

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WE2XBT

(Call Sign)

0439-EX-CR-2017

(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(b) of the Commission's Rules

Station Locations

(1) LITCHFIELD (HILLSBOROUGH), NH - NL 42-48-22; WL 71-25-33

Frequency Information

LITCHFIELD (HILLSBOROUGH), NH - NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15-29.9 MHz	FX	N0N	0.007 W (ERP)	
30.2-74.6 MHz	FX	N0N	0.007 W (ERP)	
75.2-106.4 MHz	FX	N0N	0.007 W (ERP)	
108.5-117.975 MHz	FX	N0N	0.007 W (ERP)	

This authorization effective December 31, 2017 and
will expire 3:00 A.M. EST January 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

LITCHFIELD (HILLSBOROUGH), NH - NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
122.675 MHz	FX	N0N	0.007 W (ERP)	
126.2 MHz	FX	N0N	0.007 W (ERP)	
128.825-129.2 MHz	FX	N0N	0.007 W (ERP)	
129.5-132 MHz	FX	N0N	0.007 W (ERP)	
134.1 MHz	FX	N0N	0.007 W (ERP)	
135.075 MHz	FX	N0N	0.007 W (ERP)	
137.6-152 MHz	FX	N0N	0.007 W (ERP)	
154.4-155.7 MHz	FX	N0N	0.007 W (ERP)	
159.2-161.6 MHz	FX	N0N	0.007 W (ERP)	
164-173.6 MHz	FX	N0N	0.007 W (ERP)	

Frequency Information

LITCHFIELD (HILLSBOROUGH), NH - NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
456.6-468.8 MHz	FX	N0N	0.007 W (ERP)	
509.7-608 MHz	FX	N0N	0.007 W (ERP)	
810.6-922.7 MHz	FX	N0N	0.007 W (ERP)	
934.5 MHz	FX	N0N	0.007 W (ERP)	
940.4-1200 MHz	FX	N0N	0.007 W (ERP)	

Special Conditions:

- (1) Operation is subject to prior coordination with the Associated Public Safety Communications Officers, Inc. (APCO); ATTN: Director of Frequency Coordination; 351 North Williamson Blvd.; Daytona Beach, FL 32114-1112; Telephone: (386) 322-2500.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir @ sbe.org; information, www.sbe.org.
- (5) "Stop Buzzer" Mr. Sean Hallinan at (603) 361-5959 and BAE Systems Emergency Services Center at (603) 885-3842 shall be available during testing to cease operations in the event of any interference.
- (6) Authorized Power ERP shall not exceed 0.007 Watts.
- (7) No transmissions within +/-3 KHz of the following frequencies (all in KHz): 15849.6, 15852.4, 16346.4, 16349.4, 19408.6, 19411.4, 20853.5.

Special Conditions:

- (8) No transmissions within +/-1 MHz of the following frequencies (962, 984, 989, 992, 1004, 1055, 1079, 1114, 1134, 1135, 1156, 1159, 1161, 1163, 1170, 1178, 1181, 1190, 1196, 1199). Exception of 978 MHz, 1030 MHz AND 1090 MHz. Within +/-10 MHz of 1030 and 1090 MHz signal levels cannot exceed -78 dBm above 500 ft in altitude (all in MHz) and within +/- 2 MHz of 978 MHz.
- (9) The applicant agrees to accept and implement any future modifications to their operation as directed by the FAA to include ceasing operations, or adding additional frequency restrictions so that future FAA operational requirements can be supported.
- (10) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Air Force and Navy, contract number FA8620-11-G-4029, FA8600-13-C-9503, FA8002-12-G-542 and N00019-15-C-0038. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (11) No transmission within +/-25 kHz of the following frequencies (all in MHz) 109.1, 109.7, 109.95, 111.7, 112.7, 112.9, 113.6, 114.4, 115.6, 116.2, 116.5, 117.1, 117.4 and 118.025.
- (12) BAE Systems shall notify the local cellular licensees operating in the 824-849 and 869-896 MHz bands of the dates and times of testing and provide them with a Point-of-Contact who can cease transmissions immediately if interference occurs.
- (13) Operation is NOT PERMITTED using the following frequencies: 19.99-20.01 MHz, 24.99-25.01 MHz, 176-226.5 MHz, 228.8-328.6 MHz and 336.8-452 MHz.
- (14) Assignment in frequency bands 15-29.9, 108.5-118.4, 129.5-135.2, 164-173.6 and 940.4-1200 MHz was coordinated prior to authorization with the FAA New England Coordinator, Burlington, MA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA New England Coordinator, Burlington, MA, as necessary to ensure compatibility with existing uses.
- (15) No transmissions within +/-25 KHz of the following frequencies (all in MHz): 125.825, 125.925, 126, 126.5, 126.75, 127.2, 127.35, 127.825, 132.05, 133.925, 135, 169.3, 169.325, 169.35, 172.9, 172.9125, 172.925, 172.95.
- (16) Military Association Group denied to process 176-226.5 MHz, 228.8-328.6 MHz and 336.8-452 MHz for second time. BAE needs to contact with William R Whittington (MAG chairman) for requesting these frequency bands.
- (17) Operation the frequency band 128.8125-129.2 MHz is subject to prior coordinate with Aviation Spectrum Resources, Inc.
- (18) Operation is subject to prior coordination with FAA Northwest Regional Office, 1601 LIND AVENUE, S.W. RENTON, WASHINGTON 98055 PH 206-227-2464

Special Conditions:

(19) The following frequencies must notch out

108.7 MHz (+/- 50 kHz)

109.4 MHz (+/- 50 kHz)

110.6 MHz (+/- 50 kHz)

112.5 MHz (+/- 50 kHz)

114.7 MHz (+/- 50 kHz)

110 MHz (+/- 25 kHz)

111.6 MHz (+/- 25 kHz)

(20) This authorization SUPERSEDES the previous issued authorization with the same call sign and file number: amend FAA conditions.