Technical Description

The Boeing Company

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by

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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.

The experimental license applications are likely to require coordination with NTIA for two reasons. First, the original P-8A aircraft was designed for the U.S. Navy and, as such, it was designed to employ spectrum segments that are allocated in the United States either solely or partially for U.S. government use. Second, in modifying the aircraft for sale to the Indian government, a possibility exists that different frequencies may have been employed in order to align the aircraft operations with the frequency allocation table for India. To the extent that such adjustments may have been necessary, it still appears likely that the frequencies employed by the aircraft are allocated in the United States either solely or partially for use by the Federal government.

OBJECTIVE & TEST DESCRPTION

The PASS system will be used alongside the aircraft to test the receive system on the aircraft.

TEST OVERVIEW

Manufacturer: Model:	ULTRA Electronics Portable Acoustic Sonobuoy Simulator (PASSII)
Frequency Band: Frequencies in MHz:	136.0 – 173.5 MHz 162.25 (Ch 1), 163.75 (Ch 3), 166.00 (Ch 6), 166.75 (Ch 7), 172.75 (Ch 15), 138.25 (Ch 38), 155.50 (Ch 84)
Emissions:	75K0F1B, 75K0F3D, 199KF1D, 210KF3D, and 360KF9D
Transmit Output Power: Antenna Gain: Effective Radiated Output:	1.0 Watt -6 dBi 0.15316 Watts
Station Class:	MO

SYSTEM DESCRIPTION

The PASS system is a sonobouy in a box and can simulate sonobouy emissions. Specific applications of the PASS unit include: Evaluation and calibration of acoustic system performance, Troubleshooting of acoustic suites, Acoustic Suite Health and Welfare / Preflight Operations Checks (end-to-end test), and Bit Error Rate Calculation.

"STOP BUZZER" POINT OF CONTACT:

Wes Saulsberry 253-657-7590

LOCATION

These operations could be done at any one of 3 locations inside the 15 kilometer radius centered around the below location.

Location:	Seattle, WA
Latitude:	47-30-57 N
Longitude:	122-17-42 W
·	NAD83
Radius:	15 Kilometers