State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-290-96 Relating to Certification of New Heavy-Duty Engines and Vehicles

DETROIT DIESEL CORPORATION

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

Pursuant to the December 15, 1998 Settlement Agreement between the Air Resources Board and Detroit Diesel Corporation and any modifications to the Settlement Agreement;

IT IS ORDERED AND RESOLVED: That the following engines and emission control systems produced by the manufacturer are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Model Year: 2001

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

_	Displacement		Exhaust Emission Control	
Engine Family	<u>Liters</u>	Cubic Inches	Systems and Special Features	
1DDXH08.5FJG	8.5	522	Turbocharger	
			Charge Air Cooler	
			Engine Control Module	
			Gaseous Fuel Mixer	
			Throttle Body Gaseous Fuel Injection	
			Oxygen Sensor	

Engine models and codes are listed on the attachments.

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

	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Particulate Matter
Standards	1.2	15.5	2.0	0.05
Certification	0.8	2.2	1.5	0.01

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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 the listed engine models are certified for use in urban buses.

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 aforementioned engine family has been conditionally certified subject to the following conditions:

- 1. The Settlement Agreement is in effect.
- 2. The manufacturer is in compliance with all applicable certification requirements of the Settlement Agreement.

Engines certified under this Executive Order must conform to all applicable California emission regulations and to all applicable terms and conditions of the Settlement Agreement.

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

Executed at El Monte, California this ______ day of January 2001.

R. B. Summerfield, Chief Mobile Source Operations Division

Manufacturer: Detroit Diesel Corpertation Engine category: On-highway HDDE EPA Engine Famiy: 1DDXH08.5FJG, Mfr Family Name: SERIES 50G-2.0 NOX Process Code: New Submission

Engine Model S. mary Form

66.5 M/X, ECM, TC, CAC, TB1 66.5 4, O.S 8. Fuel Rate: 9. Emission Control (lbs/hr)@peak torque Device Per SAE J1930 7.Fuel Rate: mm/stroke@peak torque 6.Torque @ RPM (SEA Gross) 890@1200 890@1200 4. Fuel Rate: 5. Fuel Rate: mm/stroke @ peak HP (Ibs/hr) @ peak HP (for diesel only) (for diesels only) 94.0 94.0 3.BHP@RPM (SAE Gross) 275@2100 275@2100 1.Engine Code 2.Engine Model CNG 962 975

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