

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WE9XBE

(Call Sign)

XD FX MO

(Class of Station)

0450-EX-ST-2009

(File Number)

NAME Dielectric Communications

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

To perform measurements to determine the power density received at a base station antenna from a mobile device at different distances and azimuth from the tower.

Station Locations

- (1) Gray (CUMBERLAND), ME - NL 43-51-06; WL 70-19-37; MOBILE: Gray (CUMERLAND), ME, within 45 km, centered around NL 43-51-06; WL 70-19-37

Frequency Information

Gray (CUMBERLAND), ME - NL 43-51-06; WL 70-19-37; MOBILE: Gray (CUMERLAND), ME, within 45 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
820-925 MHz	MO	500HF7W	1 W (ERP)	1.0E-6 %
935-940 MHz	FX	500HF7W	100 kW (ERP)	1.0E-6 %
957-959 MHz	FX	500HF7W	100 kW (ERP)	1.0E-6 %

This authorization effective October 16, 2009 and
will expire 3:00 A.M. EST February 14, 2010

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Gray (CUMBERLAND), ME - NL 43-51-06; WL 70-19-37; MOBILE: Gray (CUMERLAND), ME, within 45 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710.2-1784.8 MHz	MO	200KF7W	1 W (ERP)	1.0E-7 %
1805.2-1879.8 MHz	FX	200KF7W	40 kW (ERP)	1.0E-7 %
1920-1980 MHz	MO	1M20F7W	1 W (ERP)	1.0E-6 %
2110-2170 MHz	FX	1M20F7W	20 kW (ERP)	1.0E-6 %

Special Conditions:

- (1) This authorization does not include use of the 1910-1930 MHz band which has been designated for unlicensed PCS.
- (2) Any operation in the 1850-1990 and 2130-2200 MHz band must be coordinated with the existing and future users to avoid interference. Emission types may vary under the experiment.
- (3) 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.
- (4) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (5) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (6) Operation is subject to prior coordination with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (7) 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.
- (8) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (9) Stop Buzzers are Andre Skalina: (202) 838-1093, Jens Ostergaard: (207) 321-1434 and Chris Rossiter: (207) 329-6251. They are the people that can cease transmissions immediately at any given time should interference occur.
- (10) Operation is subject to prior coordination with Fixed Microwave licensees.

Special Conditions:

- (11) Licensee should get consent from existing and future Advance Wireless Services licensees.