William J. Abrams, 5 Omni Way, Chelmsford, MA 01824-4142,

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION

EXPERIMENTAL	WD9XEE
(Nature of Service)	(Call Sign)
XT FX MO	0318-EX-ST-2007
(Class of Station)	(File Number)

NAME Goodrich Corporation, Surveillance & Reconnaissance 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 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 (+/-)
14.405-14.825 GHz	FX		120 mW (ERP)	
		137MG1D		
		147MG1D		
		274MG1D		
		295MG1D		

This authorization effective February 14, 2008 and will expire 3:00 A.M. EST March 05, 2008

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 (+/-)
14.405-14.825 GHz	MO		7 mW (ERP)	
		137MG1D		
		147MG1D		
		274MG1D		
		295MG1D		

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		380 mW (ERP)	
		64M0G1D		

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.405-14.825 GHz	FX		12.2 W (ERP)	
		137MG1D		
		147MG1D		
		274MG1D		
		295MG1D		

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 (+/-)
14.405-14.825 GHz	MO		670 mW (ERP)	
		137MG1D		
		147MG1D		
		274MG1D		

Frequency Information

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 (+/-)
14.405-14.825 GHz	MO	295MG1D	670 mW (ERP)	

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	37.9 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) No airborne testing is allowed.

(3) The band 14.47 - 14.5 GHz shall be notched out to protect highly sensitive radio astronomy observations at Hancock, NH.

(4) The frequencies 14551.25 MHZ and 14661.25 MHZ +/- 28 MHZ shall be notched out to protect fixed microwave sites in the Boston area.

(5) User should be aware that the final design should use directional antennas using tracking in this band.