

0046-EX-ST-1999

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January 28, 1999

ORIGINAL

Via Federal Express

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

Re: Triton Network Systems, Inc.
Request for Special Temporary Authorization

Dear Sir or Madam:

Triton Network Systems, Inc. ("Triton"), by its counsel, hereby requests Special Temporary Authorization ("STA"). Triton is seeking STA for a period of no longer than 180 days, beginning March 1, 1999. Please find below additional information requested of your office regarding the subject STA request.

1. **Locations of proposed operation:** Triton seeks to perform its experimentation in the area contained in the Orlando metropolitan area (BTA 336), in the rectangular area here defined by the following latitude and longitude coordinates in degrees, hours and minutes:

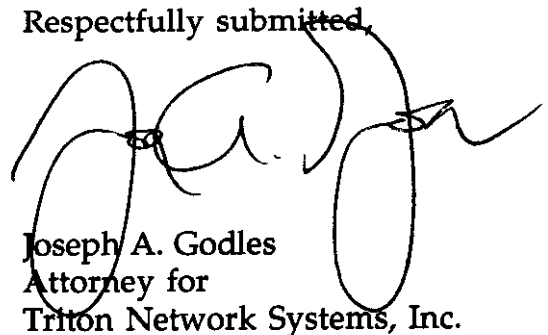
SE Corner 28-16-00N, 81-15-00W
NE Corner 28-51-00N, 81-15-00W
NW Corner 28-51-00N, 81-39-00W
SW Corner 28-16-00N, 81-39-00W
2. **Frequencies desired:**
27.5 GHz – 28.35 GHz (LMDS A1)
3. **Emission designator:** V7W
4. **Maximum power:** Operation of transmitter will never exceed 55 dBW.

5. Station specifications: Point-to-point, multiple points (locations) will be configured in a ring topology, with directional antenna (2° maximum beamwidth at half-power point).
6. Need for special action: Triton is in urgent need for STA to perform experimentation that is critical to its business operations. During the period covered by the STA, Triton will engage in pilot demonstration projects with service providers in the Orlando, Florida, region. The experimentation will provide valuable information to Triton on the use of the above-referenced frequencies as applied to digital RF systems, with the goal of developing new technologies intended to meet the growing demands of ethernet services through telephony. Triton hopes that the outcome of its experimentation will be the creation of new products that provide the public with economic and reliable data communications services. Likewise, Triton seeks, through its experimentation, to advance the art of radio communication in the broadband wireless area in providing fiber-like performance with broadband transceiver technology and in improving microwave range coverage and data throughput using high frequency, high power MMIC chips.

Triton intends to limit potential interference to other operators by coordinating with the existing license holders of the above assigned frequencies.

Please direct any additional questions that you may have with regard to this matter to the undersigned.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'J. Godles', is written over the typed name and title.

Joseph A. Godles
Attorney for
Triton Network Systems, Inc.