

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

EXPERIMENTAL

(Nature of Service)

WF2XNI

(Call Sign)

XD      FX MO

(Class of Station)

0393-EX-PL-2010

(File Number)

NAME Dielectric Communications

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) Columbia (RICHLAND), SC - NL 34-07-07; WL 80-56-13; MOBILE: Columbia (RICHLAND), SC, within 40 km, centered around NL 34-07-07; WL 80-56-13

Frequency Information

Columbia (RICHLAND), SC - NL 34-07-07; WL 80-56-13; MOBILE: Columbia (RICHLAND), SC, within 40 km, centered around

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 824-849 MHz   | MO            | 5M00F9W             | 250 mW (ERP)     |                           |
| 869-894 MHz   | FX            | 5M00F9W             | 500 W (ERP)      |                           |
| 1920-1980 MHz | MO            | 5M00F9W             | 250 mW (ERP)     |                           |
| 2110-2170 MHz | FX            | 5M00F9W             | 1585 W (ERP)     |                           |

This authorization effective August 17, 2010 and  
will expire 3:00 A.M. EST November 17, 2011

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



**Special Conditions:**

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) Licensee should secure consent from Advance Wireless Services licensees prior to utilizing the 2110-2170 MHz and 1920-1980 MHz bands.
- (5) Operation is subject to prior coordination with Fixed Microwave licensees prior to utilizing the 2110-2170 MHz and 1920-1980 MHz bands.
- (6) This license SUPERSEDES the previously issued license with the same call sign and file number: A condition is added.