

Technical Description

February 13, 2019

The Boeing Company

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Global Spectrum Management MC: 1K-105
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JUSTIFICATION

The Boeing Company request an experimental license to support integration and testing of INMARSAT compatible equipment and systems for use on-board commercial aircraft. Various types of INMARSAT equipment will be used in order to perform system integration and testing on various avionics configurations. The testing and integration will only use equipment that has been approved by INMARSAT for operation on their satellite network.

OBJECTIVE & TEST DESCRIPTION

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

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

Frequency (MHz)	Power (ERP)	Emission
1626.5 – 1660.5; 1668-1675	950 Watts	25K0G1W
1626.5 – 1660.5; 1668-1675	950 Watts	25K0G7W
1626.5 – 1660.5; 1668-1675	950 Watts	50K0G1W
1626.5 – 1660.5; 1668-1675	950 Watts	50K0G7W
1626.5 – 1660.5; 1668-1675	950 Watts	50K0D1W
1626.5 – 1660.5; 1668-1675	950 Watts	50K0D7W
1626.5 – 1660.5; 1668-1675	950 Watts	100KG1W
1626.5 – 1660.5; 1668-1675	950 Watts	100KG7W
1626.5 – 1660.5; 1668-1675	950 Watts	100KD1W
1626.5 – 1660.5; 1668-1675	950 Watts	100KD7W
1626.5 – 1660.5; 1668-1675	950 Watts	200KG1W
1626.5 – 1660.5; 1668-1675	950 Watts	200KG7W
1626.5 – 1660.5; 1668-1675	950 Watts	200KD1W
1626.5 – 1660.5; 1668-1675	950 Watts	200KD7W
1626.5 – 1660.5; 1668-1675	950 Watts	40K0D1W
1626.5 – 1660.5; 1668-1675	950 Watts	8K40G1D
1626.5 – 1660.5; 1668-1675	950 Watts	1K68G1D
1626.5 – 1660.5; 1668-1675	950 Watts	10K5G1D

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1626.5 – 1660.5; 1668-1675	950 Watts	21K0G1D
1626.5 – 1660.5; 1668-1675	950 Watts	840HG1D
1626.5 – 1660.5; 1668-1675	950 Watts	110KD7W

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: Nicolae Samson, 425-234-4056, Cell: 206-419-4577