

Technical Description

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by:

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PURPOSE:

An experimental license is required to support operation of INMARSAT mobile terminal CONUS wide. The terminal will only be operated using leased satellite service from an authorized INMARSAT service provider.

TEST DESCRIPTION

The purpose of this operation is to monitor the quality of service being provided to Boeing commercial aircraft operating CONUS wide, and is primarily used to isolate communications difficulties to either the aircraft or the service provider link. The transmitters in use are identical to those operated on the aircraft, and include the EMS SATCOM models HSD-400 and HSD-440. In addition the configuration also uses the same antenna system that is installed on the aircraft, which is the AMT-50. The transmitters are FCC and FAA TSO certified, and the system configuration is approved for operations on the INMARSAT network.

The transmitter power output is 55 Watts maximum, with an antenna gain of 12 dBi, yielding an ERP of 532 Watts. In accordance with section 1.1307 of the Commissions rules, an environmental radiation hazard study is also included as a separate exhibit.

FREQUENCIES, POWER, AND EMISSIONS

Frequency	Emissions	RF Power (ERP)	Station Class	Frequency Tolerance
1626.5 – 1660 MHz	200KD7W 200KG7W 100KD7W 100KG7W 50K0D7W 50K0G7W 40K0G1D 40K0G1E 25K0G7W 21K0G1D 10K5G1D 7K20G1E 6K80G1E 1K68G1D 840HG1D	532 Watts	MO	0.001

TIMEFRAME OF OPERATION

Please approve this license for 24 months from date of approval.

LOCATION

CONUS wide.

STOP BUZZER CONTACT INFORMATION

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