

Technical Description

The Boeing Company

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By

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The Boeing Company

Frequency Management Services MC: 2T-22

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JUSTIFICATION:

Direct Military Sales Contract with USAF/AFMC for KC-46A Engineering and Manufacturing Development under CONTRACT NO: FA8625-11-C-6600

These frequencies are requested to support Boeing KC-46A EMD program. The KC-46A is the next generation multi-role Tanker offering improved aerial refueling capability, strategic military transport, medevac, and enhanced survivability. This requirement supports flight and ground tests of the aerial refueling system including drogue control law development, performance evaluation and customer demonstration flight operations. **These frequencies are being requested through the FCC in lieu of DoD because equipment utilized for this test is not standard equipment used on the KC-46A and does not need a Certificate of Spectrum Supportability.**

OBJECTIVE & TEST DESCRIPTION

The system supported by this request will operate as a matched pair of independent INS/GPS systems cross-linked between two vehicles via TDMA radio link to produce a relative position and orientation measurement.

OPERATION OVERVIEW

Start Date:	October 1, 2013
Stop Date:	October 1, 2015
Manufacturer:	Microhard Systems Inc.
Model:	Nano Series n1720
Frequencies:	Two ea in band M1670.1-1700
Emissions:	280KF1D and 480KF1D
Transmit Output Power:	1 Watt (max)
Antenna Gain:	3 dBi
Effective Radiated Output:	1.21662 W
Station Class:	FX, MO

STOP BUZZER POINT OF CONTACT:

David Black, 544-8583

LOCATIONS

Location: West Coast Water United States (All 50)
(Excluding Canada)
Area bounded by 49N106W, 32N113W, 23N125W, 28N127W, 49N130W
NAD83
Max Flight Level: 27,000 Feet AGL

Location: Seattle, WA (Excluding Canada)
Latitude: 47-31-56 N
Longitude: 122-18-58 W
NAD83
Radius: 110 Kilometers
Max Flight Level: 27,000 Feet AGL