

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

EXPERIMENTAL

(Nature of Service)

XT      FX

(Class of Station)

WH2XZR

(Call Sign)

0077-EX-PL-2015

(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

Frequency Information

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

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 449.3 MHz | FX            | N0N                 | 1 MW (ERP)       |                           |
| 820 MHz   | FX            | N0N                 | 1 MW (ERP)       |                           |
| 898.6 MHz | FX            | N0N                 | 1 MW (ERP)       |                           |
| 1010 MHz  | FX            | N0N                 | 10 W (ERP)       |                           |

This authorization effective November 03, 2015 and  
will expire 3:00 A.M. EST November 01, 2017

**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 (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 1640 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 2302 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 2400 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 2420 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 3054 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 3100 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 3200 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 3280 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 4072 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 4100 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |

## Frequency Information

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

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 4470 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 4500 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 4600 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 4604 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 4800 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 4840 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 4900 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 4920 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 5260 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 5800 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |

## Frequency Information

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

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 5845 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 5920 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 6108 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 6200 MHz  | FX            | N0N                 | 1 MW (ERP)       |                           |
| 6560 MHz  | FX            | N0N                 | 1 MW (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) Operation is subject to prior coordination with the existing and future Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d) for the following frequencies: 4072 MHz, 4100 MHz, 4200 MHz, 6108 MHz, 6200 MHz, and 6560 MHz.
- (4) Operation shall immediately cease if such operation causes harmful radio interference to the other microwave users.
- (5) The designated point of contact to terminate the systems if interference occurs is George Moynihan (603) 689-8630 or BAE Systems Emergency Services Center (603) 885-3842.
- (6) Operation is NOT PERMITTED using the frequency 6400 MHz.
- (7) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by USAF. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein 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.

**Special Conditions:**

(8) Operation the frequency 1010 MHz shall not exceed 10 watt (ERP).