

0311-EX-ST-1999

Hughes Network Systems, Inc.

11717 Exploration Lane
Germantown, MD 20876

ORIGINAL

Federal Communications Commission
Equip. Radio Services
P.O. Box 358320
Pittsburgh, PA 15251-5320

Dear Sir/Madam:

Pursuant to Section 5.56 of the Commission's Rules, 47 C.F.R. § 5.56, Hughes Network Systems ("HNS"), a division of Hughes Electronics Corporation, hereby requests Special Temporary Authorization to operate an experimental station at a temporary location for a limited period of time, to develop and test equipment intended for export. The technical specifications of the operation are listed below, in accordance with Section 5.56. An FCC Remittance Advice form and a fee payment of \$45 are attached.

This license will cover testing in the United States of equipment to be used in connection with the Thuraya mobile satellite system by end users in the United Arab Emirates. Transmissions will take place on frequencies licensed to AMSC and all operations will be coordinated with AMSC prior to any transmissions. Transmissions will take place between handheld mobile terminals and fixed transmitters on building rooftops that simulate the operation of a satellite transmitter.

Pursuant to Section 5.56, HNS submits the following information:

1. Applicant name and address

Hughes Network Systems, a division of Hughes Electronics Corporation
11717 Exploration Lane
Germantown, MD 20876
Attn: Stephan Carrier

2. Need for special action

STA is requested to permit testing of equipment for a limited period of time

3. Type of operation

Testing and link measurements of prototype equipment intended for export

4. Purpose

To determine whether theoretical propagation calculations are confirmed by field testing

5. Time and date

Dec. 1, 1999 – May 30, 2000

6. Class and nature of service

Fixed and mobile, experimental

7. Location

Within 50 miles of Rockville, MD
39-06-29 N. Lat., 77-09-03 W. Long.
Within 50 miles of San Diego, CA
32-54-31.2N. Lat., 117-11-25.5W. Long.

8. Equipment

- a. SPS (Satellite Path Simulator) (designed and manufactured by HSC (Hughes Space Communication)) – 1 unit
- c. Thuraya UT (User Terminal designed and manufactured by Hughes Network System) – 10 units maximum
- d. Directional Helix Antenna designed and manufactured by Tecom. Type #:401020L – 2 units
- e. Thuraya GS (Ground Segment designed and manufactured by Hughes Network Systems) – 2 unit

9. Frequencies

1545-1559 MHz, 1646.5-1660.5 MHz

10. Power

Nominal power level is +11 dBm EIRP; however, occasionally the units may be tested with maximum power level of +35 dBm EIRP.

11. Type of emission

QPSK, 23.4 ksymbols/sec, 31.6 kHz bandwidth

12. Height of antenna

Fixed base antennas will be mounted on building rooftops attached to existing structures. If any new antenna support structures are erected, they will not exceed the height of any existing structures on the rooftops.

Anti-Drug Abuse Act Certification

HNS certifies that neither HNS, nor any of the officers or directors of HNS, is subject to a denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862.

For additional information about this operation, please contact Stephan Carrier (301) 428-5822.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. Carrier', with a long horizontal flourish extending to the right.

Stephen Carrier