

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WD2XUM

(Call Sign)

0098-EX-PL-2009

(File Number)

NAME Hatfield & Dawson Consulting Engineers

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) El Centro NAF (IMPERIAL), CA - NL 32-53-24; WL 115-47-14

Frequency Information

El Centro NAF (IMPERIAL), CA - NL 32-53-24; WL 115-47-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
530 kHz	FX	10K0A3N	5 kW (Output Power)	0.000075 %
530 kHz	FX	100HN0N 10K0A3N	0.25 kW (Output Power)	0.000075 %
890 kHz	FX	10K0A3N	10 kW (Output Power)	0.000075 %
890 kHz	FX	100HN0N 10K0A3N	1 kW (Output Power)	0.000075 %

This authorization effective July 06, 2009 and
will expire 3:00 A.M. EST July 01, 2011

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

El Centro NAF (IMPERIAL), CA - NL 32-53-24; WL 115-47-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1680 kHz	FX	10K0A3N	10 kW (Output Power)	0.000075 %
1680 kHz	FX	100HN0N 10K0A3N	1 kW (Output Power)	0.000075 %

Special Conditions:

- (1) Operation 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.
- (2) Subject to prior coordination with FAA Western Regional Office, P.O. Box 92007, Worldway Center, Los Angeles, California 90009, Attn: Frequency Management Office. Phone 310-297-1872.
- (3) 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.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) All operations subject to prior coordination at least seven days in advance of transmissions with Area Frequency Coordinator Pacific Missile Range, Point Mugu, California: (805) 989-7983 and the coordinator at China Lake: (760) 939-6948.
- (6) Licensee is permitted to transmit at an output power of 5 kW on 530 kHz between midnight and dawn provided that: 1) Steven Lockwood, cell phone (206) 399-9440, be at the testing and be able to turn off the equipment at FAA request; and 2) licensee notify the FAA 72 hours in advance of testing date, times and Stop Buzzer contact information. Applicant will email: Victor.Hinton@FAA.gov (202) 267-7532 and 7-AWA-ASR100-NOCC@FAA.gov.
- (7) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by Space and Naval Warfare (SPAWAR) Systems Center Pacific 55210 purchase order no. 22209. 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.

Special Conditions:

- (8) Prior to conducting tests on 890 kHz, licensee shall coordinate with Stations WLS, Chicago, IL; KDXU, ST. George, UT; KLFF, Arroyo Grande, CA; and KDJQ, Meridian, ID. Licensee shall provide each station with a contact name and telephone number to be used for reporting interference. If interference complaints are received, licensee shall immediately reduce power sufficiently to eliminate the interference or cease test operations.
- (9) Prior to conducting tests on 1680 kHz, licensee shall coordinate with Stations KAVT, Fresno, CA; KHPY, Moreno Valley, CA; KTFH, Seattle, WA; and KRJO, Monroe, LA. Licensee shall provide each station with a contact name and telephone number to be used for reporting interference. If interference complaints are received, licensee shall immediately reduce power sufficiently to eliminate the interference or cease test operations.
- (10) Frequency 890 kHz with the power of 1 kW and 10 KW and the frequency 530 kHz with power of 5 KW are to be tested only at night to avoid interference with Federal TIS users on these frequencies.