

0109-EX-ST-1999

**CALIFORNIA
MICROWAVE**

**MICROWAVE
DATA
SYSTEMS**

175 Science Parkway
Rochester, New York 14620-4261
Tel: (716) 242-9600
Fax: (716) 242-9620

ISO 9001 Registered Quality System

March 18, 1999

Federal Communications Commission
Experimental Radio Services
PO Box 358320
Pittsburgh, PA 15251-5320

RE: Request for Special Temporary Authorization

Dear Sir/Madam:

This is a request for Special Temporary Authorization to operate Experimental point to point radio links in the Rochester New York area in order to do engineering tests on a new radio product.

Microwave Data Systems is a manufacturer of VHF and UHF radios for point-to-point fixed link operations. We are in the final engineering stage of development of a 900-960 MHz 1 Watt spectrally-efficient digital point-to-point full duplex radio. We need an STA in order to test aspects of performance, which cannot be adequately represented in the laboratory, by over-the-air testing on a variety of paths. We urgently need to begin on-air testing as soon as possible in order to meet our production schedule and customer needs.

In addition to the urgency of our need to begin testing, the test period is not expected to extend beyond 6 months, hence an STA is appropriate.

When testing confirms performance, the radio will be submitted for testing by an approved laboratory to FCC Part 101 technical standards.

Our plan is to set up point-to-point links in order to verify the over-the-air performance in a real environment. Radios will be located at the MDS plant at 175 Science Parkway, Rochester, NY, with the other end of the link at the homes of selected engineering employees of MDS. We anticipate that only one link will be operational at any given time.

Name and address of Applicant:

Microwave Data Systems
Attention: Jacob Z. Schanker
175 Science Parkway
Rochester, NY 14620

E-mail address: jschanker@mdsroc.com

Inquiries should be directed to: Jacob Z. Schanker, Director of Agency Compliance
Telephone: 716 242 8454

Location of proposed operation is within a radius of 40 km around 175 Science Parkway,
Rochester, NY 14620. Coordinates of this fixed site are: NL 43-07-06; WL 77-36-43

Operation Start Date: April 1, 1999

Operation End Date: September 30, 1999

The radio transmitter which will be used is the Microwave Data Systems Model MDS 900S, with a transmitter power output of 1 Watt. A maximum of 6 units will be employed. The radio is not yet FCC Verified.

We are requesting the following specific authorization:

Frequency	Station Class	Emission Designator	Authorized Power Watts
933.1750 MHz	FX, MO	200KD1W	20 (ERP)
933.5750 MHz	FX, MO	200KD1W	20 (ERP)
933.9750 MHz	FX, MO	200KD1W	20 (ERP)
942.1750 MHz	FX, MO	200KD1W	20 (ERP)
942.5750 MHz	FX, MO	200KD1W	20 (ERP)
942.9750 MHz	FX, MO	200KD1W	20 (ERP)
954.75 MHz	FX, MO	200KD1W	20 (ERP)
955.55 MHz	FX, MO	200KD1W	20 (ERP)
958.35 MHz	FX, MO	200KD1W	20 (ERP)
959.15 MHz	FX, MO	200KD1W	20 (ERP)

Your prompt action on this request will be appreciated.

Sincerely,



Jacob Z. Schanker, P.E.
Director of Agency Compliance
Att: Form 159