

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

EXPERIMENTAL

(Nature of Service)

WK9XBR

(Call Sign)

XT MO

(Class of Station)

0930-EX-ST-2016

(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:

BAE Systems manufactures and tests RF systems as well as antennas for DOD as well as other governmental customers.

Station Locations

- (1) MOBILE: Temporary Fixed Operations, Litchfield, NH, within 0.5 km, centered around NL 42-48-22; WL 71-25-33

Frequency Information

MOBILE: Temporary Fixed Operations, Litchfield, NH, within 0.5 km, centered around NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
700-778 MHz	MO	NON	1 W (ERP)	
778-960 MHz	MO	NON	1 W (ERP)	
1450-1460 MHz	MO	NON	1 W (ERP)	

This authorization effective July 31, 2016 and
will expire 3:00 A.M. EST February 01, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Temporary Fixed Operations, Litchfield, NH, within 0.5 km, centered around NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1496-1510 MHz	MO	N0N	1 W (ERP)	
1525-1555 MHz	MO	N0N	1 W (ERP)	
1630-1660 MHz	MO	N0N	1 W (ERP)	
1710-1785 MHz	MO	N0N	1 W (ERP)	
1807-1910 MHz	MO	N0N	1 W (ERP)	
1920-1990 MHz	MO	N0N	1 W (ERP)	
2110-2170 MHz	MO	N0N	1 W (ERP)	
2305-2360 MHz	MO	N0N	1 W (ERP)	
2401-2495 MHz	MO	N0N	1 W (ERP)	
2500-2570 MHz	MO	N0N	1 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed Operations, Litchfield, NH, within 0.5 km, centered around NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2620-2690 MHz	MO	N0N	1 W (ERP)	
5180-5320 MHz	MO	N0N	1 W (ERP)	
5500-5925 MHz	MO	N0N	1 W (ERP)	

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Applicant agrees that project limited to testing, experimentation or trial and may not involve live-duty operations by first responders or others to protect life, property, or safety.
- (4) Applicant agrees that any press release to be issued regarding the STA, surrounding demonstration, or use of Band 14 spectrum relating to the STA must be coordinated with and receive written signoff from FirstNet prior to release (POCs: ryan.oremland@firstnet.gov and justin.shore@firstnet.gov).
- (5) Applicant certifies that the Governor-appointed FirstNet Single Point of Contact within the proposed STA location has been notified of STA application (contact information available at www.firstnet.gov/consultation).
- (6) Applicant must accept interference from any other user of Band 14 and must coordinate operation with other authorized Band 14 STAs/ELs. Failure to effectively coordinate shall result in immediate suspension of STA until such time, as determined by FirstNet, that project may continue.
- (7) Applicant must not cause interference to FirstNet operations or those approved to operate in Band 14 per license (i.e. SMLA licensees/current incumbents). Failure to effectively coordinate shall result in immediate suspension of STA until such time, as determined by FirstNet, that project may continue.
- (8) Applicant certifies that it has verified with reasonable supporting detail no current potential for interference with FirstNet operations or those approved to operate in Band 14 per STA/EL or license (i.e. SMLA licensees/current incumbents).

Special Conditions:

- (9) Point of contact is established and sent to FirstNet upon STA approval with "kill switch" authority; Applicant agrees to immediately cease operations at request of FirstNet upon receipt (in any form and for any reason) of request to kill switch POC until such time, as determined by FirstNet, that project may continue.
- (10) Operation must obtain consents from the Advanced Wireless Service licensees prior to accessing to 1710-1785 MHz and 2110-2170 MHz bands.
- (11) Operation must obtain consents from the Educational Broadband Service and Broadband Radio Service licensees prior to accessing to 2500-2570 MHz and 2620-2690 MHz bands.
- (12) The applicant must coordinate with the local Society of Broadband Engineer frequency coordinator and the affected Fixed Microwave Service licensees prior to operation in 778-960 MHz and 2401-2495 MHz bands.
- (13) Operation the band 2320-2345 MHz must obtain consent of Sirius XM Radio to your proposed operation.
- (14) In order to protect FAA operations in the area, BAE must notch the band 5600-5650 MHz.
- (15) Department of Transportation requests that in the band 1525-1555 MHz, BAE reduce the output power to the minimum required to conduct the test. Increased power levels may cause issues with GPS units in the area.
- (16) The designated point-of-contacts to terminate transmissions if interference occurs is:
Mr. Richard Ball - (603) 318-6913
Mr. Sean Hallinan - (603) 361-5959
BAE Systems Emergency Services Center - (603) 885-3842
- (17) 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 the 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.
- (18) Operations in the frequency bands 2305-2320 MHz and 2345-2360 MHz must comply with the emission limits set in 47 C.F.R. § 27.53(a) applicable to those bands.