

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WG2XOJ

(Call Sign)

XT MO

(Class of Station)

0149-EX-PL-2013

(File Number)

NAME BAE Systems Information and Electronic Systems Integration Inc.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(i) of the Commission's Rules

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, Flight 5000 FT AGL, Litchfield, NH, within 12 km, centered around NL 42-48-22; WL 71-25-33
- (4) MOBILE: Airborne Operations, Flight 5000 FT AGL, 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 (+/-)
1626.50000000-1660.50000000 MHz	MO		77.000000 W (ERP)	
		18M5F9W		
		2M40G1D		
		4M79G1D		
		9M58G1D		
1760.00000000-1840.00000000 MHz	MO		77.000000 W (ERP)	
		18M5F9W		
		2M40G1D		

This authorization effective April 25, 2013 and
will expire 3:00 A.M. EST May 01, 2015

**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 (+/-)
1760.00000000-1840.00000000 MHz	MO	4M79G1D 9M58G1D	77.000000 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 (+/-)
1626.50000000-1660.50000000 MHz	MO	18M5F9W 2M40G1D 4M79G1D 9M58G1D	77.000000 W (ERP)	

1760.00000000-1840.00000000 MHz	MO	18M5F9W 2M40G1D 4M79G1D 9M58G1D	77.000000 W (ERP)	
---------------------------------	----	--	-------------------	--

MOBILE: Airborne Operations, Flight 5000 FT AGL, Litchfield, NH, within 12 km, centered around NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2365.00000000-2395.00000000 MHz	MO	18M5F9W 2M40G1D 4M79G1D 9M58G1D	4.000000 W (ERP)	

Frequency Information

MOBILE: Airborne Operations, Flight 5000 FT AGL, Merrimack, NH, within 12 km, centered around NL 42-48-39; WL 71-29-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2365.00000000-2395.00000000 MHz	MO		4.000000 W (ERP)	
		18M5F9W		
		2M40G1D		
		4M79G1D		
		9M58G1D		

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) 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).
- (4) 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.
- (5) 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
- (6) 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.