

Exhibit 1

Program

The specification is for a radar system to be used for collecting multiband multi-polarization radar cross section data as part of a Boeing Company proprietary development. The equipment will be installed in building 66 test facility. All radiation will be inside the building with all the doors closed. Most of the walls in the room, will be lined with a broadband radar absorbant material with a metal backplate.

Description of Equipment

The radar will transmit in VHF through Ku bands with coherent, modulated pulses. The transmitter for S through Ku band is a traveling wave tube (TWT) amplifier and for VHF through L band is a solid state amplifier. A frequency synthesizer will supply the frequency pulse before amplification.

The receiver contains a low-noise RF amplifier and intermediate frequency stages to match the transmitting waveform. The receiver output is an in-phase and quadrature-phase video channel, which is digitized and recorded for later processing.

The radar is controlled by a PC and all data is stored on disk for further processing.

Theory of Operation

The radar will be capable of measuring a variety of targets and will be used to perform measurement diagnostics. The radar will collect data in the inverse Synthetic Aperture Radar (ISAR) and Synthetic Aperture Radar (SAR) modes and perform processing on the data.

Specific Objectives

The objective sought for the test facility is to perform Radar Cross Section (RCS) measurements on targets in a short period of time and with minimal cost. This can only be achieved by being close to the manufacturing and prototype facilities.

Benefit

The facility will be used to develop and advance methods for measuring the RCS of targets at close range, allow engineering development of software algorithms, and provide real time feedback to the prototype facilities.