

## Technical Description

The Boeing Company

By Allen Lindsay, SR  
Frequency Manager  
Global Spectrum Management MC: 1K-105  
P.O. Box 3707  
Seattle, WA 98124-2207  
(425)237-9168

### **JUSTIFICATION**

The Boeing Company request an Special Temporary Authority (STA) to support integration and testing of the Honeywell Aspire 400 INMARSAT satellite communications system.

### **OBJECTIVE & TEST DESCRIPTION**

Boeing will utilize the Integrated Systems Aircraft Lab in building for fixed operations and Boeing aircraft for mobile operations.

<b>Manufacturer:</b>	<b>Model:</b>
Honeywell	Aspire 400
Cobham	Aviator HGA-7001

The following Frequency, Power and Emissions will be used in support of common INMARSAT type services:

**Transmitter Power:** 40 W  
**Antenna Gain:** 12 dBi

<b>Frequency (MHz)</b>	<b>Power (ERP)</b>	<b>Emission</b>
1626.5 – 1660.5; 1668-1675	387 Watts	25K0G7W
1626.5 – 1660.5; 1668-1675	387 Watts	50K0D7W
1626.5 – 1660.5; 1668-1675	387 Watts	50K0G7W
1626.5 – 1660.5; 1668-1675	387 Watts	100KG7W
1626.5 – 1660.5; 1668-1675	387 Watts	100KD7W
1626.5 – 1660.5; 1668-1675	387 Watts	200KG7W
1626.5 – 1660.5; 1668-1675	387 Watts	200KD7W
1626.5 – 1660.5; 1668-1675	387 Watts	110K0D7W

## Technical Description

### **LOCATIONS:**

Location: Boeing Lab

Lat/Lon: 47-31-50 N 122-18-40 W

Station Class FX/MO

Flight level: 0-40,000 ft

Mobile Radius: 804 Km

**Point of Communication: INMARSAT**

### **STOP BUZZER POINT OF CONTACT:**

Stop Buzzer for Operation: Larry Barstow, (206)276-1013