California Environmental Protection Agency	HYUNDAI MOTOR	Executive Order: A-254-0337 New Passenger Cars, Light-Duty Trucks and
Ø≣ Air Resources Board	COMPANY	Medium-Duty Vehicles Page 1 of 4

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 INFO	RMATION						
MODEL YEAR	- 1 - 16	EST G	ROUP		VEH	ICLE CLASS(E	S)	FUEL CATEGORY				FUEL TYPE		
2017	нн	YXV02	2.4AJ5			PC		DEDICATE:	D SIN EHICL			GASOLINE		
U	JSEFUL	LIFE	(miles)		VI	EHICLE EMISS	ION CAT	EGÓRY	IN	TERIM / IN	TERME	DIATE IN-USE	STD	
EXH/	ORVR		EVAP			FTP	S	FTP		FTP		SFTP		
150	0000		150000		LEV	/3 ULEV70	LEV 3	COMPOSITE		NMOG+NO2	c 🛛	NMOG+NO	x	
SPEC	CIAL FE	ATUR		HAUST TEMS	EMISS	SION CONTRO	L	OBD S	STATU	IS	ENG	INE DISPLACE (L)	EMENT	
1	W	U-TWO	C, TWC,	WR-HC	2S, H	O2S, DFI		FULL	ALI	_ MODELS	1			
*				*				PARTIAL		*		2.4		
*	* * PARTIAL WITH * FINES													
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION														
EVAF	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGORY EVAP EMISSION STD VEHICLE CLASS SPECIAL FEATURES									ES				
HI	HYXR01	40AH0	<u> </u>		LEV	3 OPTION1	PPTION1 PC				HCT			
					$\overline{}$	EMISSION CF	REDIT IN	ORMATION						
ALLOWANCE FOR TEST G BASELINE PZEV AT PZEV				ST GRC						EDIT F	OR STD FOR TRUC	WORK		
	*			*		*		N		1	N	N		
					NMC	G AND FLEET	AVERAG	GE INFORMA	TION					
NMOG RAF	CH4 RAF	NMO	FTP G/NMHC ATIO	1	O/NMH ATIO	PC+LDT (NMOG+NOX FLEET PC+LDT (0-3750 LV (g/mi)		(3751	(FLEET S1 LVW-8500 IDPV (g/mi	N	D NMOG+NOX FLEET ST MDV (10001-14000 GVWR) (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.

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],

		Executive Order: A-254-0337
California Environmental Protection Agency	HYUNDAI MOTOR	New Passenger Cars, Light-Duty Trucks and
Air Dessures Poord	COMPANY	Medium-Duty Vehicles
Ø≣ Air Resources Board		Page 2 of 4

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 May 2016.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

California Environmental Protection Agency

Om Air Resources Board

GASOLINE

TIER 2

UNLEADED

0.02

0.20

HHYXR0140AHG

HYUNDAI MOTOR COMPANY Executive Order: A-254-0337 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

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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

A Standard Standard												
			S+NOx mi)	C (g/i	-		Ox mi)	HC (mg	HO /mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CER	T STD	
FTP@50K	*	*	*	*	*	*	*	*	*	*	*	
FTP@UL	GASOLINE- LEV3 E10	0.025	0.070	0.6	1.7	*	*	*	4	*	0.01	
50°F @4K	GASOLINE- LEV3 E10	0.033	0.140	0.5	1.7	*	*	*	16			
						NMOG+NOx (g		(g/mi)	(g/mi)		CO (g/mi)	
e in a design of	and the second se	FUEL TYPE					RT	STD	CER	T	STD	
HWFET @	50K	* *				-	-	*			an a	
									in the States		State State and	

-				National and service address of	a second and what
HWFET @ UL	GASOLINE-LEV3 E10	0.016	0.070		
20°F @ 50K	GASOLINE-COLD CO LOW OCTANE			1.6	10.0

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

, gal -						JS06				SC03		CC	OMPOSITE		
	FUEL TY	PE		NMOG+N (g/mi)		CO (g/mi)	Pl (mg/			DG+NOx g/mi)	CO (g/mi)	NMOG+NO (g/mi)	x CO (g/mi)	PM (mg/mi	
@ 4K	CERT		*		×				*	*					
6			STD	*		*				*	*				
		C	ERT	*		*	*			*	*	0.027	1.2	*	
@ UL			STD	*		*	*			*	*	0.103	4.2	*	
			BIN			- 21	1997 - B.	10° ° 10				0.070			
		WHO	LE VEH	ICLE EV	APORA	TIVE EN	ISSION	STAN	DAR	DS AND C	ERTIFICA	TION LEVE	LS		
					W	HOLE VE	HICLE	EVAPO	ORAT	IVE TEST	ING	1			
	ORATIVE	FU	EL TYP	E 3	3DHS (g/test) @ U				2DH	IS (g/test)	@ UL	F	RL (g/mi) @ UL		
				CEF	RT S	STD	FEL	CER	T	STD	FEL	CEI	RT	STD	
HHYXE	R0140AHG		SOLINE V3 E1	102	58 0	0.350		0.28	37	0.350	* 0.		02 0.05		
(DRVR / FUE	LON	ILY / C	ANISTER	BLEED	EVAPO	RATIVE	EMIS	SION	STANDA	RDS AND	CERTIFICA	TION LEV	ELS	
								FU	EL O	NLY EVA	P & CAN	STER BLEE	D		
	ORATIVE			FUEL	TYPE			G TEST		RIG TEST		ANISTER est) @ 4K			
	_	FUE	L TYPE	CERT	STD	1		CEF	RT	STD	CERT	STD	CERT	STD	

0.04

0.0

0.05

0.0

*

GASOLINE-

LEV3 E10

California Environmental Protection Agency	HYUNDAI MOTOR	Executive Order: A-254-0337 New Passenger Cars, Light-Duty Trucks and
Ø∋ Air Resources Board	COMPANY	Medium-Duty Vehicles Page 4 of 4
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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 guality 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	SONATA	PC	2.4	SA6	HHYXR0140AHG	1	F	*
HYUNDAI	SONATA SPORT TECH, SONATA LIMITED TECH	PC	2.4	SA6	HHYXR0140AHG	1	F	*
HYUNDAI	SONATA SPORT, SONATA LIMITED	PC	2.4	SA6	HHYXR0140AHG	1	F	*