

## **Next-Generation Avionics Test an Outstanding Success**

*Defense Technologies, Inc. (DTI), together with the North Carolina Department of Transportation and Adaptive Aerospace Group, Inc., evaluated the Automatic Dependent Surveillance-Broadcast (ADS-B) integrated into DTI Control Station One system with a number of live, manned aircraft. The data collected at this experiment will help DTI integrate Unmanned Aerial Vehicles into the National Airspace System.*

Ranlo, North Carolina (DTI) February 5, 2008 – DTI’s Control Station One system, equipped with an ADS-B transponder, a device that greatly enhances collision avoidance capability, performed the first in a series of tests to prepare for integration of Unmanned Aerial Vehicles (UAV) into the National Airspace System. By recording the coordinated behaviors of multiple manned aircraft each equipped with ADS-B transmitters, DTI engineers were able to improve their vehicle collision detection algorithms making airspace integration more of a reality.

“Once [ADS-B] technology is present in all aircraft, it will be very easy to share the skies with the manned aviation community,” said Chris Allport, lead test engineer. “This data will help us assess how well our algorithms are working. Once perfected, we will be able to plot a safe course through even the busiest airspace.”

The test event was coordinated with the North Carolina Department of Transportation and Adaptive Aerospace Group, Inc., who each provided an ADS-B equipped aircraft and pilot for the evaluation.

The event was attended by representatives from the North Carolina State Bureau of Investigation, the National Guard, the North Carolina Forestry Service, the President and the Director of Grants and Sponsored Programs for Robeson Community College. The North Carolina State Highway Patrol also participated in the event by adding an ADS-B unit to one of their helicopters and flying around the test airspace.

DTI is currently planning the next test event in which a fully simulated UAV will automatically adjust its flight plan to avoid manned aircraft.

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About Defense Technologies, Inc.

Defense Technologies, Inc. is committed to developing technologies to help protect America’s citizens, inside our borders and those serving our great nation abroad. DTI is a manufacturer of miniature ADS-B equipment intended for use by General Aviation and Unmanned Vehicles.