

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

EXPERIMENTAL

(Nature of Service)

WF9XYO

(Call Sign)

XT MO

(Class of Station)

0714-EX-ST-2012

(File Number)

NAME BAE Systems Information and Electronic Systems Integration Inc.

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:

It will involve a communication link between a manned aircraft flying around a test centerpoint and a fixed ground location. The communication link will be used for data transmission.

Station Locations

- (1) MOBILE: Temporary Fixed Locations (Ground), Litchfield, NH, within 0.45 km, centered around NL 42-48-22; WL 71-25-33
- (2) MOBILE: Temporary Fixed Locations (Ground), Merrimack, NH, within 0.5 km, centered around NL 42-48-39; WL 71-29-18
- (3) MOBILE: Airborne Operations, Litchfield, NH, within 12 km, centered around NL 42-48-22; WL 71-25-33
- (4) MOBILE: Airborne Operations, Merrimack, NH, within 12 km, centered around NL 42-48-39; WL 71-29-18

Frequency Information

MOBILE: Temporary Fixed Locations (Ground), Litchfield, NH, within 0.45 km, centered around NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	18M5F9W 2M40G1D 4M79G1D	77 W (ERP)	

This authorization effective October 08, 2012 and
will expire 3:00 A.M. EST April 09, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Temporary Fixed Locations (Ground), Litchfield, NH, within 0.45 km, centered around NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	9M58G1D	77 W (ERP)	
1760-1840 MHz	MO	18M5F9W 2M40G1D 4M79G1D 9M58G1D	77 W (ERP)	

MOBILE: Temporary Fixed Locations (Ground), Merrimack, NH, within 0.5 km, centered around NL 42-48-39; WL 71-29-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	18M5F9W 2M40G1D 4M79G1D 9M58G1D	77 W (ERP)	
1760-1840 MHz	MO	18M5F9W 2M40G1D 4M79G1D 9M58G1D	77 W (ERP)	

MOBILE: Airborne Operations, Litchfield, NH, within 12 km, centered around NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2365-2395 MHz	MO	18M5F9W 2M40G1D 4M79G1D	4 W (ERP)	

Frequency Information

MOBILE: Airborne Operations, Litchfield, NH, within 12 km, centered around NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2365-2395 MHz	MO	9M58G1D	4 W (ERP)	

MOBILE: Airborne Operations, Merrimack, NH, within 12 km, centered around NL 42-48-39; WL 71-29-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2365-2395 MHz	MO	18M5F9W 2M40G1D 4M79G1D 9M58G1D	4 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) 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) Operation is NOT PERMITTED using the frequency band 2395-2445 MHz.
- (4) Licensee must take steps to protect distress and safety operations the frequency band 1626-1660 MHz as described in Sections 80.377 and 87.187(q).
- (5) Use of the band 1760-1840 MHz is under serious consideration for transfer to the FCC for use by 4G phones and other users in the next 10 years. Any equipment developed in this band should be for foreign use and not for use within the USA.
- (6) The designated point-of-contact to terminate the systems if having interference occurs is Peter Simonson (603) 718-4750, Glen Franks (781) 879-2275 or BAE Systems Emergency Services Center (603) 885-3842
- (7) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to authorization with the Area Frequency Coordinator (AFC), who also coordinated it, as appropriate, with Aerospace and Flight Test Radio coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the AFC, as necessary to ensure compatibility with existing uses.