

From: Brent Adams

To: John Kennedy

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Message:

Exhibit Information

6a.

The Bulldog system consists of an Active Electronically Steered Array (AESA) and Advanced Digital Receiver / Exciter (ADREX), coupled with a Global Positioning System (GPS) receiver and an Inertial Measurement Unit (IMU). These system components provide precise time and location of radar transmissions and returns for additional processing.

6b.

The specific objective of this testing is to receive transmit wideband radar waveforms via an Active Electronically Scanned Antenna and receive them with a wideband digital receiver and process the data for advanced Radar applications. The experimental data needs to be collected with the platform in static conditions (aircraft not moving) and in dynamic conditions (aircraft flying).

6c.

The expected results for this program are to develop and characterize Raytheon funded cutting-edge receiver/exciter technology. This is done through data collection via timelines developed to exploit the hardware. It is also used to develop and characterize new, advanced software for Air-to-Ground & Air-to-Air modes. This data collection will set the ground-work for more structured radar software mode development in the future