California Environmental Protection Agency AIR RESOURCES BOARD	JOHN DEERE POWER SYSTEMS OF DEERE	EXECUTIVE ORDER U-R-004-0283 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)
2007	7JDXL06.8105	4.5	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Engine Control Module, Smoke Puff Limiter, Turbocharger, Charge Air Cooler	Loader, Tractor, 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):

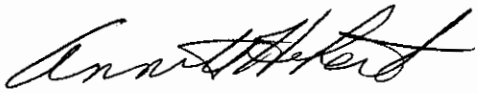
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	-	-	3.4	1.5	0.25	13	3	25

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 20 day of December 2006.



Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Form

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

Engine category: **Nonroad CI**

EPA Engine Family: **7JDXL06.8105**

Family Name: **350HAC**

Status Code: **New Submission**

Attachment
EO# U-R-004-0283

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
4045HF285A	4045H	146.18@2400	111.50@2400	60.17@2400	413.65@1600	131.8@1600	47.40@1600	EM EC SPL TC, CAC
4045HF285G	4045H	139.47@2400	102.10@2400	55.14@2400	387.17@1600	120.2@1600	43.33@1600	EM EC SPL
4045HF285F	4045H	124.72@2400	91.80@2400	49.56@2400	354.72@1600	111.9@1600	40.33@1600	EM EC SPL
4045HF285C	4045H	115.33@2400	84.80@2400	45.77@2400	317.11@1600	101.1@1600	36.45@1600	EM EC SPL
4045HF285D	4045H	115.33@2200	90.40@2200	44.71@2200	354.72@1600	113.7@1600	40.97@1600	EM EC SPL
4045HF285E	4045H	124.72@2200	97.00@2200	47.98@2200	387.17@1600	124.3@1600	44.78@1600	EM EC SPL
6068HF285E	6068H	173.00@2400	82.40@2400	66.69@2400	491.89@1500	101.22@1500	51.22@1500	EM EC SPL
6068HF285F	6068H	173.00@2200	86.60@2200	64.18@2200	526.55@1500	108.46@1500	54.83@1500	EM EC SPL
6068HF285G	6068H	155.56@2400	75.70@2400	61.31@2400	441.01@1500	93.6@1500	47.43@1500	EM EC SPL
6068HF285H	6068H	155.56@2200	79.20@2200	58.78@2200	491.89@1500	102.6@1500	52.01@1500	EM EC SPL
6068HF285I	6068H	139.47@2400	68.90@2400	55.80@2400	396.76@1500	87.3@1500	44.23@1500	EM EC SPL
6068HF285J	6068H	139.47@2200	72.30@2200	53.64@2200	441.01@1500	95.4@1500	48.88@1500	EM EC SPL
4045HF285J	4045H	126.06@1800	115.80@1800	46.90@1800				EM EC SPL
4045HF285I	4045H	158.25@1800	144.10@1800	58.32@1800				EM EC SPL
4045HF285H	4045H	132.77@1800	121.70@1800	49.26@1800				EM EC SPL
6068HDW70	6068H	152.88@2350	74.90@2350	59.31@2350	506.64@1600	102.1@1600	55.03@1600	EM EC SPL
6068HT068	6068H	123.38@2100	68.20@2100	48.29@2100	401.18@1500	90.4@1500	45.84@1500	EM EC SPL
6068HT069	6068H	173.00@2000	93.80@2000	63.28@2000	544.25@1500	120.7@1500	61.07@1500	EM EC SPL
4045HT056	4045H	127.40@2200	85.60@2200	49.81@2200	387.17@1600	106.56@1600	45.11@1600	EM EC SPL
6068HT063A	6068H	167.63@2100	86.70@2100	61.45@2100	551.63@1500	118.2@1500	59.75@1500	EM EC SPL
6068HT063B	6068H	173.00@2100	90.50@2100	64.05@2100	569.33@1500	121.85@1500	61.58@1500	EM EC SPL
4045HL281	4045H	116.67@2300	90.10@2300	46.61@2300	353.40@1600	117.2@1600	42.16@1600	EM EC SPL