

**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)

0023-EX-CR-2021

(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)	
108.85-117.975 MHz	FX	N0N	0.007 W (ERP)	

This authorization effective February 28, 2021 and
will expire 3:00 A.M. EST March 01, 2023

**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)	
810.6-823 MHz	FX	N0N	0.007 W (ERP)	
850-868 MHz	FX	N0N	0.007 W (ERP)	
897-922.7 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) 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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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.

Special Conditions:

- (5) "Stop Buzzer" George Moynihan at (603) 689-8630 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.
- (8) No transmissions within +/-1 MHz of the following frequencies (962, 984, 989, 992, 1003, 1004, 1051, 1055, 1073, 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, contract numbers FA8620-16-G-3028. 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 contracts designated in the related application and enumerated above.
- (11) 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.
- (12) Operation the frequency band 128.8125-129.2 MHz is subject to prior coordinate with Aviation Spectrum Resources, Inc.
- (13) No transmission within +/-25 KHz of the following frequencies: 109.1 , 109.7, 109.95 , 111.7 , 112.7 , 112.9 , 113.6 , 114.35 , 114.4 , 114.95 , 115.6 , 116.2 , 116.5 , 117.1 , 117.4 and 118.025 MHz.
- (14) 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 (+/-25KHz)
- (15) Operation is not permitted using the following frequency bands
15000.000000-15100.000000 kHz
17900.000000-17970.000000 kHz
19990.000000- 20010.000000 kHz
21924.000000- 22000.000000 kHz
24990.000000- 25010.000000 kHz

Special Conditions:

- (16) Operation is not permitted using the following frequency bands
 - 108.650000-108.750000 MHz
 - 109.350000-109.450000 MHz
 - 109.975000-110.025000 MHz
 - 110.550000-110.650000 MHz
 - 111.575000-111.625000 MHz
 - 112.450000-112.550000 MHz
 - 114.650000-114.750000 MHz
- (17) Operation is subject to prior coordination with FAA.
- (18) Operation is subject to prior coordination with AFTRCC.