

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-358
Relating to Certification of New Motor Vehicles

NISSAN MOTOR COMPANY, LTD.

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 the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below:

Model Year: 2001

Vehicle Type: Passenger Car

Exhaust Emission Standard Category: "LEV II" Super-Ultra-Low-Emission Vehicle
(LEV II SULEV)

Fuel Type: Gasoline

Test Group: 1NSXV01.852A

Engine Displacement: 1.8 Liters

Evaporative Family: 1NSXR0085RCB

Special Features and Exhaust Emission Control Systems:

Three Way Catalytic Converter
Adsorber Three Way Catalytic Converters (two)
Air Fuel Ratio Sensor
Heated Oxygen Sensors (two)
Sequential Multiport Fuel Injection
Exhaust Gas Recirculation

Models Covered: Nissan Sentra CA

The exhaust certification emission levels and standards, in grams per mile, of non-methane organic gases (NMOG) or non-methane hydrocarbons (NMHC), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) for the listed vehicle models are as follows. The exhaust certification emission levels and standards under the Supplemental Federal Test Procedure (SFTP) US06 and SC03 tests are also listed below. The NMOG exhaust certification emission levels include application of the reactivity adjustment factor (RAF) as specified.

The evaporative hydrocarbon (HC) certification emission levels and standards for two-day diurnal plus hot soak (2D) and three-day diurnal plus hot soak (3D) in grams per test, running loss (RL) in grams per mile, and onboard refueling vapor recovery (ORVR) in grams per gallon of fuel dispensed, for the listed vehicle models are as follows.

<u>Type of Emissions</u>	<u>Miles</u>	<u>Certification Level</u>	<u>Certification Standards</u>
<u>EXHAUST @ NMOG RAF = 1.00</u>			
..... NMOG fleet average		0.071 (projected)	0.070
NMOG	50,000	n/a	n/a
NMOG	150,000	0.005	0.010
CO	50,000	n/a	n/a
CO	150,000	0.1	1.0
NOx	50,000	n/a	n/a
NOx	150,000	0.01	0.02
NOx (highway)	50,000	n/a	n/a
NOx (highway)	150,000	0.01	0.03
HCHO	50,000	n/a	n/a
HCHO	150,000	0.0002	0.004
..... CO (20°F)	50,000	1.4	10.0
..... NMOG (50°F)	4,000	0.013	0.020
CO (50°F)	4,000	0.4	1.0
NOx (50°F)	4,000	0.003	0.02
HCHO (50°F)	4,000	0.0002	0.008
..... NMHC+NOx (US06)	4,000	0.004	0.14
CO (US06)	4,000	1.0	8.0
NMHC+NOx (SC03)	4,000	0.004	0.20
CO (SC03)	4,000	0.03	2.7
<u>EVAPORATIVE</u>			
HC-2D...background	150,000	0.21	0.35
...fuel	150,000	0.0	0.0
HC-3D...background	150,000	0.20	0.35
...fuel	150,000	0.0	0.0
HC-RL	150,000	0.001	0.05
HC-ORVR	150,000	0.01	0.20

BE IT FURTHER RESOLVED: That, as of the date of this order, the Air Resources Board has not proposed or adopted a RAF for passenger car SULEVs. At the proposal of the manufacturer for the certification of the aforementioned test group, and based on available data and analysis showing there is a strong likelihood that the RAF for such vehicles will be less than 1.000, the applicable RAF for the listed test group shall be treated for all purposes relating to this certification as listed above.

BE IT FURTHER RESOLVED: That any debit in the manufacturer's NMOG fleet average compliance plan shall be equalized as required by the "California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models have been certified to meet the requirements in Title 13, California Code of Regulations, Section 1962 (c)(2) and are hereby granted a partial ZEV allowance of 0.2.

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 vehicle models, the manufacturer has attested to compliance with the following California emission regulations and requirements. Vehicles certified under this Executive Order shall conform to all applicable California emission regulations and requirements.

- Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks (Title 13, California Code of Regulations, Section 2235)
- Motor Vehicle Emission Control and Smog Index Label Specifications (Title 13, California Code of Regulations, Section 1965)
- Emission Control System Warranty (Title 13, California Code of Regulations, Sections 2035 et seq.)
- High-Altitude Requirements and California Inspection and Maintenance Emission Standards (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles)

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

Executed at El Monte, California this 7TH day of August 2000.

A handwritten signature in black ink, appearing to read "R. B. Summerfield", followed by the letters "FOR" in a similar cursive style.

R. B. Summerfield, Chief
Mobile Source Operations Division