State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-27-82

Relating to Certification of New Heavy-Duty Motor Vehicles

MACK TRUCKS, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43101, and 43102 of the Health and Safety Code; and

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

IT IS ORDERED AND RESOLVED: That the following motor vehicles which have a manufacturer's gross vehicle weight rating (GVWR) greater than 14,000 pounds are certified using diesel-cycle engines listed below:

Model Year: 2001

Engine Manufacturer	Engine Family	Engine Displacement Liters (Cubic Inches)		Engine Model Year and Certification Executive Order No.	
Mack Trucks	1MKXH11.9G58	11.9	(787)	2001	A-27-81

Engine and vehicle models and codes are listed on attachments.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulate Matter
1.2	15.5	2.0	0.10

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulate Matter
0.3	1.8	1.8	0.03

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional lower-emission NOx standard pursuant to Title 13, California Code of Regulations, Section 1956.8(a)(1).

BE IT FURTHER RESOLVED: That for the listed vehicle models, the manufacturer has submitted 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 manufacturer is certifying the listed vehicle models to the running loss and useful life standards listed in Section E.1.(a) of the "California Evaporative Emission Standards and Test Procedures for 2001 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models 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).

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 attachments.

Executed at El Monte, California this 6th day of September 2000.

R. B. Summerfield, Chief
Mobile Source Operations Division

ATTACHMENT

E1

LARGE ENGINE EVAPORATIVE EMISSION FORM

Manufacturer: Mack Trucks, Inc

A-27-82

1. Model Year 2001
2. Date 8/9/2000
3. Process Code New Submission
4. Test Data Set Number 1
5. EPA Standardized Evaporative Family name 1MKXH0000G58
6. Fuel CNG
7. A.) Evaporative Certification Standard 86.098-11 - Diesel Cycle **B.) Weight Catagory** GVWR > 26K

8. **Evaporative Results**

	Test 1	Test 2	Test 3	
Date of Test	4/13/1999			
3 Diurnal g/test	0.656			~~4.00~~ 2.0
2 Diurnal g/test	NR			
Running Loss g/test	NR			
Spit Back g/test	NR			
Pre 1996 Evap Test g/test	NA			

9. **Evaporative Family/Engine Comparison Information**

Evaporative Family Code	Engine Manufacturer	Engine Family	Evaporative Control System
VEHICLE MODELS	CNG/LNG TANK 1 (GAL)	CNG/LNG TANK 2 (GAL)	
MR	90	60	
MR	100	50	
LE	100	50	
MR	150		
LE	150		
CH	150	150	
CH	150		