

## **Pratt & Whitney Gears Up for First PurePower® Engine to Test for Bombardier CSeries Aircraft**

FARNBOROUGH, England, /PRNewswire-FirstCall/ -- FARNBOROUGH AIR SHOW -- Pratt & Whitney is on target for its first engine to test for the new PurePower PW1500G engine for the Bombardier\* CSeries\* aircraft. The engine testing begins at Pratt & Whitney's West Palm Beach facility in Florida later this summer.

The PurePower family of engines is designed to power the next generation of passenger aircraft. Pratt & Whitney is a United Technologies Corporation company.

"We are very excited about our first engine to test, and we are well prepared as a result of our technology maturation program," said Bob Saia, vice president, Next Generation Product Family. "We successfully completed all technology maturation testing, and we will complete our full test readiness review next month."

The PW1500G test program will run a total of eight test engines over the next 24 months with aircraft first flight and engine certification scheduled for 2012. Entry into service is scheduled for 2013.

Pratt & Whitney recently concluded PurePower engine core testing with more than 260 accumulated test hours. In addition to the core testing, Pratt & Whitney has performed critical module-level testing for the PurePower engine program, including: fan drive gear system testing with simulations of more than 60,000 takeoffs and landings; hundreds of hours of testing on the low and high-pressure compressor with advanced designs meeting or exceeding efficiency and operability goals.

The PurePower PW1000G engine features an advanced gear system that allows the engine's fan to operate at a slower speed than the low-pressure compressor and turbine. The combination of the gear system and all-new advanced core delivers double-digit improvements in fuel efficiency and emissions with a 50-percent reduction in noise over today's engines.

The PurePower PW1000G engine is the exclusive power for the Bombardier CSeries aircraft scheduled to enter service in 2013 and the Mitsubishi Regional Jet scheduled to enter service in 2014. The PW1000G engine was recently selected by Irkut Corporation to power the new MC-21 aircraft family scheduled to enter service in 2016.

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