

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WB9XUT

(Call Sign)

0542-EX-ST-2004

(File Number)

NAME Curtiss Wright / Vista Controls

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Development of an Ultra-WideBand (UWB) radar system for the United States Air Force.

Station Locations

- (1) Littleton, MA, within 3 km of 30 Porter Road - NL 42-31-43; WL 71-30-51
- (2) Fort Devens, MA, within 3 km of coordinates - NL 42-32-42; WL 71-36-43
- (3) Fort Devens, MA, within 3 km of coordinates - NL 42-32-44; WL 71-36-46

Frequency Information

Littleton, MA, within 3 km of 30 Porter Road - NL 42-31-43; WL 71-30-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2154-3013 MHz	FX	859MP0N	2.68 W (ERP)	

This authorization effective October 06, 2004 and
will expire 3:00 A.M. EST April 04, 2005

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COMMISSION**



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2154-3013 MHz	FX	859MP0N	2.68 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Licensee must provide the following to the National Science foundation (NSF) on a weekly basis: 1) Expected schedule of operation during the upcoming week, including number of systems operating, power levels (EIRP), description of spectral signature of operating devices (i.e., broad-band across entire range per STA, or narrow band modes for experimentation, etc), antenna pointing azimuths, and antenna heights above ground. 2) Actual schedule of operation during the preceding week, including all of the technical information listed above. Dates and times of operation shall be accurately reflected in the log.
- (3) The schedules and logs should be communicated weekly to the NSF via email. The schedule and log files should be provided in Excel or Matlab format or a text/C.V. format that can be easily imported into Excel or Matlab. The NSF point of contact is Andrew Clegg, aclegg@nsf.gov.
- (4) The stop buzzer phone number given for this test is 978-502-4954. If this number changes, then licensee must notify NTIA.
- (5) Licensee should be aware that Airport Surveillance Radars operate in the 2700-3000 MHz band and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (6) Licensee must brief the Air Force SPS representative, Ronald Williams 703-428-1510, as to the test result with reference to if the system meets UWB Part 15 rules and addresses the discrepancies between the data for the Vista Controls and the Air Force Qupid system submitted to the SPS.