

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

EXPERIMENTAL

(Nature of Service)

XC      FX

(Class of Station)

WE2XMO

(Call Sign)

0344-EX-RR-2013

(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) 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 (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 8 MHz     | FX            | NON                 | 0.007 W (ERP)    |                           |
| 10.5 MHz  | FX            | NON                 | 0.007 W (ERP)    |                           |
| 20.02 MHz | FX            | NON                 | 0.007 W (ERP)    |                           |
| 40.02 MHz | FX            | NON                 | 0.007 W (ERP)    |                           |

This authorization effective November 30, 2013 and  
will expire 3:00 A.M. EST January 24, 2015

**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 (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 60.02 MHz   | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 70 MHz      | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 80 MHz      | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 90 MHz      | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 100 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 110 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 121.725 MHz | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 130 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 140 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 150 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |

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| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 160 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 170 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 180 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 190 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 200 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 210 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 220 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 230.025 MHz | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 240 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 250.125 MHz | FX            | N0N                 | 0.007 W (ERP)    |                           |

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| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 260 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 270 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 281.025 MHz | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 290.025 MHz | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 300 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 350.05 MHz  | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 400 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 450 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 500 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 550 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |

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| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 600 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 646.825 MHz | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 700.125 MHz | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 757.85 MHz  | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 800 MHz     | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 858.287 MHz | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 902.025 MHz | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 999.95 MHz  | FX            | N0N                 | 0.007 W (ERP)    |                           |

## Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) Licensee should be prepared to shut down if the test range cause harmful interference to Auxiliary Broadcasting operations in the immediate vicinity.

**Special Conditions:**

- (5) Operation is NOT PERMITTED use of the frequencies 230 MHz, 250 MHz, 280 MHz, 290 MHz and 350 MHz for this renewal due to potential interference to Federal Government operations.
- (6) Licensee is approved to use the frequencies 230.025 MHz, 250.125 MHz, 281.025 MHz, 290.025 MHz and 350.05 MHz instead of using 230 MHz, 250 MHz, 280 MHz, 290 MHz and 350 MHz for this experiment.
- (7) The designated point-of-contact to terminate transmissions if interference occurs is Rick Ball at 603-318-6913 AND BAE Systems Emergency Services Center (603) 885-3842.
- (8) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Air Force contract number FA8620-11-G-4029. 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 enumerate above.
- (9) Operations ARE NOT PERMITTED to use the frequencies in this license for purpose of Internal Research and Development (IRAD).
- (10) Operation the frequencies 110 MHz and 999.95 MHz is subject to prior coordination with FAA, New England Regional Office, 12 New England Executive Park, Burlington, Massachusetts 01803, phone 617-273-7172.