California Environmental Protection Agency AIR RESOURCES BOARD	DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY	EXECUTIVE ORDER U-R-004-0264 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)
2006	6JDXL08.1037	8.1	Diesel	8000

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

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		FEL	-	-	6.3	-	-	-	-	-
		CERT	-	-	6.1	0.8	0.15	10	3	18

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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 21st day of December 2005.

Raphael Susnowitz

for Allen Lyons, Chief
Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: **John Deere Power Systems of Deere and**

Engine category: **Nonroad CI**

EPA Engine Family: **6JDXL08.1037**

. amily Name: **450HF**

Process Code: **New Submission**

Attachment
U-R-004-0264

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
6081HRW30	6081H	285.64@2100	136.50@2100	96.70@2100	1000.00@1400	188.6@1400	89.05@1400	EM EC SPL, eAc, TC
6081HZ016	6081H	303.08@2100	120.30@2100	102.52@2100	976.41@1500	159.5@1500	95.24@1500	EM EC SPL
6081HDW08	6081H	199.28@2200	102.60@2200	76.13@2200	781.72@1500	151.5@1500	76.66@1500	EM EC SPL
6081HH019	6081H	300.39@2200	137.10@2200	101.72@2200	840.71@1600	165.3@1600	89.22@1600	EM EC SPL
6081HT006A	6081H	199.15@2100	99.60@2100	70.55@2100	672.57@1500	132@1500	66.80@1500	EM EC SPL
6081HT006B	6081H	217.25@2100	107.80@2100	76.42@2100	733.78@1500	145.3@1500	73.42@1500	EM EC SPL
6081HT008	6081H	261.50@2000	138.40@2000	93.30@2000	998.53@1500	196@1500	99.17@1500	EM EC SPL
6081HF070A	6081H	335.26@2200	160.00@2200	116.85@2200	1126.85@1400	226@1400	108.03@1400	EM EC SPL
6081HH027	6081H	383.54@2200	181.20@2200	134.42@2200	1087.03@1600	219@1600	118.17@1600	EM EC SPL
6081HH026	6081H	347.33@2200	162.70@2200	120.71@2200	974.93@1600	195.7@1600	105.63@1600	EM EC SPL