

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

EXPERIMENTAL

(Nature of Service)

XC      FX

(Class of Station)

WG2XMC

(Call Sign)

0162-EX-CR-2016

(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 (+/-) |
|----------------|---------------|---------------------|------------------|---------------------------|
| 174-216 MHz    | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 216-225 MHz    | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 225-328.6 MHz  | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 290.532886 MHz | FX            | N0N                 | 0.007 W (ERP)    |                           |

This authorization effective March 01, 2017 and  
will expire 3:00 A.M. EST March 01, 2019

**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 (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 307.231208 MHz  | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 335.4-399.9 MHz | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 353.615436 MHz  | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 381.445973 MHz  | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 387.012081 MHz  | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 399.9-450 MHz   | FX            | N0N                 | 0.007 W (ERP)    |                           |
| 450-454 MHz     | FX            | N0N                 | 0.007 W (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) The designated point-of-contact to terminate the systems if having interference is Mr. Sean Hallinan (603) 361-5959, Rick Ball (603) 318-6913 or BAE Systems Emergency Services Center at (603) 885-3842.
- (4) Licensee must coordinate with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator prior to operate the frequency band 174-216 MHz and 450-454 MHz.

**Special Conditions:**

- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the US NAVY contract number N00019-14-C-0032. 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 enumerated above.
- (6) Licensee is ONLY PERMITTED using the spot frequencies below in the band 399.9-450 MHz:  
M401.855034,M403.710403,M405.565772,M407.421141,M409.276510,  
M411.131879  
M412.987248,M414.842617,M416.697987,M418.553356,M420.408725,  
M422.264094  
M424.119463,M425.974832,M427.830201,M429.685570,M431.540940,  
M433.396309  
M435.251678,M437.107047,M438.962416,M440.817785,M442.673154  
M444.528523,M446.383893,M448.239262
- (7) Licensee is ONLY PERMITTED using the spot frequencies below in the band 216-225 MHz:  
M216.318121,M218.173490,M220.028859,M221.884228,M223.739597
- (8) Operation on this assignment is subject to immediate cessation, if it causes harmful interference to Department of Defense assignments.
- (9) Licensee is ONLY PERMITTED using the spot frequencies below in the band 225-328.6 MHz:  
M225.594966, M227.450336, M229.305705  
M231.161074, M233.016443, M234.871812  
M236.727181, M238.582550, M240.437919  
M242.293289, M244.148658, M246.004027  
M247.859396, M249.714765, M251.570134  
M253.425503, M255.280872, M257.136242  
M258.991611, M260.846980, M262.702349  
M264.557718, M266.413087, M268.268456  
M270.123826, M271.979195, M273.834564  
M275.689933, M277.545302, M279.400671  
M281.256040, M283.111409, M284.966779  
M286.822148, M288.677517, M292.388255  
M294.243624, M296.098993, M297.954362  
M299.809732, M301.665101, M303.520470  
M305.375839, M309.086577, M310.941946  
M312.797315, M314.652685, M316.508054  
M318.363423, M320.218792, M322.074161  
M323.929530, M325.784899, M327.640268

**Special Conditions:**

- (10) Licensee is ONLY PERMITTED using the spot frequencies below in the band 335.4-399.9 MHz:
- M335.445400, M336.917114, M338.772483  
M340.627852, M342.483221, M344.338591  
M346.193960, M348.049329, M349.904698  
M351.760067, M355.470805, M357.326174  
M359.181544, M361.036913, M362.892282  
M364.747651, M366.603020, M368.458389  
M370.313758, M372.169128, M374.024497  
M375.879866, M377.735235, M379.590604  
M383.301342, M385.156711, M388.867450  
M390.722819, M392.578188, M394.433557  
M396.288926, M398.144295, M399.999664