Technical Description

The Boeing Company
Submitted by
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The Boeing Company
Frequency Management Services MC: 2T-22
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JUSTIFICATION:
This experimental license is required to evaluate High Frequency (HF) antenna design through testing to support the Japan V-22 contract through the U.S Navy under contract # N00019-12-G-0006.

DATES OF OPERATION
Start Date: January 1, 2016
Required for 24 months beyond approved start date

OBJECTIVE & TEST DESCRPTION
Two radios will be keyed at the same time not to exceed 30 seconds at each frequency across the HF frequency band. Below is the known equipment but other equipment may be used.

TEST OVERVIEW

Frequencies:	2-30 MHz Low pass filter used to suppress harmonics above 30 MHz.
Emissions:	N0N (CW)
Effective Radiated Output:	400 Watts (Maximum)
Station Class:	FX

TX Manufacturer:	COTUM
TX Model:	Z-11
Transmit Output Power:	50 Watts (Maximum)
Antenna Gain:	0 dB (Maximum)
Effective Radiated Output:	50 Watts (Maximum)
Antenna:	Towel bar

TX Manufacturer:	Rohde & Schwarz Signal Generator with Amplifier
TX Model:	SMB100A
Transmit Output Power:	75 Watts (Maximum)
Antenna Gain:	2 dB (Maximum)
Effective Radiated Output:	100 Watts (Maximum)
Antenna:	C&S Fanlite

STOP BUZZER POINT OF CONTACT: Vincent Mancuso at 610-591-7215

FIXED LOCATION

Location:	Cherry Point Marine Corps Air Station, NC
Latitude:	34° 54' 02" N
Longitude:	76° 52' 50" W
Radius:	5 Kilometers