

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

EXPERIMENTAL

(Nature of Service)

WF2XJH

(Call Sign)

XT MO

(Class of Station)

0100-EX-CM-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(i) of the Commission's Rules

Station Locations

- (1) MOBILE: Temporary fixed ground operations Greenlawn, NY, within 10 km, centered around NL 40-51-50; WL 73-22-29

Frequency Information

MOBILE: Temporary fixed ground operations Greenlawn, NY, within 10 km, centered around NL 40-51-50; WL 73-22-29

| Frequency     | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|------------------------------------------|------------------|---------------------------|
| 2.2-2.364 GHz | MO            | 22M0G1D<br>90M0G1D<br>64M0M1D<br>400KM1D | 2000 W (ERP)     |                           |
| 2.396-2.5 GHz | MO            | 22M0G1D<br>90M0G1D<br>64M0M1D<br>400KM1D | 2000 W (ERP)     |                           |
| 4.4-4.94 GHz  | MO            | 22M0G1D                                  | 2000 W (ERP)     |                           |

This authorization effective October 22, 2018 and  
will expire 3:00 A.M. EST August 01, 2019

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Temporary fixed ground operations Greenlawn, NY, within 10 km, centered around NL 40-51-50; WL 73-22-29

| Frequency      | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 4.4-4.94 GHz   | MO            | 90M0G1D<br>64M0M1D<br>400KM1D                                  | 2000 W (ERP)     |                           |
| 9.63-9.95 GHz  | MO            | 22M0G1D<br>90M0G1D<br>315MG1D<br>64M0M1D<br>400KM1D            | 10000 W (ERP)    |                           |
| 10.1-10.47 GHz | MO            | 22M0G1D<br>90M0G1D<br>64M0M1D<br>400KM1D<br>315MG1D<br>361MG1D | 10000 W (ERP)    |                           |
| 14.4-14.93 GHz | MO            | 22M0G1D<br>90M0G1D<br>315MG1D<br>64M0M1D<br>400KM1D<br>361MG1D | 10000 W (ERP)    |                           |
| 15-15.5 GHz    | MO            | 22M0G1D<br>90M0G1D<br>64M0M1D<br>400KM1D<br>351MG1D            | 10000 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) No aircraft are involved in this operation.
- (4) Operation must avoid transmissions toward White Plains, NY which could affect FAA operations.
- (5) Stop Buzzers, Manoj Mathew at 862-228-4255 or Robert Grange 516-592-2731 shall be available during testing to cease operations in the event of any interference.
- (6) The applicant must coordinate with the Broadband Radio Service licensees, the local Society of Broadcast Engineers frequency coordinator and the Fixed Microwave Service licensees prior to operation in 2.396-2.5 GHz band.
- (7) Operation is NOT PERMITTED using the frequency band 4.94-4.99 GHz.
- (8) Prior to commencing any operations, the applicant must obtain consent from the WCS (2305-2320 MHz/2345-2360 MHz) licensee (AT&T).
- (9) The applicant must coordinate with the Aerospace and Flight Test Radio Coordinating Council (AFTRCC), prior to commencing any operations.
- (10) All BAE Systems Information and Electronic Systems Integration Inc. operations granted on an experimental basis shall be on an unprotected, non-interference basis to authorized federal stations.
- (11) BAE Systems Information and Electronic Systems Integration Inc. shall be aware of that operational use of the subject equipment in the 2200-2290 MHz frequency band may not be possible, and BAE Systems Information and Electronic Systems Integration Inc. shall have no expectations that future requests will be approved.
- (12) The notice to Sirius XM 24 hours in advance of any BAE Systems operations on the relevant frequencies should be provided to Jim Blitz, James.Blitz@siriusxm.com and Douglas Ayerst, Douglas.Ayerst@siriusxm.com
- (13) The operations will be exclusively ground-based.
- (14) Operation the frequency band 2320-2345 MHz is to reduce ERP from 2000W to 200W.
- (15) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (16) Operations in the frequency bands 2305-2320 MHz and 2345-2360 MHz must comply with the emission limits set in 47 C.F.R. § 27.53(a) applicable to those bands.
- (17) This experimental license was obtained based on the written consent of Sirius XM Radio Inc., the FCC licensee for the 2320-2345 MHz band.
- (18) Operations of the authorized station using the 2483-2500 MHz frequency band must be in compliance with the coordination agreement between the Licensee and Globalstar.
- (19) The authorized station must be in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules.

**Special Conditions:**

- (20) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (21) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (22) Use of the frequency band 2200-2364 MHz under the authority of this assign is subject to further coordination with the Area Frequency Coordinator, Patuxent River, Maryland, as necessary to ensure compatibility with existing uses.