

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

EXPERIMENTAL

(Nature of Service)

WE2XKV

(Call Sign)

XR FX MO

(Class of Station)

0334-EX-RR-2012

(File Number)

NAME Center for Severe Weather Research

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(ic) of the Commission's Rules

Station Locations

- (1) MOBILE: Nationwide
- (2) MOBILE: Within the states of WY, CO, NM, ND, SD, NE, KS, OK, TX, MN, IA, WI MO, AR, LA, MS, AL, FL, GA, SC, NC
- (3) Boulder (BOULDER), CO; MOBILE: Tornado and Hurricane Research Areas: MT, WY, CO, NM, ND, SD, NE, KS, OK, TX, MN, IA, MO, AR, LA, MS, AL, FL, GA, SC, NC
- (4) MOBILE: CO, WY, MT, ND, SD, NE, KS, OK, NM, TX, AR, MO, IA, MN, LA, MS, AL, GA, FL, NC, SC

Frequency Information

MOBILE: Nationwide

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
151.7 MHz	MO	10K0H1W	100 W (ERP)	
151.76 MHz	MO	10K0H1W	100 W (ERP)	
151.82 MHz	MO	10K0H1W	100 W (ERP)	

This authorization effective December 01, 2012 and
will expire 3:00 A.M. EST December 01, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Nationwide

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
151.94 MHz	MO	10K0H1W	100 W (ERP)	
163.1 MHz	MO	10K0H1W	100 W (ERP)	

MOBILE: Within the states of WY, CO,NM, ND, SD, NE, KS, OK, TX, MN, IA, WI MO, AR, LA, MS, AL, FL, GA, SC, NC

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
151.7 MHz	MO	10K0H1W	50 W (ERP)	
151.76 MHz	MO	10K0H1W	50 W (ERP)	
151.82 MHz	MO	10K0H1W	50 W (ERP)	
151.94 MHz	MO	10K0H1W	50 W (ERP)	
163.1 MHz	MO	10K0H1W	50 W (ERP)	

Boulder (BOULDER), CO; MOBILE: Tornado and Hurricane Research Areas: MT, WY, CO, NM, ND, SD, NE, KS, OK, TX, N

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451 MHz	MO	N0NH1W	100 W (ERP)	0.1 %

Frequency Information

Boulder (BOULDER), CO; MOBILE: Tornado and Hurricane Research Areas: MT, WY, CO, NM, ND, SD, NE, KS, OK, TX, M

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451 MHz	MO	N0NH1W	100 W (ERP)	0.1 %
452 MHz	MO	N0NH1W	100 W (ERP)	0.1 %
458 MHz	MO	N0NH1W	100 W (ERP)	0.1 %

MOBILE: CO, WY, MT, ND, SD, NE, KS, OK, NM, TX, AR, MO, IA, MN, LA, MS, AL, GA, FL, NC, SC

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
157.45-161.575 MHz	MO	11K0F3E	100 W (ERP)	0.1 %
173.2-173.4 MHz	MO	11K0F3E	100 W (ERP)	0.1 %

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 National Science Foundation contract numbers NSF-ATM-0724381 and other scientific activities. 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) Licensee is to be careful to use only those frequencies set forth above that are the best suitable in each given area.

Special Conditions:

- (5) Operation on 163.1 MHz within 15 miles of Houston, TX must be coordinated with Ms. Cathy Sham at 281-483-0124.
- (6) No operation is allowed for using the frequency band 163.7125 MHz.
- (7) Operation in the bands 163.1 MHz 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
- (8) Operation is used for weather experiment only.
- (9) Licensee shall select operating frequencies in the bands 157.45-161.575 MHz and 173.2-173.4 MHz to avoid interfering with existing users.