

Technical Description

The Boeing Company

Submitted: 03/20/2013
by
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REASON FOR REQUEST

This experimental license request is being submitted in lieu of a Special Temporary Authority renewal for FCC Call Sign WG9XDR (file number 0855-EX-ST-2012).

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 Special Temporary Authorization request is 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 DESCRIPTION

This requirement supports the Inertial Measurement System and RADAR system during flight test operations.

OPERATION OVERVIEW

Start Date: June 16, 2013
Stop Date: 24 months from date of approval

Manufacturer: Spectrum Sensors & Control
Model: 65210ES
Frequencies: 2205.5, 2216.5, 2239.5, 2268.5, and 2282.5 MHz
Emissions: 1M50P1D
Transmit Output Power: 0.5 Watts
Antenna Gain: 3 dBi
Effective Radiated Output: 1 Watt
Station Class: MO
Manufacturer: Raytheon
Model: AN/APY-10
Frequency Band: 9350 – 10150 MHz
Emissions: 537MQ3N, 10M3Q3N, 117MQ3N, 607MQ3N, 650MQ3N, and 7M03P0N
Transmit Output Power: 500 Watts
Antenna Gain: 33 dBi
Antenna Type: Parabolic
Effective Radiated Output: 60.8 Megawatts
Station Class: MO
Antenna:

STOP BUZZER POINT OF CONTACT:

Troy Kindall at 206-962-9406 or Tyler Wilson at 206-618-1740

LOCATIONS

Location: Coos Bay, OR (Excluding Canada)
Latitude: 43-25-02 N
Longitude: 124-14-44 W
NAD83
Radius: 600 Kilometers
Max Flight Level: 27,000 Feet AGL

Location: Warning Area W291 (Excluding Mexico)
Latitude: 29-00-00 N
Longitude: 121-30-00 W
NAD83
Radius: 750 Kilometers
Max Flight Level: 27,000 Feet AGL