

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

EXPERIMENTAL

(Nature of Service)

WD9XEE

(Call Sign)

XT FX MO

(Class of Station)

0048-EX-ST-2009

(File Number)

NAME Goodrich Corporation, ISR Systems

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:

Demonstration and verification of the free-space operating capability of a configuration of microwave RF equipment comprising a wide-band air-to-ground data link.

Station Locations

- (1) Chelmsford (MIDDLESEX), MA - NL 42-35-30; WL 71-19-17
- (2) MOBILE: Chelmsford, MA, within 0.02 km, centered around NL 42-35-30; WL 71-19-17
- (3) Chelmsford (MIDDLESEX), MA - NL 42-35-30; WL 71-19-17
- (4) Chelmsford (MIDDLESEX), MA - NL 42-35-31; WL 71-19-17
- (5) MOBILE: Chelmsford, MA, within 0.05 km, centered around NL 42-35-31; WL 71-19-17
- (6) Chelmsford (MIDDLESEX), MA - NL 42-35-31; WL 71-19-21

Frequency Information

Chelmsford (MIDDLESEX), MA - NL 42-35-30; WL 71-19-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.825 GHz	FX	21M4G1D	122 mW (ERP)	0.14 %

This authorization effective March 01, 2009 and
will expire 3:00 A.M. EST April 01, 2009

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Chelmsford, MA, within 0.02 km, centered around NL 42-35-30; WL 71-19-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.825 GHz	MO	21M4G1D	8.4 mW (ERP)	0.14 %

Chelmsford (MIDDLESEX), MA - NL 42-35-30; WL 71-19-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.15-15.35 GHz	FX	64M0G1D	870 mW (ERP)	0.7 %

Chelmsford (MIDDLESEX), MA - NL 42-35-31; WL 71-19-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.825 GHz	FX	21M4G1D	12.2 W (ERP)	0.14 %

MOBILE: Chelmsford, MA, within 0.05 km, centered around NL 42-35-31; WL 71-19-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.825 GHz	MO	21M4G1D	840 mW (ERP)	0.14 %

Frequency Information

Chelmsford (MIDDLESEX), MA - NL 42-35-31; WL 71-19-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.15-15.35 GHz	FX	64M0G1D	87 W (ERP)	0.7 %

Special Conditions:

- (1) Goodrich Corporation, ISR Systems should note that this band is allocated for Federal use.
- (2) Goodrich Corporation, ISR Systems should be aware that the final design should use directional antennas using tracking in this band.