

Raytheon

131-EX-ST-2000

17 March 2000

Federal Communications Commission
Experimental Radio Service
P.O. BOX 35830
Pittsburgh, PA 15251-5320
ATTN: Mr. Carl Huie
(202) 418-2430

When for a totoc!
Request for Special Temporary Authorization

Dear Mr. Huie:

I am Faxing this application to secure a special temporary authorization (STA) for the purpose of testing satellite control terminals for control of Submarine SHF Phased Array Antenna for the Naval Undersea Warfare Center (NUMC) in Newport, RI. I am also sending a paper copy of this application, and attachments, a completed form 159 and a \$45 check to your mailing address in Pittsburgh, PA.

Background

The Raytheon Company has a contract with Naval Undersea Warfare Center (NUWC) in Newport, RI, for terminals to control Submarine SHF Phased Array Antenna. Contract Number: N66604-96-C-A047. The contracting Officer is Mr. Victor Howard.

Purpose

This STA will be used to support testing of terminals for satellite control of Submarine SHF Phased Array Antenna for the NUMC. This license is necessary for the Raytheon Company to meet it's government contract requirements and to develop future hardware for this customer.

Location of Operation: The Raytheon Company, BLDG. R02, 2000 E. Imperial Hwy., Los Angeles, CA., 33.55.74'N, 118.23.32'W

Duration of Test: 4/01/2000 to 10/01/2000, six months.

Frequency of Operation: 7.9 to 8.4GHz

Maximum ERP: 44.3dBW *~7 (dB)*

Modulation type, and modems used: QPSK or BPSK EF Data 3650 or Comquest 248A modem

Calculated bandwidth: 0.5GHz

Antenna polarization and beam-width: right-hand circular polarity, 5 degrees elevation, 2.2 degrees Azimuth

Satellites to be used and location:

EPAC Primary 135 degrees W longitude, 46.5 degrees elevation.

EPAC Reserve 130 degrees W longitude, 48.5 degrees elevation.

WLNT Primary 52.5 degrees W longitude, 11.4 degrees elevation.

SLEP Satellite 123 degrees W longitude, 46.5 degrees elevation.

Mr. Kuan Lee can answer all technical questions regarding this applications, please contact him at (310) 334-7222 from 8AM-4PM PDT, Monday through Friday. I can answer all other questions on this application and I can be reached at (310) 647-4579 8AM-5PM PDT M-F.

Sincerely,

Rick Samoian
Rick Samoian

(310) 647-4579

Radio Frequency Coordinator
Raytheon Company

2000 E. El Segundo, CA 90245-0902

per HPM; comd; P+Mugue Comd.

5 dBm @ FLW