

State of California
AIR RESOURCES BOARD

Resolution 77-48

September 29, 1977

WHEREAS, Section 39601 of the Health and Safety Code authorizes the Air Resources Board to adopt standards, rules, and regulations necessary for the proper execution of the powers and duties granted to and imposed upon the Board by law;

WHEREAS, Sections 43101 and 43104 of the Health and Safety Code authorize the Board to adopt vehicle emission standards and test procedures in order to control or eliminate air pollution caused by motor vehicles;

WHEREAS, on August 7, 1977 the Clean Air Act Amendments of 1977 were signed into law, which amended Federal motor vehicle emission standards, test procedures, enforcement programs, and also amended the requirements for waivers of Federal preemption pursuant to Section 209 of the Clean Air Act, and which further required California to make certain findings regarding its regulations in order to be eligible for such a waiver;

WHEREAS, there are now pending before the Environmental Protection Agency several requests by the Board for waivers of Federal preemption for California emission standards, test procedures, and enforcement programs;

WHEREAS, the Board has found the need to make certain amendments to its regulations in order to make the California standards and test procedures more consistent with the amended Federal regulations;

WHEREAS, the Board also needs to make the findings required by the Clean Air Act Amendments of 1977 in order that its pending waiver requests may be considered by EPA; and

WHEREAS, a public hearing and other administrative proceedings have been held in accordance with the provisions of the Administrative Procedure Act (Government Code, Title 2, Division 3, Part 1, Chapter 4.5);

NOW, THEREFORE, BE IT RESOLVED, that the Board hereby amends its regulations in Article 2, Subchapter 1, Chapter 3, of Title 13, California Administrative Code, as follows:

1. Section 1958(b) is amended to read:
 - (b) Exhaust emissions from new street-use motorcycles, subject to registration and sold and registered in this state, shall not exceed:

**Exhaust Emission Standards
(grams per kilometer)**

<u>Model-Year</u>	<u>Engine Displacement (in cubic centimeters)</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>
1978 to 1979	50 to less than 170	5.0	17
	170 to less than 750	5.0 + 0.0155(D-170)*	17
	750 or greater	14	17
1980 to 1981	All (50 cc or larger)	5.0	12
1982 and Subsequent	All (50 cc or larger)	1.0	12

*D = engine displacement of motorcycles in cubic centimeters.

2. Subsections (a) and (b) of Section 1960 are amended to read:

1960. Exhaust Emission Standards and Test Procedures - 1980 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles. (a) The exhaust emissions from new 1980 and subsequent model-year passenger cars, light-duty trucks and medium-duty vehicles, subject to registration and sold and registered in this state, shall not exceed:

**Exhaust Emission Standards
(grams per mile)**

<u>Model Year</u>	<u>Vehicles</u>	<u>Equivalent Inertia Weight (lbs.)</u>	<u>Non-Methane Hydrocarbons*</u>	<u>Carbon Monoxide</u>	<u>Oxides of Nitrogen (NO₂)**</u>
1980	Passenger Cars (PC)	All	0.39 (0.41)	9.0	1.0 (1.5)
	Light-Duty Trucks (LDT)	0-3999	0.39 (0.41)	9.0	1.5
	Light-Duty Trucks (LDT)	4000-5999	0.50 (0.50)	9.0	2.0
	Medium-Duty Vehicles (MDV)	All	0.9 (0.9)	17	2.3
1981	PC	All	(0.41)	3.4	1.0 (1.5)
	PC***	All	0.39 (0.41)	7.0	0.7
	LDT & MDV	0-3999	0.39 (0.41)	9.0	1.0 (1.5)
	LDT & MDV	4000-5999	0.50 (0.50)	9.0	1.5 (2.0)
	MDV	6000 & larger	0.60 (0.60)	9.0	2.0 (2.3)

Exhaust Emission Standards
(grams per mile)

Model Year	Vehicles	Equivalent Inertia Weight (lbs.)	Non-Methane Hydrocarbons*	Carbon Monoxide	Oxides of Nitrogen (NO ₂)**
1982	PC	All	0.39 (0.41)	7.0	0.4 (1.0)
	PC***	All	0.39 (0.41)	7.0	0.7
	LDT & MDV	0-3999	0.39 (0.41)	9.0	1.0 (1.5)
	LDT & MDV	4000-5999	0.50 (0.50)	9.0	1.5 (2.0)
	MDV	6000 & larger	0.60 (0.60)	9.0	2.0 (2.3)
1983 & Subsequent	PC	All	0.39 (0.41)	7.0	0.4 (1.0)
	LDT & MDV	0-3999	0.39 (0.41)	9.0	0.4 (1.0)
	LDT & MDV	4000-5999	0.50 (0.50)	9.0	1.0 (1.5)
	MDV	6000 & larger	0.60 (0.60)	9.0	1.5 (2.0)

*Hydrocarbon standards in parentheses apply to total hydrocarbons, or, for 1980 models only, to emissions corrected by a methane content correction factor.

**Oxides of nitrogen standards in parentheses are applicable to engine families which are certified under the "Optional 100,000 Mile Certification Procedure."

***The second set of passenger car standards is optional. A manufacturer must select either the primary or optional sets of standards for his full product line for the entire two-year period.

(b) The test procedures for determining compliance with these standards are set forth in "California Exhaust Emission Standards and Test Procedures for 1980 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles," adopted by the Air Resources Board on November 23, 1976, as last amended September 29, 1977.

BE IT FURTHER RESOLVED, that the Executive Officer shall amend the "California Exhaust Emissions Standards and Test Procedures for 1980 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles" to conform to the above amendments to Section 1960, and shall also amend Sections (3)(a) and (3)(c) of those procedures to read:

3.a. In order to demonstrate compliance with a non-methane hydrocarbon emissions standard, hydrocarbon emission shall be measured with an analytical system which responds only to the non-methane fraction. All hydrocarbon test data shall be reported as non-methane hydrocarbons.

In the alternative, for 1980 models only, a manufacturer may correct the total measured hydrocarbons with a methane content correction factor. (No further change to Section 3.a.)

- 3.c. The requirements in subparagraph 86.078-28(a)(4)(1)(B) (durability vehicles must meet emission standards) refer, for each pollutant, to the highest of either the Federal or California emission standards.

BE IT FURTHER RESOLVED, that the Board hereby finds that the following emission standards, test procedures, and/or enforcement regulations are, individually and collectively, at least as protective of public health and welfare as applicable Federal standards, test procedures and/or enforcement regulations:

1. Exhaust emission standards and test procedures for 1978 and subsequent model year motorcycles, individually for each model year, as specified in Section 1958, Title 13, California Administrative Code.
2. Compliance testing and inspection regulations for 1978 and subsequent model year motorcycles, as specified in Sections 2100 and 2101, Title 13, California Administrative Code.
3. Exhaust emission standards and test procedures for 1979 and subsequent model year passenger cars, light-duty trucks, and medium-duty vehicles, individually for each vehicle type and model year, as specified in Sections 1959.5 and 1960, Title 13, California Administrative Code.
4. The "California Exhaust Emission Standards and Test Procedures for 1979 Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles," as last amended June 8, 1977, individually for each vehicle type.
5. The "California Exhaust Emission Standards and Test Procedures for 1980 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles," as last amended September 29, 1977, individually for each vehicle type and model year, and specifically including those sections regarding allowable maintenance, idle mixture adjustability, high altitude test requirements, and the 100,000 mile certification option.
6. Compliance testing and inspection regulations for 1978 medium-duty vehicles and for 1978 Diesel-powered light-duty trucks individually for each vehicle type, as specified in Sections 2100 and 2101, Title 13, California Administrative Code.
7. Inspection regulations applicable to 1978 and subsequent model year heavy-duty vehicles, as specified in Sections 2100 and 2101, Title 13, California Administrative Code.
8. The "California Assembly-Line Test Procedures for 1978 Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles," adopted January 25, 1977, individually for each vehicle type, and the associated assembly-line test regulations in Subchapter 2, Title 13, California Administrative Code.

9. Evaporative emissions standards for 1980 and subsequent model year gasoline-powered motor vehicles, except motorcycles, individually for each model year and vehicle type, as specified in Section 1976, Title 13, California Administrative Code.
10. The "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles, Except Motorcycles," as last amended June 8, 1977, individually for each vehicle type and for each model year.

BE IT FURTHER RESOLVED, that the Executive Officer shall communicate the actions taken by the Board today, as well as the above findings, to the Environmental Protection Agency as soon as possible so that they may be included in EPA's current consideration of California waiver requests.