPE	CERT	STD	CERT	STD
HWFET @ 50K	GASOLINE - TIER 2 UNLEADED	0.02	0.07	4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
HWFET @ UL	GASOLINE - TIER 2 UNLEADED	0.02	0.09	The second of the second	toyer musely house within
20°F @ 50K	GASOLINE-COLD CO LOW OCTANE			0.8	10.0

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

		Confidence 2		US06		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	0.7		0.10	0.1				
0		STD	0.14	8.0		0.20	2.7		TARREST MALE	1	
		CERT	*	*	*	*	*	0.064	*	*	
@ UL	GASOLINE - TIER 2 UNLEADED	STD	*	*	*	*	*	0.103	*	*	
		BIN		\$2.15.23 Har			STAN STAN	0.130	REMARKS IN		

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
HHYXR01391LE	GASOLINE - CA PHASE 2	0.29	0.50	*	0.22	0.65	*	0.02	0.05

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				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 CANISTE TEST (g/test) @				
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD			
HHYXR01391LE	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
HYUNDAI	AZERA	PC	3.3	SA6	HHYXR01391LE	1	F.	*
HYUNDAI	AZERA LIMITED	PC	3.3	SA6	HHYXR01391LE	1	F	*