State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-15-328
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 1999 model-year Nissan Motor Co., Ltd. exhaust emission control systems are certified as described below for light-duty trucks:

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

Fuel Type: Gasoline

Engine Family: XNSXT02.423B Displacement: 2.4 Liters (146 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 TLEV certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	Non-Methane Organic Gases	Carbon Monoxide	Oxides of Nitrogen	Formaldehyde	Carbon Monoxide (20°F)
3751-5750	50,000	0.160	4.4	0.7	0.018	12.5
	100,000	0.200	5.5	0.9	0.023	n/a

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

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.98 RAF for 1999 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle Weight (lbs.)	Miles	Non-Methane Organic Gases	Carbon Monoxide	Oxides of Nitrogen	Formaldehyde	Carbon Monoxide (20°F)
3751-5750	50,000	0.073	1.1	0.1	0.001	8.6
	100,000	0.086	1.3	0.2	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 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 16th day of June 1998.

R. B. Summerfield, Chief
Mobile Source Operations Division

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17.11.01 1999 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: XNSXT02.423B Evap Fam: XNSXE0110MBA

All Eng Codes in Eng Fam: CA X 49S 50S AB965 ,ORVR : YES NO X

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

Veh Class(es): PC LDT1 LDT2 X 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 CFR86.113-94

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: 2.4 Litters 145.8 Cubic Inches

Valves per Cylinder: 4 Rated HP: 143 @ 5200 RPM

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

Exhaust ECS (eg., EGR, MFI, TC, CAC): TWC(2)/HO2S(2)/EGR/SFI

(use abbreviations per SAE J1930 JUN93)

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17.11.01 1999 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES
(Continued)

Manufacturer: NISSAN MOTOR CO., LTD. Exh Eng Fam: XNSXT02.423B Evap Fam: XNSXE0110MBA

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.
AK24ECM2 (CA)	NISSAN FRONTIER XE REGULAR CAB TRUCK 4 x 4	M5	3875	15.4	ECM MEC04-080	EGR Valve VASA001	FR:3S6 RR:3S5
	NISSAN FRONTIER XE KING CAB TRUCK 4 x 4		4000				
BK24ECM2 (CA)	NISSAN FRONTIER XE REGULAR CAB TRUCK 4 x 4		3875	14.0			
	NISSAN FRONTIER XE KING CAB TRUCK 4 x 4		4000				

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