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RAYTHEON AWARDED ADS-B TRIALS CONTRACT BY EUROCONTROL

HARLOW (25th August, 2005) - - - Raytheon Systems Limited (RSL) has secured a contract from Eurocontrol for the provision of four ADS-B trials systems. The contract is in support of Eurocontrol's CASCADE Programme (see <http://www.eurocontrol.int/cascade>), which aims at validating the use of ADS-B as an alternative or complementary means to radar for ATC surveillance.

The ADS-B systems will be located in the Republic of Ireland (Irish CAA), the UK (NATS), the Netherlands (LVNL), and Germany (DFS) and will be trialled for two years. The first system will be delivered to Ireland in late August, 2005.

“This contract with Eurocontrol is a key step forward in the development of RSL's breakthrough technology in ADS-B,” said Alastair Blair, Director of ATMS at RSL. “Our initial demonstrations around the world over the past 12 months have already shown the significant advantages that our solution can provide in air traffic management, particularly in congested airspace or at long ranges.” Blair went on to say, “Raytheon has developed a prototype 1090 MHz ADS-B Ground Station with unique Extended Squitter decoding features. In collaboration with RSL, Eurocontrol will be assessing the effectiveness of these features which could have a significant impact on future ADS-B 1090 standards.”

The 1090 MHz frequency band is already extensively used and to overcome the congestion, (also known as 'FRUIT' - False Replies Unsynchronised In Time), RSL has conducted extensive development work and developed new algorithms to improve decoding capability. Trials have shown the system works very effectively in congested air traffic environments, extracting and successfully decoding ADS-B messages even when overlapped or garbled by other signals.

Over the past 12 months development systems have been demonstrated in a variety of countries including Singapore, Mongolia, Canada, the USA, Ireland and Germany. These initial demonstrations were of varying duration, depending on the requirements of the individual authority.

In addition to providing the ADS-B systems themselves the contract calls for RSL to assist the Air Navigation Service Providers in the installation of the stations at the chosen sites and connect with their data collection network, to provide training for the operating personnel at each site and to provide maintenance support during the operation period.

The introduction of ADS-B would enable the safe reduction in aircraft separation where there is currently no radar coverage. ADS-B also offers considerable cost and space benefits over existing SSR systems. Unlike SSR, ADS-B does not use a rotating antenna and the system itself is highly compact compared with SSR electronics cabinets. Cost benefits could be substantial compared to those of Secondary Radar in a 'green field' situation.

RSL, the UK-based subsidiary of Raytheon Company, employs over 1500 people. The company is a prime contractor and major supplier to the UK Ministry of Defence and is involved in numerous, high priority programmes for the US Department of Defense. RSL designs, develops and manufactures a range of high technology defence and commercial electronics.

Raytheon Company (NYSE: RTN), with 2004 sales of \$20.2 billion, is an industry leader in defence and government electronics, space, information technology, technical services, and business and special mission aircraft. With headquarters in Waltham, Massachusetts, Raytheon employs 80,000 people worldwide.

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