



---

5 June 2008

## ROLLS-ROYCE REACHES ADVENT TECHNOLOGY MILESTONE

Rolls-Royce has achieved a significant milestone in the Adaptive Versatile Engine Technology (ADVENT) research programme into next-generation US military aerospace platforms, with the successful completion of the Preliminary Design Review (PDR).

The ADVENT technology demonstrator programme, being carried out by the Rolls-Royce North America Technologies Inc. (LibertyWorks™) unit, is funded by the US Air Force Research Laboratory (AFRL).

It focuses on variable cycle engine features to achieve a propulsion system with high-thrust capabilities for take-off and manoeuvring that, in addition, optimises fuel efficiency for long range and loiter operations.

Phil Burkholder, Chief Operating Officer, LibertyWorks, added: *"In addition to the successful PDR, we are also progressing the ADVENT programme by beginning component rig testing of an adaptive fan system at our Indianapolis facilities.*

*"Both the PDR and the rig testing are examples of how LibertyWorks is meeting the requirements of its customer, working towards the shared vision of creating an ADVENT family of next generation engines that deliver the range and persistence required for 21<sup>st</sup> century aircraft."*

In August 2007, Rolls-Royce was awarded a \$296 million contract by the AFRL for work to develop ADVENT technologies that focus on an adaptive engine architecture to provide a 25 per cent improvement in average fuel consumption and reduced temperature cooling air for thermal management.

Rolls-Royce involvement in the programme includes cost-sharing with the AFRL and underscores the company's commitment to investing in technologies, capabilities and infrastructure that will lead to continuous improvement in the environmental performance of aero engines.

## **NOTE TO EDITORS**

1. LibertyWorks™, known officially as Rolls-Royce North American Technologies Inc., has a long history of service to the US military. Based in Indianapolis, Indiana, US, LibertyWorks™ - previously known as Allison Advanced Development Co. (AADCo) - has contributed technology to the F-35 Lightning II LiftFan and F136 engine; IHPTET (Integrated High Performance Turbine Engine Technology) program; and the RATTLS supersonic missile.
2. Rolls-Royce, a world-leading provider of power systems and services for use on land, at sea and in the air, has established a strong position in global markets - civil aerospace, defence aerospace, marine and energy.
3. It has an installed base of more than 20,000 military engines in service with 160 customers in 103 countries, making it the world's second largest defence aero engine company, with the largest customer base and over a quarter of the world's installed military engines. The company offers engines in all key market sectors - combat, transport, helicopters, trainers, patrol, maritime and reconnaissance - and is well positioned on a number of new programmes that will deliver products over the next decade and beyond.
4. Rolls-Royce continues to invest in core technologies, products, people and capabilities with the objective of broadening and strengthening the product and service portfolio, improving efficiency and enhancing the environmental performance of its products. These investments create high barriers to entry.
5. Annual sales were \$14.6 billion in 2007, of which 55 per cent came from services revenues. The firm and announced order book at the end of 2007 stood at \$90.7 billion, of which aftermarket services represent 30 per cent, providing visibility of future levels of activity.

### **For visual material**

Please visit the [Rolls-Royce Media Room](#) for images and The [Newsmarket](#) for broadcast-standard video. If you are a first-time user of The Newsmarket, we encourage you to take a moment to register. If you have any questions about using The Newsmarket, please email [Journalist Help](#).

### **For further information, please contact:**

Maria Weber  
Director, Corporate Communications  
Rolls-Royce Corporation  
Indianapolis, IN  
Tel : 317-230-6662  
Email: [maria.y.weber@Rolls-Royce.com](mailto:maria.y.weber@Rolls-Royce.com)

Website: [www.rolls-royce.com](http://www.rolls-royce.com)