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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-4-61 Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

Pursuant to the authority vested in the Air Resources Board at Sections 43000.5, 43013, and 43018 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 diesel engines and exhaust emission control systems produced by the manufacturer are certified as described below for use in heavy-duty off-road equipment:

Model Year: 2000

Typical Equipment Usage: Tractor

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Engine Power Ratings Range: 175 - 750 horsepower, inclusive

Fuel Type: Diesel

	Displacement		Exhaust Emission Control		
Engine Family	Liters	Cubic Inches	Systems and Special Features		
YJDXL12.5001 (650HA)	12.5	763	Charge Air Cooler Turbocharger Electronic Control Module		

The engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The exhaust emission certification standards and certification values in grams per brake horsepower-hour (g/bhp-h) for total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

Exhaust Emissions (g/bhp-h)					Smoke Opacity (%)		
Standard Certification	<u>THC</u> 1.0 0.2	<u>CO</u> 8.5 0.4	<u>NOx</u> 6.9 5.7	<u>PM</u> 0.4 0.1	<u>Accel</u> 20 13	<u>Lug</u> 15 1	<u>Peak</u> 50 28

BE IT FURTHER RESOLVED: That the listed engine models comply with "Exhaust Emission Standards and Test Procedures—Heavy-Duty Off-Road Diesel-Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels—1996 and Later Heavy-Duty Off-Road Diesel-Cycle Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned modelyear.

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 2425 *et seq.*).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 247^{4} day of January 2000.

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R. B. Summerfield, Chief Mobile Source Operations Division

Engine Model Sur hary Form

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Deere Power Systems Group of Deere & Company Manufacturer:

Engine category: Nonroad Cl PA Engine Famy: YJDXL12:5001 Mfr Family Name: 650HA

New Submission Process Code:

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