

Technical Description

The Boeing Company

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Submitted by

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The Boeing Company

Frequency Management Services MC: 2T-22

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JUSTIFICATION:

This STA is required for a radar system ground-based testing operating in the 14.6 - 15.35 GHz band.

DATES OF OPERATION

June 1 – December1, 2014

OBJECTIVE & TEST DESCRIPTION

The Ku-band radar will be positioned in an elevated test house at the Kent Space Center and used for phenomenological collections. The radar system represents a combination of phased array antennas originally developed for communications applications and which are presently licensed under call sign WE2XSM (file number 0181-EX-ML-2013). The system is designed such that operating frequency, beam direction, and power level can be coordinated/adjusted to avoid other in-band systems, and the system computer will disable the transmit beam if it is within 2 degrees of any preprogrammed interference angle.

TEST OVERVIEW

TX Manufacturer:	The Boeing Company
TX Model:	DNW Block 2, 3
Frequencies:	14.60 - 15.35 GHz
Emission Designators:	10M00PON
Transmit Output Power:	42.5 dBm (peak input to antenna)
Antenna Gain:	22 dBi
Effective Radiated Output:	1968 Watts (peak)
Antenna Type:	Phased array,

STOP BUZZER POINT OF CONTACT:

Name	Daniel Sego
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LOCATION

Kent, WA

Radius of operation is 10 Kilometers around NL 47-25-08; WL 122-15-11