

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

EXPERIMENTAL

(Nature of Service)

WF2XUB

(Call Sign)

XT MO

(Class of Station)

0371-EX-CR-2019

(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: Merrimack, NH, within 0.46 km, centered around NL 42-48-36; WL 71-29-18

Frequency Information

MOBILE: Merrimack, NH, within 0.46 km, centered around NL 42-48-36; WL 71-29-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
121.725 MHz	FX	N0N	0.007 W (ERP)	
121.95 MHz	FX	N0N	0.007 W (ERP)	
123.575 MHz	FX	N0N	0.007 W (ERP)	
126.2 MHz	FX	N0N	0.007 W (ERP)	

This authorization effective September 01, 2019 and
will expire 3:00 A.M. EST August 31, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
134.1 MHz	FX	N0N	7 W (ERP)	
135.075 MHz	FX	N0N	0.007 W (ERP)	
140.1-147.9 MHz	FX	N0N	0.007 W (ERP)	
153.4 MHz	FX	N0N	0.007 W (ERP)	
162.85 MHz	FX	N0N	0.007 W (ERP)	
164-166 MHz	FX	N0N	0.007 W (ERP)	
168 MHz	FX	N0N	0.007 W (ERP)	
170 MHz	FX	N0N	0.007 W (ERP)	
172 MHz	FX	N0N	0.007 W (ERP)	
173.6 MHz	FX	N0N	0.007 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
330.05 MHz	FX	N0N	0.007 W (ERP)	
333.35 MHz	FX	N0N	0.007 W (ERP)	
472.225 MHz	FX	N0N	0.007 W (ERP)	
476.95 MHz	FX	N0N	0.007 W (ERP)	
481.725 MHz	FX	N0N	0.007 W (ERP)	
486.525 MHz	FX	N0N	0.007 W (ERP)	
491.4 MHz	FX	N0N	0.007 W (ERP)	
496.3 MHz	FX	N0N	0.007 W (ERP)	
500 MHz	FX	N0N	0.007 W (ERP)	
510 MHz	FX	N0N	0.007 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
530-542 MHz	FX	N0N	0.007 W (ERP)	
548-554 MHz	FX	N0N	0.007 W (ERP)	
563.1 MHz	FX	N0N	0.007 W (ERP)	
574.35 MHz	FX	N0N	0.007 W (ERP)	
578-584 MHz	FX	N0N	0.007 W (ERP)	
627-632 MHz	FX	N0N	5 W (ERP)	
634.125 MHz	FX	N0N	0.007 W (ERP)	
646.825 MHz	FX	N0N	0.007 W (ERP)	
659.75 MHz	FX	N0N	0.007 W (ERP)	
662-668 MHz	FX	N0N	0.007 W (ERP)	

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672.95 MHz	FX	N0N	0.007 W (ERP)	
686.4 MHz	FX	N0N	0.007 W (ERP)	
700.125 MHz	FX	N0N	0.007 W (ERP)	
714.125 MHz	FX	N0N	0.007 W (ERP)	
728.425 MHz	FX	N0N	0.007 W (ERP)	
734-740 MHz	FX	N0N	0.007 W (ERP)	
742.975 MHz	FX	N0N	0.007 W (ERP)	
757.85 MHz	FX	N0N	0.007 W (ERP)	
811 MHz	FX	N0N	0.007 W (ERP)	
820 MHz	FX	N0N	0.007 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
830 MHz	FX	N0N	0.007 W (ERP)	
840 MHz	FX	N0N	0.007 W (ERP)	
850 MHz	FX	N0N	0.007 W (ERP)	
865 MHz	FX	N0N	0.007 W (ERP)	
880 MHz	FX	N0N	0.007 W (ERP)	
890 MHz	FX	N0N	0.007 W (ERP)	
910 MHz	FX	N0N	0.007 W (ERP)	
920 MHz	FX	N0N	0.007 W (ERP)	
928 MHz	FX	N0N	0.007 W (ERP)	
1218.95 MHz	FX	N0N	0.007 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1243.325 MHz	FX	N0N	0.007 W (ERP)	
1251-1709 MHz	FX	N0N	0.007 W (ERP)	
1756-1850 MHz	FX	N0N	0.007 W (ERP)	
1863.555 MHz	FX	N0N	0.007 W (ERP)	
1890.945 MHz	FX	N0N	0.007 W (ERP)	
1909.965 MHz	FX	N0N	0.007 W (ERP)	
1910.025 MHz	FX	N0N	0.007 W (ERP)	
1929.975 MHz	FX	N0N	0.007 W (ERP)	
1946.925 MHz	FX	N0N	0.007 W (ERP)	
1960.575 MHz	FX	N0N	0.007 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1975.545 MHz	FX	N0N	0.007 W (ERP)	
1990.025 MHz	FX	N0N	0.007 W (ERP)	
2100 MHz	FX	N0N	0.007 W (ERP)	
2200 MHz	FX	N0N	0.007 W (ERP)	
2300 MHz	FX	N0N	0.007 W (ERP)	
2430 MHz	FX	N0N	0.007 W (ERP)	
2745.275 MHz	FX	N0N	0.007 W (ERP)	
2768.6 MHz	FX	N0N	0.007 W (ERP)	
2800.175 MHz	FX	N0N	0.007 W (ERP)	
2851.6 MHz	FX	N0N	0.007 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2856.2 MHz	FX	NON	0.007 W (ERP)	
2900-3640 MHz	FX	NON	0.007 W (ERP)	
3710-4000 MHz	FX	NON	0.007 W (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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 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.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) No operation is permitted to transmit in any public safety frequencies listed under Part 90.20 unless coordinated with the licensed public safety entity.
- (6) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 100 miles of the contours of the testing area: Location & Monitoring Service licensees (902-928 MHz)
- (7) Operation is subject to prior coordination with the existing and future Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d).
- (8) Operation must be maintain separation from the incumbent, grandfathered fixed satellite service earth stations as defined in Part 90, Subpart Z.
- (9) The designated point-of-contact to terminate transmissions if interference occurs is Mr. George Moynihan at (603) 689-8630 and BAE Systems Emergency Services Center at (603) 885-3842.
- (10) Operation is subject to prior coordination with FAA.
- (11) Using the frequency band 2700-2900 MHz, transmissions are required to be blanked between 0-270 degrees reference to true North.
- (12) Renew the frequency 172 MHz is subject to prior coordination with Department of Justice. Point-of-contact Quan Vu at 202-598-2103 ; email quan.vu@usdoj.gov.

Special Conditions:

- (13) Operation is NOT PERMITTED using the frequency band 1400-1427 MHz and 1660.5-1668.4 MHz.
- (14) Use of this frequency band 1251-1850 MHz under the authority of this assignment is subject to further coordination with HQ USAF frequency coordinator, Alexandria, VA to ensure compatibility with existing uses.
- (15) Experimental use of the frequency band 123.125-123.575 MHz, 1435-1525 MHz and 2360-2395 MHz is secondary to, and must not interfere with, Flight Test operations. Licensee must coordinate with other users as necessary to minimize interference. Renewal of this License is subject to prior coordination with AFTRCC Frequency Advisory Committee, www.afttrcc.org.