

Aurora Flight Sciences

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The IFF transponder is integrated into a commercially procured DA42 aircraft configuration that is marketed internationally. This testing consists of ground checkout of modes 1, 2, 3A/C, and S only via hard-wired ground test, and civil transponder operation (Mode S) in flight testing. While the system can operate as an unmanned aircraft under control of a ground operator, the vast majority of flight testing is done with an on-board pilot; any unmanned flight testing is closely coordinated with FAA and DoD representatives. Note that this system was used successfully during unmanned and manned flight testing in December 2021 and February 2022, with no issues noted by Patuxent River ATC/MIDLANTAFC.