



ANDREW CORPORATION
SATELLITE NETWORKS

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January 3, 2000

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

**Re: Andrew Corporation ("Andrew") Request for Special Temporary Authority
("STA") Covering Earth Station Operations In The Ku-Band**

Dear Sir or Madam:

Andrew hereby submits the following request for STA pursuant to FCC rule section 5.61, 47 C.F.R. § 5.61 (1998). Andrew seeks STA, for a time period not to exceed one hundred and eighty (180) days, to test and operate fixed transmit-receive satellite earth station equipment in the Ku-Band at two locations.

Pursuant to rule section 5.61, Andrew specifies the following information in support of its request for STA:

(1) Name, address, phone number (also e-mail address and facsimile number, if available) of the applicant.

See above. Andrew's points of contact are Ralph Brooker, Director, Satellite Network Engineering, 703-548-6777, and its FCC counsel, Russ Taylor, Gardner, Carton & Douglas, 1301 K Street, NW, Suite 900, Washington, D.C. 20005, (202) 408-7172, rtaylor@gcd.com. The FCC may correspond with Andrew's counsel via facsimile no. 202-289-1504.

(2) Description of why an STA is needed.

STA is urgently required to permit the applicant to commence testing and operation of Andrew's newly-developed "GoStation" terminal equipment. The STA will enable Andrew to evaluate the performance of the new equipment, using real-world testing conditions.

(3) Description of the operation to be conducted and its purpose.

See above. Andrew will conduct tests using its GoStation terminal equipment, transmitting and receiving test data (64 kbps up to 2 Mbps) to and from a variety of satellites, including Intelsat satellites.¹ No commercial operations will be conducted. Andrew is a leading manufacturer of satellite transmission and antenna equipment.

(4) Time and dates of proposed operation.

Andrew desires to commence STA operations by January 17, 2000, and intends to test intermittently until at least mid-March, 2000. Andrew is preparing and expects to soon submit an FCC Form 442, intended to secure an experimental authorization that extends beyond the period of time authorized by the STA.

(5) Class(es) of station (fixed, mobile, fixed and mobile) and call sign of station (if applicable).

Fixed Transmit-Receive Satellite Earth Station.

(6) Description of the location(s) and, if applicable, geographical coordinates of the proposed operation.

- 1) Richardson, Texas; Geographic coordinates: 32° 58' N / 96°41' W
Physical address: 2601 Telecom Parkway, Richardson, TX 75082
- 2) Alexandria, Virginia; Geographic coordinates: 38°48' N / 77°02' W
Physical address: 1800 Diagonal Rd, Suite 500, Alexandria, VA 22314

(7) Equipment to be used, including name of manufacturer, model and number of units.

Andrew intends to deploy a 1.8 meter or 2.4m terminal at the Richardson, Texas site, and a 1.2 meter terminal at the Alexandria, Virginia site.

¹ See *In the Matter of Direct Access to the INTELSAT System, Report and Order*, IB Docket No. 98-192, FCC 99-236 (released Sept. 16, 1999) (permitting users of the INTELSAT system to obtain space segment capacity directly from INTELSAT rather than through an INTELSAT Signatory in the respective Signatory's country).

The transmission equipment used in conjunction with Andrew's STA operations is experimental and will be manufactured by Andrew. Andrew may also use other "off-the-shelf" equipment, antennas, cabling, etc. that, if required, has been approved for use by the FCC.

(8) Frequencies desired.

The Ku-Band:

11.7 – 12.2 GHz (space to earth)

14.0 – 14.5 GHz (earth to space)

The Ku-Band is allocated domestically for the same types of services to be authorized under this STA. Moreover, the Ku-Band is not shared with terrestrial providers and thus has no prior coordination requirement. Finally, the FCC has adopted streamlined application processing procedures for Ku-Band earth station applicants.

Andrew understands that STAs are secondary in nature. Therefore, it agrees to monitor the RF environment to ensure interference-free operations, and pledges to immediately discontinue operations in the unlikely event that harmful interference results.

(9) Maximum effective radiated power (ERP) or equivalently isotropically radiated power (EIRP).

4 watts maximum transmit power; 55dBW EIRP.

(10) Emission designator (see §2.201 of this chapter) or describe emission (bandwidth, modulation, etc.).

Andrew's equipment will operate with band-limited Quadrature Phase Shift Key ("QPSK") or Binary Phase Shift Key ("BPSK") modulation, utilizing a maximum bandwidth of 3 MHz.

(11) Overall height of antenna structure above the ground (if greater than 6 meters above the ground or an existing structure, see Part 17 of this Chapter concerning notification to the FAA).

Andrew does not intend to mount its transmission equipment on any antenna structure that is greater than 6 meters above an existing structure. Andrew's antenna and mounting structure are less than 3 meters in height.

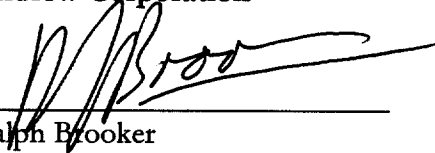
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Andrew certifies that it is not subject to the denial of federal benefits pursuant to the Anti-Drug Abuse Act of 1998.

Based on the foregoing, Andrew respectfully requests that the FCC issue STA for Andrew to test and operate its equipment in the Ku-Band.

Respectfully submitted,

Andrew Corporation

A handwritten signature in black ink, appearing to read 'R. Brooker', written over a horizontal line.

Ralph Brooker

Director, Satellite Network Engineering