California Environmental Protection Agency AIR RESOURCES BOARD	John Deere Power Systems	EXECUTIVE ORDER U-R-004-0347 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2009	9JDXL03.0113	2.4, 3.0	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Smoke Puff Limiter	Pump, Compressor, Generator Set, Other Industrial Equipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT	--	--	4.1	1.7	0.21	7	4	12

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 27th day of June 2008.

D. Lourenco for

Annette Hebert, Chief
Mobile Source Operations Division

U-R-004-0347

Engine Model Summary Form

Manufacturer: **John Deere Power Systems**

Engine category: **Nonroad CI**

EPA Engine Family: **9JDXL03.0113**

.fr Family Name: **250HAA**

Process Code: **New Submission**

Attachment p. 1 of 3

1.Engine Code	2.Engine Model		3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
4024HF285A	4024H	kW	80.47@2800	54.30@2800	34.18@2800	211.66@2000	69.3@2000	31.09@2000	EM EC SPL DDI, TC, CAC
5030HF285A	5030H	74	99.24@2800	50.70@2800	39.89@2800	251.48@2000	63.4@2000	35.63@2000	EM EC SPL
5030HF285F	5030H	SI	76.44@2400	45.10@2400	30.41@2400	203.54@1800	51.9@1800	26.28@1800	EM EC SPL
5030HF285E	5030H		82.48@2400	47.80@2400	32.24@2400	225.67@1800	56.8@1800	28.75@1800	EM EC SPL
5030HF285D	5030H		91.19@2400	52.30@2400	35.28@2400	251.48@1800	63.6@1800	32.21@1800	EM EC SPL
5030HF285B	5030H		82.48@2800	45.20@2800	35.61@2800	209.44@2000	54.7@2000	30.76@2000	EM EC SPL
4024HF285C	4024H		80.47@2800	52.80@2800	33.25@2800	208.71@2000	65.9@2000	29.66@2000	EM EC SPL

Engine Model Summary Form

Manufacturer: **John Deere Power Systems**
Engine category: **Nonroad CI**
FPA Engine Family: **9JDXL03.0113**
Family Name: **250HAA**
Process Code: **Running Change**

Attachment P. 2 of 3 U-R-004-0347

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
5030HF286	5030H	76.44@2800	41.30@2800	32.41@2800	189.53@2000	50.7@2000	28.44@2000	EM EC SPL DI, TC, CAC
5030HF285G	5030H	96.56@1800	69.80@1800	35.32@1800	N/A	N/A	N/A	EM EC SPL
4024HF285B	4024H	80.47@1800	61.80@1800	29.33@1800	N/A	N/A	N/A	EM EC SPL

Engine Model Summary Form

Manufacturer: **John Deere Power Systems**
Engine category: **Nonroad CI**
EPA Engine Family: **9JDXL03.0113**
Mfr Family Name: **250HAA**
Process Code: **Running Change**

Attachment p. 3 of 3 U-R-004-0347

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
5030HT012	5030H	91.19@2600	49.20@2600	35.96@2600	251.48@1950	64.2@1950	35.19@1950	EM EC SPL
5030HT011	5030H	83.15@2800	44.00@2800	34.62@2800	221.24@2000	59@2000	33.16@2000	EM EC SPL

DPI, TC, CAC ↓