

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

EXPERIMENTAL

(Nature of Service)

XC      FX

(Class of Station)

WD2XGC

(Call Sign)

0087-EX-RR-2013

(File Number)

NAME University of Massachusetts

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(b) of the Commission's Rules

Station Locations

(1) Amherst (HAMPSHIRE), MA - NL 42-23-51; WL 72-30-40

Frequency Information

Amherst (HAMPSHIRE), MA - NL 42-23-51; WL 72-30-40

| Frequency      | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|---------------------|------------------|---------------------------|
| 910-920 MHz    | FX            | 10M0P0N             | 800 kW (ERP)     |                           |
| 2900-3100 MHz  | FX            | 60M0F1N             | 500 kW (ERP)     |                           |
| 9200-10000 MHz | FX            | 5M00Q1N             | 1 MW (ERP)       |                           |
| 9380-9440 MHz  | FX            | 2M00P0N             | 125 MW (ERP)     |                           |

This authorization effective December 01, 2012 and  
will expire 3:00 A.M. EST December 01, 2014

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



**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 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) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by NSF Contract No. 0313747. 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.
- (4) Operation in the 9000-9200 MHz band is not permitted.