

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WD9XJW

(Call Sign)

0314-EX-ST-2008

(File Number)

NAME 3M Company

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:

The basic goal of the program is the development of an RFID system that provide longer range, more robust reads of RFID tagged objects than attainable with commercial RFID equipment.

Station Locations

(1) Cottage Grove (WASHINGTON), MN - NL 44-47-24; WL 92-54-36

Frequency Information

Cottage Grove (WASHINGTON), MN - NL 44-47-24; WL 92-54-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
430-460 MHz	FX	500KK1D	794 W (ERP)	
902-928 MHz	FX	500KK1D	2.5 kW (ERP)	
2.4-2.5 GHz	FX	500KK1D	12.5 kW (ERP)	

This authorization effective July 01, 2008 and
will expire 3:00 A.M. EST January 02, 2009

**FEDERAL
COMMUNICATIONS
COMMISSION**



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) 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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) NTIA is concerned that the power levels indicated will cause interference in the future if/when the RFID equipment is deployed. If equipment is produced with these powers in the bands indicated, individual site licenses will be necessary.
- (5) Use of directional antennas to focus the power in a narrow desired direction will be needed if the equipment is to operate in the bands requested at the power indicated.
- (6) Licensee should be aware that the band 450-460 MHz is an FCC fixed/land mobile band and the band 430-450 MHz is a government military radiolocation band with many users. In the band 2400-2500 MHz, the government has only radiolocation is on a secondary basis to FCC users and may not cause interference to those users and satellite operations. If any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (7) Operation is subject to prior coordination with affected existing and future Microwave licensees within 160 km.