California Environmental Protection Agency AIR RESOURCES BOARD	DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY	EXECUTIVE ORDER U-R-004-0236 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	6JDXL02.9050	2.9	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Smoke Puff Limiter, Direct Diesel Injection, Turbocharger	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
37 ≤ kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT	-	-	6.5	1.4	0.34	11	5	29

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 15TH day of December 2005.

Allen Lyons, Chief
Mobile Source Operations Division

Engine Model Summary Form

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

ngine category: **Nonroad CI**

PA Engine Family: **6JDXL02.9050**

fr ily Name: **320TB**

rocess Code: **New Submission**

Attachment
U-R-004-0236

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
3029TF270A	3029T	71.08@2500	71.00@2500	29.99@2500	182.90@1600	81@1600	21.83@1600	EM SPL TC DFI
3029TFG71	3029T	71.08@2500	71.70@2500	30.27@2500	181.42@1700	80.7@1700	23.18@1700	EM SPL TC DFI
3029TF270B	3029T	71.08@2500	71.70@2500	30.27@2500	181.42@1700	80.7@1700	23.18@1700	EM SPL TC DFI
3029TF270D	3029T	64.37@1800	82.10@1800	24.92@1800				EM SPL TC DFI
3029TF270C	3029T	64.37@2500	67.10@2500	28.31@2500	167.41@1500	73.6@1500	18.63@1500	EM SPL TC DFI
3029TPY22	3029T	64.37@2400	64.50@2400	26.11@2400	174.05@1600	75.4@1600	20.38@1600	EM SPL TC DFI
3029TPY21	3029T	56.33@2400	55.70@2400	22.56@2400	154.13@1500	65.4@1500	16.56@1500	EM SPL TC DFI
3029TPY23	3029T	49.62@2400	50.00@2400	20.24@2400	145.29@1500	62.3@1500	15.77@1500	EM SPL TC DFI