Fuel

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-310
Relating to Certification of New Motor Vehicles

NISSAN MOTOR CO., 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 1998 model-year Nissan Motor Co., Ltd. exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type: Gasoline

Engine Family: WNSXV01.631A Displacement: 1.6 Liters (97.5 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

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

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

The LEV 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	0.075	3.4	0.2	0.015	10.0
100,000	0.090	4.2	0.3	0.018	n/a

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.94

The certification exhaust emission values set forth for non-methane organic gas (NMOG) reflect application of a 0.94 RAF for 1998 model-year LEVs. The LEV 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	0.044	0.4	0.1	0.001	3.5
100,000	0.044	0.4	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 running loss and useful life standards applicable to 1995 and subsequent 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 the vehicle manufacturer is certifying the listed vehicle models to the "California Refueling Emission Standards and Test Procedures for 1998 and Subsequent Model Motor Vehicles," Title 13, California Code of Regulations, Section 1978, and the listed vehicle models comply with those standards.

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 and Smog Index 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 3rd day of July 1997.

R. B. Summerfield, Chief
Mobile Source Operatins Division

E.O.# A-15-310
Page 1 of 2

17.11.00 Supplemental Data Sheet
.01 1998 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Manufacturer: NISSAN MOTOR CO., LTD. Exh Eng Fam: WNSXV01.631A Evap Fam: WNSXR0085RCA

All Engine Codes in Engine Fam: CA X 49S ___ 50S ___ AB965 __ , ORVR : Yes X No ___

Exh Std: CA Tier-1 ___ TLEV ___ LEV X ULEV ___ SULEV ___ , US EPA Tier-1 ___

Veh Class(es): PC X LDT1 ___ LDT2 ___ MDV1 ___ MDV2 ___ MDV3 ___ MDV4 ___ MDV5 ___

Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)

Fuel Type(s): Dedicated X Flex-Fuel __ Dual-Fuel __ Bi-Fuel __ Gasoline X Diesel __

CNG ___ LNG ___ LPG ___ M85 ___ Other (specify)_____

Exh Emiss Test Fuel(s): Indo ___ CBG X CNG ___ LPG ___ M85 ___ Other(specify)_____

Diesel: 13 CCR 2282 ___ 40 CFR 86.113-90 ___ 40 CFR 86.113-94 ___

Evaporative Emission Test Procedure : California ___ Federal X

Service Accum: Std AMA X Mod AMA ___ Mfr ADP ___ Other (specify)_____

NMOG Test Procedure: N/A ___ Std X Equiv ___ R/L Test Proc: SHED ___ Pt Source X

Engine Configuration: L4 Displacement: 1.6 Litters 97.5 Cubic Inches

Valves per Cylinder: 4 Rated HP: 115 @ 6000 RPM

Engine: Front X Mid ___ Rear ___ Drive: FWD X RWD ___ 4WD-FT ___ 4WD-PT ___

Exhaust ECS (eg., EGR, MFI, TC, CAC): TWC(2)/HO2S(2)/EGR/SFI
(use abbreviations per SAE J1930 JUN93)

Continued on next page

Issue Date : 04/26/97
Revision Date :

E.O.# A-15-310
Page 2 of 2

17.11.00 Supplemental Data Sheet
.01 1998 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES (cont'd)

Manufacturer: NISSAN MOTOR CO.,LTD. Exh Eng Fam: WNSXV01.631A Evap Fam: WNSXR0085RCA

Engine Code (also list CA/49ST/50ST)	Vehicle Models (if coded see attachment)	Trans. (M5,A4 etc.)	ETW or Test Wt	DPA or RLHP	Ignition (ECM/PCM) Part No.	EGR System Part No.	Catalytic Converter Part No.
AG16DCM1 (CA)	NISSAN SENTRA 4-DOOR	M5	2625	6.7	ECM JA18G44	EGR VALVE AEY77-95	FR:1M5 RR:Axxx4
	NISSAN SENTRA XE 4-DOOR		2750	7.0			
	NISSAN SENTRA GXE 4-DOOR						
	NISSAN SENTRA GLE 4-DOOR						
	NISSAN 200SX						
	NISSAN 200SX SE						
BG16DCM1 (CA)	NISSAN SENTRA 4-DOOR		2625	6.1			
	NISSAN 200SX		2750	6.4			
AG16DCA1 (CA)	NISSAN SENTRA XE 4-DOOR	A4	2750	6.7	ECM JA18G45		
	NISSAN SENTRA GXE 4-DOOR						
	NISSAN SENTRA GLE 4-DOOR						
	NISSAN 200SX						
	NISSAN 200SX SE						

Issue Date : 04/15/97
Revision Date :