

1. Introduction

- L3HARRIS-Randtron is an antenna manufacturer located San Mateo County
- The current towers will radiate low power radio frequency (RF) across the canyon to permit antenna testing (Figure 1 and 2)
- Proposing adding new frequencies to current tests
- Request to support USN contract, supporting Advanced Hawkeye program which plays a major role in National Defense & Homeland Security

2. Detailed Explanation of the Antenna Test

The E-2D Advanced Hawkeye (AHE) System has the capability to perform electronic scanning.

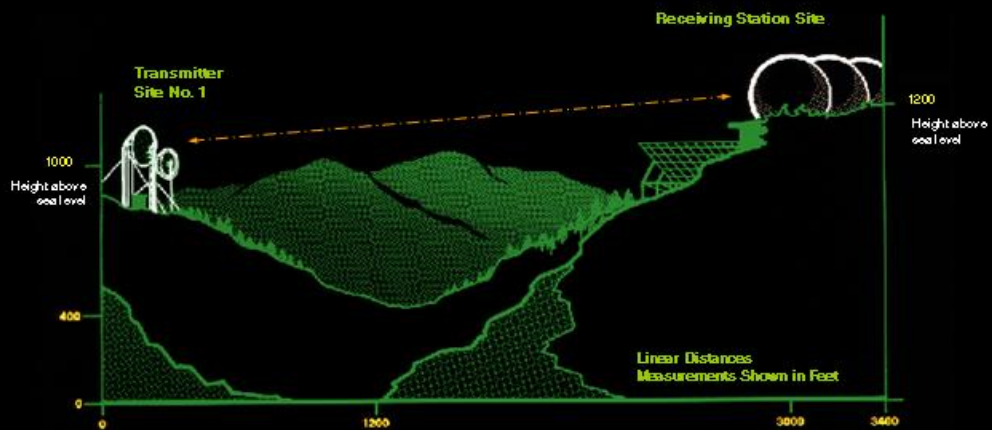
There are tests designed in expanding the electronic capability. This capability would benefit E-2D operations by extending the capability to the full extent of the system detection capability and provide weapon system operators with greater situational awareness at the maximum electronic extent of the antennas.

The purpose of the request of is to set forth the requirements for contract work necessary to perform the tests at a broader range of frequencies.

The tests will include:

- Radiation Pattern in Azimuth angles
- Radiation Pattern in Elevation angles
- Gain measurements
- VSWR measurements
- Isolation measurements
- Coupling measurements

Elevation Profile of Far Field Laboratory



- Accommodate - Up to 34' Antenna Inside Bubble and Large Arrays without Bubble
- Far Field Automated Antenna All Weather Range
- Mountain Top - 3000' Separation and 800' Drop
- 3 Test Sites - 3 Axis Pedestals - Elevator
- 15,000 Square Feet Laboratory Receiving Test Area



Figure 1 The Antenna Test Range

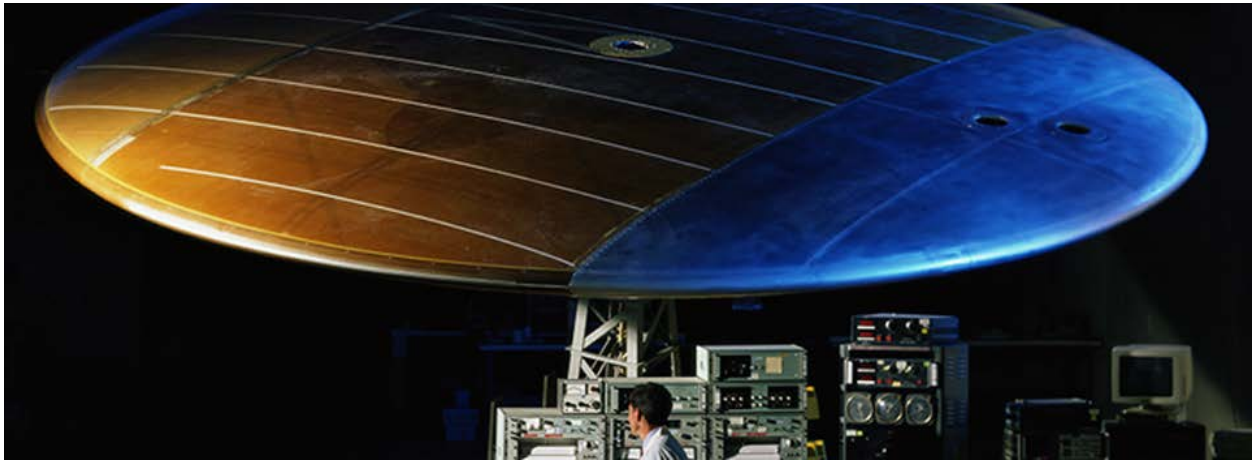


Figure 2 A typical antenna under test