

5-3424-EX-1998

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June 12, 1998

VIA FEDERAL EXPRESS

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

Re: Baron Services, Inc. Request for Special Temporary Authority ("STA")  
for Testing and Demonstration of an X-Band Doppler Weather Radar  
System  
EXPEDITED PROCESSING REQUESTED

Dear Sir or Madam:

Transmitted herewith on behalf of Baron Services, Inc. are an original and one copy of a request for Special Temporary Authority ("STA") to test and demonstrate an X-Band Doppler Weather Radar System for the purpose of detection and display of precipitation targets. This STA application is necessary to begin testing on July 1, 1998.

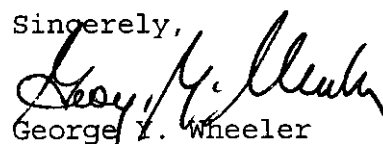
The X-Band Doppler Weather Radar System is manufactured by Baron Services, Inc. This STA request is for the opportunity to install and conduct technical demonstrations during the pendency of the application for permanent authority.

Also transmitted herewith is a check in the amount of \$45.00 in payment of the required filing fee for this request.

It is requested that a stamped file copy of the enclosed filing be returned to us in the enclosed postage prepaid envelope.

Should there be any questions regarding this STA request, please contact the undersigned.

Sincerely,

  
George Y. Wheeler

Enclosure



Baron  
services

June 4, 1998

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

RE: Baron Services, Inc.  
Request for Special Temporary Authority to Conduct Technical  
Demonstrations of an X Band Doppler Weather Radar System

Gentlemen:

Baron Services, Inc., hereby requests immediate grant of Special Temporary Authority ("STA") pursuant to Section 5.56 of the Commission's Rules to install and conduct technical demonstrations of an X and Band Doppler Weather Radar System.

Also transmitted herewith is the required FCC Form 159 and \$45.00 filing fee for this request.

Attached to this request is an exhibit with detailed information regarding the technical aspects of the proposed test program.

In the event any additional information is required, please communicate with the undersigned.

Sincerely,

Robert O. Baron  
President

Baron Services, Inc.  
Special Temporary Authority Request  
Attachment A

FCC PART V - SPECIAL TEMPORARY AUTHORIZATION

Ref: Section 5.56

- 1- **Name and Address:** Baron Services, Inc.  
2121 Metro Circle  
Huntsville, AL 35801
- 2- **Need for Special Action:** Application for a new temporary experimental authorization to cover equipment demonstration and evaluation with a duration of operation of approximately 180 days or until grant of the application for equipment authorization is obtained.
- 3- **Type of operation to be conducted:** The Baron Services, Inc. ("Baron") XDD-300X is a Doppler weather radar used for the detection and display of precipitation targets. Baron intends to conduct demonstrations in response to requests of various television stations and other meteorological users. It transmits pulses of 0.4, 1.0 and 2.0 micro-seconds in duration. The maximum ERP from its antenna at the frequency range of 9100 to 9600 MHZ will be 129.77 dBm with a maximum R.F. output at the transmitter terminals of 300 kW. *OK'd by telon w/ applicant 6/23/98*
- 4- **Purpose of operation:** It is proposed to demonstrate the Baron Services, Inc. XDD-300X for evaluation at Huntsville, Alabama commencing July 1, 1998. *Dy*
- 5- **Time and date of proposed operation:** 180 days commencing July 1, 1998.
- 6- **Class of Station:** FX XD  
  
**Nature of Service:** Experimental
- 7- **Location of proposed operation:** The system will be tested at Baron Services home office located in Huntsville, Alabama and will comply with all notification requirements outlined in Section 5.65(b) of the FCC Rules.

8- **Equipment to be used:**

Equipment Model

Manufacturer

Magnetron Type SFD-349

Baron Services, Inc.

9- **Frequency Desired:** 9100 to 9600 MHZ

10- **Type of Emission:** 11M25P0N

*9.3-9.5 MHz OK'd by applicant in telcon  
of 6/23/98 Dy*

11- **Overall height of Antenna Structure:** Nine (9) feet. All antennas will either be sufficiently shielded by a building or existing tower so as to be exempt from notification to the FAA under section 17.14(b) of the Commission's Rules or will be installed on a building or tower so that its height does not exceed six meters above the existing structure. Baron will comply with all applicable sections of Part 17 of the Commission's Rules.

*OK by HFW 6/23/98  
Dy*