## State of California AIR RESOURCES BOARD

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

MACK TRUCKS, INC.

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

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

IT IS ORDERED AND RESOLVED: That the following 2000 model-year Mack Trucks, Inc. diesel-derived engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Compressed Natural Gas/(CNG) or Liquefied Natural Gas (LNG)

Displacement

Engine Family Liters Cubic Inches

YMKXH11.9G55 11.9 787

Exhaust Emission Control Systems and Special Features

Engine Control Module Turbocharger Oxygen Sensor Charge Air Cooler

The engine models and codes are listed on attachments.

BE IT ORDERED AND RESOLVED: That the following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour under the Federal Test Procedure ("FTP") for Heavy-Duty Diesel Engines (Title 13, California Code of Regulations, Section 1956.8):

	Non-Methane	Carbon	Nitrogen	Particulate
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Matter</u>
"FTP"	/ 1.2	15.5	2.5	0.05

BE IT FURTHER RESOLVED: That the following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

	Non-Methane	Carbon	Nitrogen	Particulate
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Matter</u>
"FTP"	0.3	1.3	2.3	0.03

BE IT FURTHER RESOLVED: That for the listed engine 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, Sections 2035 et seq.).

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

Engines 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 \_

R. B. Summerfield, Chief

Mobile Source Operations Division

## LARGE ENGINE MODÈL SUMMARY

E0: A-27-77

Process Code: New Submission

Manufacturer: Mack Trucks, Inc.

13302 Pennsylvania Avenue

EPA Engine Family: YMKXH11.9G55

6.Torque @ RPM (SEA Gross) 5.Fuel Rate: (lbs/hr) @ peak HP (for diesels onty) 3.BHP@RPM (SAE Gross) 2.Engine Model 1.Engine Code

QS, ECM TAA, TIBI 8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930 100 95 7.Fuel Rate: mm/stroke@peak torque **FAMILY 55** ≰ ₹ Ž Ž 1260 @ 1250 1180 @ 1250 Manufacturer Family Name: 121 133 4.Fuel Rate: mm/stroke @ peak HP (for diesel only) ₹ X 350 @ 1800 325 @ 1950 E7G-350 E7G-325