

Exhibit A

Overview

This is a supplemental application to existing application 0352-EX-PL-2008 for an airborne radar system to which call sign WE2XUJ was assigned.

Program Description - The Advanced Aviation Reconnaissance System (AARS) is being developed as a replacement for an existing system. The AARS system integrates an airborne radar with a datalink which allows radar data to be transmitted to the ground. The design of the AARS system is intended to be a foundation for several system variations that may be developed for future applications.

The datalink equipment is manufactured by L-3 Communications and is comprised of an Airborne Modem Assembly P/N 60064116+000, an RFE Assembly P/N 60064118+000, and two Antenna Assemblies P/N 60064468+000. The two antennas are directional with a beamwidth of 14 degrees in azimuth and elevation. One antenna is located in the front of the pod and can be directed over the forward hemisphere. The second antenna is located in the rear of the pod and can be directed over the aft hemisphere.

Requested Radiation Permission – The datalink equipment will be installed in the AARS pod with the radar. Preliminary testing will be conducted on the ground at or near the Lockheed Martin facility in Goodyear, Arizona. In this testing, the datalink will transmit while the radar is operating to verify interoperability between the radar and the datalink. Testing of the datalink in Goodyear will only be conducted on the ground.

The AARS pod will then be installed on a Boeing F-15 aircraft for flight testing near the St. Louis metropolitan area. This testing will be as described in the previous application wherein a maximum of six flights are anticipated over a 6 month period. The altitudes to be used for the demonstration flight tests will be bounded by an upper limit of 50,000 feet MSL and a lower limit of 12,000 feet MSL. Boeing regularly conducts flight tests in this area and maintains close coordination with local FAA personnel via flight plans filed prior to test and communications with the FAA during flight tests.

Datalink Description - The datalink operates in two modes. In Mode 1, a data rate of 10.71 Mbps is used with Offset Quadrature Phase Shift Keying. Mode 2 has a data rate of 274 Mbps, with Offset Quadrature Phase Shift Keying. Mode 1 operates with a center frequency range of 7940.00000 MHz. Mode 2 operate with a center frequency range of 8070.00000 MHz.

Transmitter power is 20 Watts maximum in Mode 1 and 40 Watts in Mode 2.

Antenna gain is 18 dBi. Beamwidth is 14 degrees in both azimuth and elevation.