

INMARSAT AIRCRAFT MAINTENANCE SUPPORT TERMINAL

The Boeing Company

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by:

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Why an Experimental License is Necessary

An experimental license is required to support operation of an INMARSAT terminal at our aircraft maintenance hangar, located in Gary, IN. 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 out of the Gary International Airport, 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 Emission

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	FX	0.001

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Timeframe of Operation

This license application is submitted as a replacement for the STA WE9XGI, which supported initial operations of the Hangar terminal. The new license is required not later than August 2010.

Location

Boeing Aircraft Hangar, Gary, IN
Coordinates: 41-37-25 N 87-25-03 W NAD83

Stop Buzzer Contact Information

The “Stop Buzzer” point of contact:

Ben Welton: Telephone: 219-977-4906