

HYUNDAI MOTOR COMPANY

EXECUTIVE ORDER A-254-0149 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 & 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED:

That 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.

		Passenger Car PECIAL FEATURES	Emissio	/ ii" Uitra Low on Vehicle (LEV ii ULEV) EVAPORATIVE	EXH / ORVR 120K	ORVR EVAP 120K 150K		EVAP DISPLACE	Gasoline		
No.			8HYXR0155PDN								
1	WU-TWC,TWC, HO2S(2), SFI, OBD(F)			GHTARUIST DR							
*							2.4				
		4	.*								
- 1			48.54	*							

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:

That the exhaust and the 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 Fleet Average" (PC or LDT) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

BE IT FURTHER RESOLVED:

That 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 Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model 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.

hnette Hebert, Chief

Mobile Source Operations Division



ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

(For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

NMOG FLEET NMOG @ AVERAGE [g/mi] CH4 R.		AF=+ NMOG 0		HCHO=for	maldehyde; ! ?!lo/mil=run	PM=particu	late matter; DRVR (g/ga	RAF=read	ivity adjust sed1=on-bi	ment facto pard refuel	CO=carbon r or; 2/3 D [g/tes ing vapor rec	sij≖2/3 day d overy; g≕gra	IDD HOLL		
CERT	STD	NMOG NMHC CERT CERT		NMHC	mi= <u>mile;</u> K	=1000 miles	: F=degree	F=degrees Fahrenheit; NOx [g/mi]		it; SFTP=supplemental federal f HCHO [mg/mi]		1est procedure PM [g/mi]		Hwy NOx [g/mi]	
0.037	0.040	[g/mi]	[g/mi]	- I I I I I I I I I I I I I I I I I I I	CERT	[g/mi] STD	CERT				TD	CERT	STD	CERT	STD
	@ 50K	0.019	*	0.040	0.3	1.7	0.00	0.05	3.	0	В.	*	*	0.01	0.07
	@ UL	0.022	*	0.055	0.4	2.1	0.01	0.07	4.	0	11.	*	0.01	0.02	0.09
	50°F & 4K	•	•	*	•	•	*	*	*	'	•	•	+	•	*
CO [g/mi] @ 20°F & 50K			Ver de la	NMHC+NO								NMHC+NOx [g/mi] [SC03]		CO [g/ml] _[SC03]	
				CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
CERT	1.9	SFTP @ 4	000 miles	•	*	*	•	0.03	0.14	2.3	8.0	0.02	0.20	0.4	2.7
STD	10.0		@ * miles	•	*	•	٠	*	*	•	•	•	*	•	
Evaporative Family (gran		iurnal + Ho ns/test) @ l	ot Soak 2-Days Diurnal • UL (grams/test)					Running i ams/mile				Refueling Vapor grams/gallon) @ UL			
		CERT	S	STD CERT			STD		CERT STD			CERT		STD	
		0.34		.50	0.40		0.65	0.0	3	0.05		0.02		0.20	
	GHT VIVOTOOL DIA				•				•		+		*	ı	*

[&]quot; = not applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; ECS= Emission Control System; STD= Standard; CERT= Certification; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; TLEV=transitional LEV; ULEV=ultra LEV; SULEV=super ULEV; TWC=3-way catalyst; ADSTWC=adsorbing TWC; WU=warm-up catalyst; OC=oxidizing catalyst; O2S=oxygen sensor; HO2S=heated O2S; AFS/HAFS=air- fuel ratio sensor / heated AFS; EGR=exhaust gas rectroulation; AIR=secondary air injection; PAIR=pulsed AIR; MFI= multiport fuel injection; SFI=sequential MFI; TBI=throttle body injection; DGI=direct gasoline fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)=full/partial on-board diagnostic; DOR=direct ozone reducing; prefix 2=parallel; (2) suffix=series; CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol Fuel;

2008 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	INTERMEDIATE IN-USE COMPLIANCE (*=N/A or full in-use; A/E=exh. / evap. intermediate in-use)		PHASE-IN STD.	OBD II
		•			EXH	EVAP		
HYUNDAI	SONATA	8HYXR0155PDN	1	2.4	•	•	SFTP	Full