

From: Candice Gershon

To: Behnam Ghaffari

Date: September 01, 2017

Subject: 1186-EX-ST-2017

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Message:

The purpose of this test is to demonstrate the functionality, calibrate the sensors, and demonstrate the precision Electronic Attack (EA) capability of the Conformal Loadbearing Antenna System on the modified EA-Tigershark Unmanned Aircraft System (UAS). CLAS is an array of conformal load bearing antenna structures (CLAS antennas) and other components of a high performance EA system that has been equipped on a modified Tiger Shark Block III. The antennas under test are completely conformal to the aircraft surface, so they add minimal weight and drag during flight. The article under test is an EA payload package that consists of an array of conformal load bearing antenna structures, back end hardware, and novel algorithms.

The goal of the flight test is to test, analyze, and demonstrate precision EA beamsteering, to a fixed target on the ground. Additionally, JST will be testing and analyzing both transmit and receive performance, for performance estimation of a full duplex communications system; using the EA antennas and RF hardware.