

Raytheon Marine Company

License Applications:

Inmarsat-Experimental Station

April 1, 2000

Item 4. Particulars of Operation

Note 1.

The TNL-7001-TT3020B JUE-75A of this equipment meets the INMARSAT system specification requirements for Standard C modes of operation.

Note 2.

This equipment (JUE-200M) meets the INMARSAT system specification requirements for Standard M modes of operation.

Note 3.

This equipment (JUE45A) MII) meets the INMARSAT system specification requirements for Standard A mode of operation.

Note 4.

This Equipment is an addition per this license modification 3230 Std B and the 3250/E Std STN (Debeg)

Item 6. Directional Antenna

The JUE-45A MII Inmarsat-A Ship Terminal Station utilizes a directional parabolic antenna with a 15 degree beamwidth at the – 3dB points. This antenna tracks the satellite and is capable of positions from the horizon to zenith (3 degrees to 90 degrees elevation) and 360 degrees in the horizontal plane. (See attached brochures)

The JUE-200M Inmarsat-M Ship Terminal Station utilizes a beam steerable phased array antenna right hand circular polarization and 2 axis stabilization. This antenna track the satellite and is capable of position for the horizon the zenith (3 degrees to 90 degrees elevation) and 360 degrees in the horizontal plane.

The JUE-75A TNL 7001 and TT3020B Inmarsat-C and TT3064A Mini-m Marine Mobile Earth Station have omnidirectional antennas with hemispherical radiation pattern.
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January 1, 1999

Item 10. Narrative Statement of Purpose

Raytheon Marine Company sells and maintains the Inmarsat Ship Terminal Equipment onboard ships around the world in support of the new Global Maritime Distress and Safety System (GMDSS). The intent of this station is solely for the purpose of providing technical maintenance training and support as well as operator training for Inmarsat Type Approved Shipboard Terminal Equipment sold and serviced by Raytheon Marine Company. The purpose of this training is to provide our customers with, not only well-qualified service, but also knowledgeable operators who are thoroughly competent in the proper usage of these Inmarsat Satellite Communications Systems.