

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WB2XID

(Call Sign)

0047-EX-RR-2003

(File Number)

NAME Regents of the University of Michigan, Dept. of Atmospheric, Oceanic, & Space Science

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) Moss Landing (SANTA CRUZ), CA - NL 36-48-01; WL 121-47-21

Frequency Information

Moss Landing (SANTA CRUZ), CA - NL 36-48-01; WL 121-47-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2130 KHZ	FX	50K0P0N	300 W (ERP)	
2230 KHZ	FX	50K0P0N	300 W (ERP)	
2430 KHZ	FX	50K0P0N	300 W (ERP)	
2650 KHZ	FX	50K0P0N	300 W (ERP)	
2680 KHZ	FX	50K0P0N	300 W (ERP)	
2840 KHZ	FX	50K0P0N	300 W (ERP)	
4800 KHZ	FX	50K0P0N	300 W (ERP)	
4830 KHZ	FX	50K0P0N	300 W (ERP)	
6780 KHZ	FX	50K0P0N	300 W (ERP)	
7380 KHZ	FX	50K0P0N	300 W (ERP)	
7820 KHZ	FX	50K0P0N	300 W (ERP)	
9150 KHZ	FX	50K0P0N	300 W (ERP)	
9180 KHZ	FX	50K0P0N	300 W (ERP)	
10150 KHZ	FX	50K0P0N	300 W (ERP)	
10180 KHZ	FX	50K0P0N	300 W (ERP)	
12050-12230 KHZ	FX	50K0P0N	300 W (ERP)	

This authorization effective May 01, 2003 and
will expire 3:00 A.M. EST May 01, 2006

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Moss Landing (SANTA CRUZ), CA - NL 36-48-01; WL 121-47-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13380 KHZ	FX	50K0P0N	300 W (ERP)	
13440-13600 KHZ	FX	500P0N	300 W (ERP)	
13800-14000 KHZ	FX	50K0P0N	300 W (ERP)	
14560 KHZ	FX	50K0P0N	300 W (ERP)	
14590 KHZ	FX	50K0P0N	300 W (ERP)	
16590 KHZ	FX	50K0P0N	300 W (ERP)	
16620 KHZ	FX	50K0P0N	300 W (ERP)	
21770 KHZ	FX	50K0P0N	300 W (ERP)	
21800 KHZ	FX	50K0P0N	300 W (ERP)	
22800 KHZ	FX	50K0P0N	300 W (ERP)	
25230 KHZ	FX	50K0P0N	300 W (ERP)	
25260 KHZ	FX	50K0P0N	300 W (ERP)	
27600 KHZ	FX	50K0P0N	300 W (ERP)	
27630 KHZ	FX	50K0P0N	300 W (ERP)	
27660 KHZ	FX	50K0P0N	300 W (ERP)	
29720 KHZ	FX	50K0P0N	300 W (ERP)	
29750 KHZ	FX	50K0P0N	300 W (ERP)	
29780 KHZ	FX	50K0P0N	300 W (ERP)	
30600 KHZ	FX	50K0P0N	300 W (ERP)	
30630 KHZ	FX	50K0P0N	300 W (ERP)	
30660 KHZ	FX	50K0P0N	300 W (ERP)	
31900 KHZ	FX	50K0P0N	300 W (ERP)	
31930 KHZ	FX	50K0P0N	300 W (ERP)	
31960 KHZ	FX	50K0P0N	300 W (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by ONR Grant N000-97-1-0375. 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.