

Project Description

Fixed and Mobile Calibration signals are proposed for operating commercially available signal generators and radar field analyzer to increase the efficiency of radar receiver detection technology and testing. The mobile test signal requested will be in a fixed position while transmitting.

Un-modulated carrier wave signals to be adjusted within the requested frequency range are needed to evaluate radar receive path performance, in the Lockheed Martin Electronics Park existing test facilities. This application covers a commercially available test tool called a RASS (Radar Analysis Support System) intended for general engineering development, field training, production testing and fulfilling the following radar contracts:

Contract Number	Contract Title
4100627880	UK TPS-77 RADAR
LVQ2TPS77	LATVIA 2 EA. TPS-77
ADATS/228	UK CONTRACTOR LOGISTIC SUPPORT (CLS)
008/PAME-RJ/2014	BRAZIL TPS-B34 MID-LIFE UPGRADE
W8485-152394	CANADIAN COASTAL RADAR SUSTAINMENT R&O
C-089/AM/2015	LATVIA TPS-77 RADAR UPGRADE
P-005/AM/2015	LATVIAN TPS-77 MULTI-ROLE RADAR PROGRAM

FAA Coordination

The following 24 month coordination was obtained from the FAA Eastern Regional Office for the mobile antenna and fixed test tower signals:

Syracuse, NY (Mobile Antenna within 1km radius) 43-06-43 N, 076-11-18 W:

FREQ M1271-1279 MHz, SER# NGT160004

FREQ M1363-1381 MHz, SER# NGT160006

Antenna: Intersoft Model LPA114

Antenna Type: directional log periodic dipole

Gain: 5db

Site Elevation: 405ft

Height: 10 ft above ground

Azimuth: Mobile, 0-360 (horizon pointing)

Syracuse, NY (Fixed Tower) 43-06-47 N, 076-11-29 W:

FREQ M1271-1279 MHz, SER# NGT160005

FREQ M1363-1381 MHz, SER# NGT160007

Antenna: Lansdale Inc. Model H-5000R

Antenna Type: directional Horn

Gain: 17db

Site Elevation: 405ft

Height: 95 ft above ground

Azimuth: Fixed, 212 deg True North (horizon pointing)