Pratt & Whitney Geared Turbofan™ Engine Cleared for First Flight: New engine targets double-digit improvements in fuel burn, environmental emissions and engine noise making it the greenest jet engine available today

Pratt & Whitney’s Geared Turbofan [GTF] demonstrator engine has completed Phase II ground tests and has been cleared for flight testing.

EAST HARTFORD, Conn. (PRWEB) July 3, 2008 -- In a GTF engine, a state-of-the-art gear system allows the engine's fan to operate at a different speed than the low-pressure compressor and turbine, resulting in greater fuel efficiency and a slower fan speed for reduced noise.

In 2007, the GTF was selected as the exclusive power for the new Mitsubishi Regional Jet and the proposed Bombardier CSeries.

News Facts:

More than 12% reduction in fuel burn at an engine level, when installed on a next generation aircraft the savings is an average of 413,000 gallons per year. More than 12% reduction in CO2 emissions, equal to 3,000 fewer tonnes of CO2 per aircraft, per year 50% reduction in NOx emissions, a leading contributor to smog and air quality 50% reduction in engine noise, which is 20 dB quieter than the strictest noise standards introduced this year. Double-digit reductions in overall operating costs equal to more than $1.5 million in cost savings per aircraft, per year

"The ground test program has been a complete success and the Geared Turbofan engine has met or exceeded all performance targets. This demonstrator engine has confirmed the laboratory results of our Fan Drive Gear System demonstrating excellent efficiency and operational characteristics."

"The double-digit reductions in fuel burn, engine noise, environmental emissions and operating costs we've targeted make the Geared Turbofan engine the best solution for the next generation of commercial aircraft."

Bob Saia Pratt & Whitney Vice President

Next Generation Product Family  Recent Press Releases:

May 28, 2008 Geared Turbofan(TM) Engine Completes Phase II Ground Testing, Cleared for First Flight

May 5, 2008 World's Airlines Meet to Review Pratt & Whitney Geared Turbofan(TM) Engine Development

April 21, 2008 Airbus to Flight Test Pratt & Whitney Geared Turbofan(TM) Engine
April 10, 2008 Pratt & Whitney Geared Turbofan(TM) Demonstrator Engine Begins Phase II Ground Testing

March 28, 2008 Pratt & Whitney Geared Turbofan(TM) Engine to Power All Nippon Airways' Mitsubishi Regional Jets

December 4, 2007 Pratt & Whitney's Geared Turbofan(TM) Demonstrator Engine Achieves Full Power

November 13, 2007 Pratt & Whitney's Geared Turbofan(TM) Demonstrator Engine Begins Ground Testing Ahead of Schedule

November 6, 2007 Pratt & Whitney Vice President Alan Epstein Testifies to Benefits of Geared Turbofan(TM) Engine

October 9, 2007 Pratt & Whitney Launches Geared Turbofan(TM) Engine with Mitsubishi Regional Jet

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http://www.pw.utc.com

How Engines Work

UTC Homepage

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About Pratt & Whitney:

Pratt & Whitney is a world leader in the design, manufacture and service of aircraft engines, space propulsion systems and industrial gas turbines. United Technologies, based in Hartford, Conn., is a diversified company providing high technology products and services to the global aerospace and building industries.

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