

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

EXPERIMENTAL
(Nature of Service)

WF2XGE
(Call Sign)

XR FX
(Class of Station)

0372-EX-PL-2009
(File Number)

NAME University of Tennessee Space Institute

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) Tullahoma, TN - NL 35-22-35; WL 87-45-32

Frequency Information

Tullahoma, TN - NL 35-22-35; WL 87-45-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1575.42 MHz	FX	20M4W7D	25 pW (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 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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.

This authorization effective February 19, 2010 and
will expire 3:00 A.M. EST February 19, 2012

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by NASA and NOAA contracts number (NNM09AB71P) and (NA09OAR4600160). 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) There is several designated point-of-contact to terminate transmissions if interference occurs: Mr. Greg Heatherly at (931) 607-7637, or Mr. Shane Porter at (615) 347-0641, or Mr. John Muratore at (832) 387-0788 or Dr. Stephen Corda at (661) 331-2664.
- (6) Operation is limited to activity for the purpose of testing radionavigation satellite service (RNSS) equipment and systems.
- (7) The test equipment shall only be used indoors and shall be under the control of University of Tennessee Space Institute.
- (8) University of Tennessee Space Institute shall post signs on doors to the test area notifying that, "GPS re-radiator is in use and the GPS information you receive may be in error."
- (9) GPS users in the area of potential interference to GPS reception must be notified that GPS information may be impacted for periods of time.
- (10) EIRP is no greater than -140 dbm/24 MHz at 100 feet.