

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

EXPERIMENTAL

(Nature of Service)

WF2XMJ

(Call Sign)

XD MO

(Class of Station)

0343-EX-RR-2010

(File Number)

NAME Shared Spectrum Company

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) MOBILE: Vienna (FAIRFAX), VA, within 25 km, centered around NL 38-55-33; WL 77-14-45

Frequency Information

MOBILE: Vienna (FAIRFAX), VA, within 25 km, centered around NL 38-55-33; WL 77-14-45

| Frequency       | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 902-928 MHz     | MO            | 5M00D1D<br>4M00F1D<br>990KF1D<br>5M00F1D<br>990KD1D<br>4M00D1D | 1 W (ERP)        |                           |
| 2400-2483.5 MHz | MO            | 5M00D1D<br>4M00F1D<br>990KF1D<br>5M00F1D<br>990KD1D            | 1 W (ERP)        |                           |

This authorization effective February 16, 2011 and  
will expire 3:00 A.M. EST August 16, 2011

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Vienna (FAIRFAX), VA, within 25 km, centered around NL 38-55-33; WL 77-14-45

| Frequency       | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 2400-2483.5 MHz | MO            | 4M00D1D                                                        | 1 W (ERP)        |                           |
| 4400-4900 MHz   | MO            | 5M00D1D<br>4M00F1D<br>990KF1D<br>990KD1D<br>4M00D1D<br>5M00F1D | 1 W (ERP)        |                           |
| 5650-5925 MHz   | MO            | 5M00D1D<br>4M00F1D<br>990KF1D<br>5M00F1D<br>990KD1D<br>4M00D1D | 1.2 W (ERP)      |                           |

## Special Conditions:

- (1) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir @ sbe.org; information, www.sbe.org.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Air Force contract FA8750-07-C-0005. 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.
- (5) The designated point-of-contact to terminate transmissions if interference occurs is Mr. David G. Jones at (703) 599-3121 (Cell).

**Special Conditions:**

- (6) Operation is subject to prior coordination with Fixed Microwave licensees.
- (7) Operation is NOT permitted on the frequency band 1755 MHz to 1850 MHz.