

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WG2XZT

(Call Sign)

0319-EX-CR-2018

(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(h) of the Commission's Rules

Station Locations

- (1) Merrimack (HILLSBOROUGH), NH - NL 42-48-40; WL 71-29-24
- (2) Merrimack (HILLSBOROUGH), NH - NL 42-48-46; WL 71-29-23

Frequency Information

Merrimack (HILLSBOROUGH), NH - NL 42-48-40; WL 71-29-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
402.725 MHz	FX	NON	10 W (ERP)	
423.275 MHz	FX	NON	10 W (ERP)	
427.5 MHz	FX	NON	10 W (ERP)	
431.775 MHz	FX	NON	10 W (ERP)	

This authorization effective September 26, 2018 and
will expire 3:00 A.M. EST July 10, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Merrimack (HILLSBOROUGH), NH - NL 42-48-40; WL 71-29-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
436.1 MHz	FX	N0N	10 W (ERP)	
440.45 MHz	FX	N0N	10 W (ERP)	
444.85 MHz	FX	N0N	10 W (ERP)	
449.3 MHz	FX	N0N	10 W (ERP)	
453.8 MHz	FX	N0N	10 W (ERP)	
456-470 MHz	FX	N0N	10 W (ERP)	
472.225 MHz	FX	N0N	10 W (ERP)	
476.95 MHz	FX	N0N	10 W (ERP)	
481.725 MHz	FX	N0N	10 W (ERP)	
486.525 MHz	FX	N0N	10 W (ERP)	

Frequency Information

Merrimack (HILLSBOROUGH), NH - NL 42-48-40; WL 71-29-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
491.4 MHz	FX	N0N	10 W (ERP)	
496.3 MHz	FX	N0N	10 W (ERP)	
500-589 MHz	FX	N0N	10 W (ERP)	
603-605 MHz	FX	N0N	10 W (ERP)	
620-756 MHz	FX	N0N	10 W (ERP)	
776-788 MHz	FX	N0N	10 W (ERP)	
895-930 MHz	FX	N0N	10 W (ERP)	
945-952 MHz	FX	N0N	10 W (ERP)	
1010 MHz	FX	N0N	10 W (ERP)	
1040.35 MHz	FX	N0N	0.007 W (ERP)	

Frequency Information

Merrimack (HILLSBOROUGH), NH - NL 42-48-40; WL 71-29-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1195.095 MHz	FX	N0N	0.007 W (ERP)	
1356 MHz	FX	N0N	10 W (ERP)	
1428-1500 MHz	FX	N0N	10 W (ERP)	
1615-1641 MHz	FX	N0N	10 W (ERP)	
1669-1705 MHz	FX	N0N	10 W (ERP)	
1785-1845 MHz	FX	N0N	10 W (ERP)	
1855-1950 MHz	FX	N0N	10 W (ERP)	
1950-2050 MHz	FX	N0N	10 W (ERP)	
2300-2315 MHz	FX	N0N	10 W (ERP)	
2360-2490 MHz	FX	N0N	10 W (ERP)	

Frequency Information

Merrimack (HILLSBOROUGH), NH - NL 42-48-40; WL 71-29-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2900-4200 MHz	FX	N0N	10 W (ERP)	
4405-4940 MHz	FX	N0N	10 W (ERP)	
5250-6000 MHz	FX	N0N	10 W (ERP)	

Merrimack (HILLSBOROUGH), NH - NL 42-48-46; WL 71-29-23

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402.725 MHz	FX	N0N	10 W (ERP)	
423.275 MHz	FX	N0N	10 W (ERP)	
427.5 MHz	FX	N0N	10 W (ERP)	
431.775 MHz	FX	N0N	10 W (ERP)	
436.1 MHz	FX	N0N	10 W (ERP)	
440.45 MHz	FX	N0N	10 W (ERP)	

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449.3 MHz	FX	N0N	10 W (ERP)	
453.8 MHz	FX	N0N	10 W (ERP)	
456-470 MHz	FX	N0N	10 W (ERP)	
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476.95 MHz	FX	N0N	10 W (ERP)	
481.725 MHz	FX	N0N	10 W (ERP)	
486.525 MHz	FX	N0N	10 W (ERP)	
491.4 MHz	FX	N0N	10 W (ERP)	
496.3 MHz	FX	N0N	10 W (ERP)	

Frequency Information

Merrimack (HILLSBOROUGH), NH - NL 42-48-46; WL 71-29-23

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500-589 MHz	FX	N0N	10 W (ERP)	
603-605 MHz	FX	N0N	10 W (ERP)	
620-756 MHz	FX	N0N	10 W (ERP)	
776-788 MHz	FX	N0N	10 W (ERP)	
895-930 MHz	FX	N0N	10 W (ERP)	
945-952 MHz	FX	N0N	10 W (ERP)	
1010 MHz	FX	N0N	10 W (ERP)	
1040.35 MHz	FX	N0N	0.007 W (ERP)	
1195.095 MHz	FX	N0N	0.007 W (ERP)	
1356 MHz	FX	N0N	10 W (ERP)	

Frequency Information

Merrimack (HILLSBOROUGH), NH - NL 42-48-46; WL 71-29-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1428-1500 MHz	FX	N0N	10 W (ERP)	
1615-1641 MHz	FX	N0N	10 W (ERP)	
1669-1705 MHz	FX	N0N	10 W (ERP)	
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1950-2050 MHz	FX	N0N	10 W (ERP)	
2300-2315 MHz	FX	N0N	10 W (ERP)	
2360-2490 MHz	FX	N0N	10 W (ERP)	
2900-4200 MHz	FX	N0N	10 W (ERP)	
4405-4940 MHz	FX	N0N	10 W (ERP)	

Frequency Information

Merrimack (HILLSBOROUGH), NH - NL 42-48-46; WL 71-29-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5250-6000 MHz	FX	NON	10 W (ERP)	

Special Conditions:

- (1) Assignment in frequency bands 960-1400, 2700-2900, or 9000-9200 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.
- (2) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to authorization with the HQ USAF Frequency Coordinator, Alexandria, VA., 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 HQ USAF Frequency Coordinator, Alexandria, VA., as necessary to ensure compatibility with existing uses.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) Operation is subject to coordinate with the local Society of Broadcast Engineers frequency coordinator and the Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d).
- (6) Licensee must maintain separation from the grandfathered earth stations as defined in Part 90 subpart Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in 3650-3700 MHz
- (7) Ensure that the operations will not cause harmful interference to any existing registered stations in the 3650-3700 MHz, and notify the registered users in the area.
- (8) Operation is subject to prior coordination with FAA Eastern Regional Office, JFK International Airport, NY 11430, Attn: Frequency Management Office; Telephone 718-712-8343.
- (9) The designated point-of-contact to terminate the systems if interference occurs is George Moynihan - (603) 689-8630 and BAE Systems Emergency Services Center - (603) 885-3842.
- (10) Operation is NOT PERMITTED using any frequencies in the band 756-768 MHz, 788-798 MHz, 806-869 MHz, 1400-1427 MHz, 1550-1600 MHz, 1660.5-1668.4 MHz, 4990-5000 MHz and 5600-5650 MHz.
- (11) The frequencies 1040.35 MHz and 1195.095 MHz are only used the power level 0.007 W.

Special Conditions:

- (12) The Air Force program office will process these requirements through military channels to support the contract. No Military frequencies are used for this experiment as Independent Research and Development.
- (13) Operation is NOT PERMITTED using the following frequency bands: 225-328.6 MHz and 335.4-399.9 MHz.
- (14) Operation is NOT PERMITTED using the frequency 1080 MHz. Any FAA frequency replaces for this frequency, it must be coordinated with FAA Regional Office prior to resubmit it as the modification.
- (15) Operation must coordinate with AFTRCC prior to submit a renewal.
- (16) Use of this frequency or band under the authority of this assign is subject to further coordination with the FAA New England coordinator, Burlington, Massachusetts, as necessary to ensure compatibility with existing uses.
- (17) This frequency assign was coordinated prior to authorization with FAA headquarters, 800 Independence Avenue, S.W., Washington, DC 20591. Phone: 202-267-8699.
- (18) Transmissions are required to be blanked between 0-270 degrees reference to true north for the frequency 1356 MHz.