State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-254-48
Relating to Certification of New Motor Vehicles

HYUNDAI MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1997 model-year Hyundai Motor Company exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: VHY1.5VJG2EK Displacement: 1.5 Liters (91.2 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Heated Oxygen Sensors (two)
Three Way Catalytic Converters (two)
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The TLEV certification exhaust emission standards for this engine family in grams per mile are:

Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde	Carbon Monoxide (20°F)
50,000	0.125	3.4	0.4	0.015	10.0
100,000	0.156	4.2	0.6	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.98 RAF for 1997 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane Organic Gas	Carbon Monoxide	Nitrogen Oxides	Formaldehyde	Carbon Monoxide (20°F)
50,000	0.066	0.7	0.1	0.001	3.8
100,000	0.072	0.8	0.1	0.001	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 19th day of August 1996.

John Kowalski for

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1997 AIR RESOURCES SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer : HYUNDAI MOTOR CO. Exh Eng Fam : VHY1.5VJG2EK Evap Fam : VHY1033BYM01
All Eng Codes in Eng Fam : CA X 49S __ 50S____ AB965 ___
Exh Std : CA Tier-1__ TLEV X LEV__ ULEV__ ZEV__ ; US EPA Tier-1 __
Evap Std : 50K X Useful life with R/L__ In-Use Exh Std : Full In Use X Alt In Use___
Veh Class(es) : PC X LDT1__ LDT2__ MDV1__ MDV2__ MDV3__ MDV4__ MDV5__
Single Cert Std for Muli-Class Eng Fam : N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)
Fuel Type(s) : Dedicated__ Flex-Fuel___ Dual-Fuel___ Bi-Fuel___ Gasoline X Diesel____
CNG___ LNG___ LPG___ M85___ Other (specify) _____
Emiss Test Fuel(s) : Indo__ PH2 X CNG__ LPG__ M85__ Other (specify) _____
Diesel : 13 CCR 2282__ 40 CFR 86.113-90_ 40 CFR 86.113-90__
Service Accum : Std AMA X Mod AMA__ Mfr ADV__ OTHER (SPECIFY)_____
NMOG Test procedure : N/A___ Std X Equiv___ R/L Test Proc : SHED___ Pt Source___
Hybrid : Type A____ B____ C____, APU Cycle (e.g., Otto, Diesel, Turbine) _____
Engine Configuration : I-4 Displacement : 1.5 / ____ Liters 91.2 / ___ Cubic Inches
Valves Per Cylinder : 3 Rated HP : 87 @ 5,500 RPM
Engine : Front X Mid__ Rear__ Drive : FWD X RWD___ 4WD-FT___ 4WD-PT___
Exhaust ECS (e.g., MFI EGR., TC, CAC, : HO2S(2) + TWC(2)+ SFI + OBD II
(use abbreviations per SAE J1930 SEP91)

Eng. Code (also list CA/ 49ST/50ST)	Veh. Models (If coded see Attachment)	Trans. (M5-Man, L4-Auto)	ETW OR Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalystic Converter Part No.
ACM5-L /CM5-L(CA)	ACCENT	M5	2500	6.4	39110-22045 (0261204003) & 39110-22345 (9030930018)	N/A	28950-26000 (H1CC18), 28950-26005 (H0CC18), 28530-22070, 28530-22075
ACL4-L /CL4-L(CA)	↑	L4	↑	6.5	↑	↑	↑

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