

Technical Description

The Boeing Company

Submitted by
Joel D. Thorsheim
The Boeing Company
Frequency Management Services MC: 2T-22
P.O. Box 3707
Seattle, WA 98124-2207
206-544-6066

JUSTIFICATION:

Direct Commercial Sales (DCS) Contract with India for P-8I Development and Testing under CONTRACT NO: 171/DAA/C/08-09LRMRASW/AIRCRAFT (08)

These frequencies are requested to support Boeing P-8I aircraft production and testing. The P-8I is a long-range anti-submarine warfare, anti-surface warfare, intelligence, surveillance and reconnaissance aircraft capable of broad-area, maritime and littoral operations. The P-8I is a variant of the P-8A Poseidon that Boeing is developing for the U.S. Navy. This is a military derivative of the Next-Generation 737-800. Boeing is building the P-8I at its production facility in Renton, Washington and has a Direct Commercial Sale agreement with India.

This specific system is an Indian made system that is designed to use spectrum that is allocated in India for Mobile Satellite Systems.

This experimental request is being submitted in lieu of a Special Temporary Authorization extension to extend use currently approved under STA WF9XSO (0432-EX-ST-20112).

OBJECTIVE & TEST DESCRIPTION

This experimental request is required to conduct Electromagnetic Interference (EMI) testing on a Mobile Satellite System. The test will consist of turning on the satellite system and transmitting into free space on the ground. No actual satellite use will be part of this test.

DATES OF OPERATION

Required for 24 months from date of approval.

TEST OVERVIEW

TX Manufacturer:	Avantel
TX Model:	1346100000XX
Frequencies:	2670 - 2690 MHz
Emission Designator:	1K20G1D
Transmit Output Power:	9 Watts (peak)
Effective Radiated Output:	22 Watts (peak)
Antenna Gain:	6 dB
Antenna Type:	Patch
Antenna Polarization:	LHCP
Antenna Beam-width:	90°

STOP BUZZER POINT OF CONTACT:

Name	Terry Bowman
Phone Number	(253) 657-8059

FIXED LOCATION

Seattle, WA

47-30-50N 122-17-38W

Location of fixed operation will be within a 2 Kilometer radius of above lat/long