

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WE2XRZ

(Call Sign)

XC FX

(Class of Station)

0207-EX-PL-2008

(File Number)

NAME Marshall Communications Corporation

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(i) of the Commission's Rules

Station Locations

- (1) Hagerstown (FREDERICK), MD - NL 39-35-59; WL 77-45-31
- (2) Ashburn (LOUDOUN), VA - NL 39-03-38; WL 77-27-48
- (3) Herndon (FAIRFAX), VA - NL 38-58-10; WL 77-23-10
- (4) Suffolk, VA - NL 36-50-49; WL 76-17-07
- (5) Tampa, FL - NL 21-56-51; WL 82-27-30
- (6) St. Louis, IL - NL 38-33-12; WL 89-50-24
- (7) Camden, NJ - NL 39-55-33; WL 75-07-11

Frequency Information

Hagerstown (FREDERICK), MD - NL 39-35-59; WL 77-45-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.2-14.4 GHz	FX	4M00MXD	158 kW (ERP)	

This authorization effective August 12, 2008 and
will expire 3:00 A.M. EST November 01, 2008

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Ashburn (LOUDOUN), VA - NL 39-03-38; WL 77-27-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.2-14.4 GHz	FX	4M00MXD	158 kW (ERP)	

Herndon (FAIRFAX), VA - NL 38-58-10; WL 77-23-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.2-14.4 GHz	FX	4M00MXD	158 kW (ERP)	

Suffolk, VA - NL 36-50-49; WL 76-17-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.2-14.4 GHz	FX	4M00MXD	158 kW (ERP)	

Tampa, FL - NL 21-56-51; WL 82-27-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.2-14.4 GHz	FX	4M00MXD	158 kW (ERP)	

Frequency Information

St. Louis, IL - NL 38-33-12; WL 89-50-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.2-14.4 GHz	FX	4M00MXD	158 kW (ERP)	

Camden, NJ - NL 39-55-33; WL 75-07-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.2-14.4 GHz	FX	4M00MXD	158 kW (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) In accordance with Article 4.4 of the ITU Radio Regulations, the operations authorized herein shall not cause harmful interference to, and shall not claim protection from harmful interference caused by, a station operating in accordance with the provisions of the ITU Constitution, the ITU Convention, and the ITU Radio Regulations.
- (4) National Science Foundation (NSF) requests that licensee:
 - 1) Coordinate operation at the Taunton, MA site with the National Radio Astronomy Observatory's VLBA site at Hancock, NH. (POC Mr. Dan Mertely at Socorro, NM, Phone: 505- 835-7027 and e-mail: dmertely@nrao.edu).
 - 2) Coordinate operation at the Fredericksburg, VA site with Wes Sizemore at Green Bank. (Phone: 304-456-2107, e-mail:wsizemor@nrao.edu).
- (5) Licensee shall comply with the EIRP density criteria set forth in Part 25.222(a)(1) through (a)(4) of the FCC's rules.
- (6) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number HC1047-07-P-0406. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (7) Maximum EIRP density allowed is 14 dBW/4kHz.
- (8) POINTS OF COMMUNICATION: Amazonas-1.

