

**United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WK9XWA

(Call Sign)

XT MO

(Class of Station)

0147-EX-ST-2017

(File Number)

NAME BAE Systems Information and Electronic Systems Integration Inc.

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

**Purpose Of Operation:**

BAE Systems developed and produces SIGINT systems used by US Government military customers.

**Station Locations**

- (1) MOBILE: Temporary Fixed Ground Operations, Tooele County, UT, within 5 km, centered around NL 40-16-19; WL 113-03-04

**Frequency Information**

MOBILE: Temporary Fixed Ground Operations, Tooele County, UT, within 5 km, centered around NL 40-16-19; WL 113-03-04

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 20-99.5 MHz | MO            | NON                 | 50 W (ERP)       |                           |
| 100-756 MHz | MO            | NON                 | 24 W (ERP)       |                           |
| 770-787 MHz | MO            | NON                 | 24 W (ERP)       |                           |

This authorization effective April 12, 2017 and  
will expire 3:00 A.M. EST September 11, 2017

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Temporary Fixed Ground Operations, Tooele County, UT, within 5 km, centered around NL 40-16-19; WL 113-03-04

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 800-960 MHz   | MO            | NON                 | 24 W (ERP)       |                           |
| 1800-3000 MHz | MO            | NON                 | 104 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 applicant must obtain consents from the Advance Wireless Service, Educational Broadband Service and Broadband Radio Service licensees prior to accessing to 1800-3000 MHz band.
- (4) The applicant must coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in 20-99.5 MHz, 100-758 MHz, and 1800-3000 MHz bands.
- (5) BAE must coordinate with the Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d) prior to operation in 800-960 MHz and 1800-3000 MHz bands.
- (6) BAE must obtain consents of the following within 50 miles of the test area:
  - All 700 MHz licensees (698-758 MHz; 775-788 MHz)
  - All Cellular licensees (824-849 MHz/869-894 MHz)
  - Commercial Air-Ground licensee (849-851 MHz/894-896 MHz)
  - SMR licensees (806-821 MHz/851-866 MHz)
  - SMR licensees (896-901 MHz/935-940 MHz)
  - All Broadband PCS licensee (1850-1910 MHz/1930-1990 MHz)
  - All WCS licensees (2305-2320 MHz/2345-2360 MHz)
- (7) BAE must "notification" of the following within 50 miles of the test area:
  - Narrowband PCS licensees (901-902 MHz)
  - Location & Monitoring Service licensees (902-928 MHz)
  - All services in 220 MHz
  - 218-219 MHz Service
  - 220-222 MHz Service
  - Paging Service licensees in 35 MHz, 43 MHz, 152 MHz, 158 MHz, 152 MHz/158 MHz and 454 MHz/459 MHz
  - General Aviation Air-Ground Service in 454 MHz/459 MHz
  - 1390-1392 Band Licensees

**Special Conditions:**

- (8) Experimental use is secondary to, and must not interfere with, Flight Test operations.
- (9) BAE must coordinate with other users as necessary to minimize interference.
- (10) Operation is subject to prior coordination with AFTRCC Frequency Advisory Committee.
- (11) If interference is reported to ASRI, BAE Systems Inc. must cease operations immediately.
- (12) Operation is subject to prior coordination with ASRI Frequency Advisory Committee.
- (13) Operation is subject to prior coordination with FAA.
- (14) Licensee must obtain a written consent from ORBCOMM for using the following frequency band: 137-401 MHz.
- (15) Licensee must obtain a written consent from Sirius XM Radio for using the following frequency band: 2320-2345 MHz.
- (16) Licensee must obtain a written consent from Global Star for using the following frequency band: 2483-2501 MHz.
- (17) Operation is NOT PERMITTED using any standard frequencies list under rule US340 and public safety frequencies list under rule 90.20.
- (18) Operation is NOT PERMITTED using 756-768 MHz and 788-798 MHz.
- (19) ITU Regulations, Appendix 15 prohibits any interference to the following Safety and Distress frequencies:

|              |               |
|--------------|---------------|
| 156.725MHz   | DSC           |
| 156.800MHz   | CHAN 16       |
| 161.975MHz   | AIS I         |
| 162.025MHz   | AIS II        |
| 406-406.1MHz | EPIRB/ELT/PLB |
| 1544-1545MHz | D&S-OPS       |

- (20) Due to Safety of Flight concerns the following frequencies are used for Air/Ground/Air Communications and must be notched +/- 1.5 KHz:

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| 20.2475 MHz | 20.3300 MHz | 20.8430 MHz | 20.8825 MHz |
| 20.9850 MHz | 23.0740 MHz | 23.0770 MHz | 23.0910 MHz |
| 23.0940 MHz | 23.8405 MHz | 24.2285 MHz | 24.7935 MHz |
| 26.5825 MHz | 26.6405 MHz | 27.5905 MHz | 27.9205 MHz |

- (21) The following frequency band are not available under Table of Allocations note US 246:

73 - 74.6 MHz  
608 - 614 MHz  
2655 - 2690 MHz  
2690 - 2700 MHz

**Special Conditions:**

- (22) BAE Systems must not utilize the following frequencies in order to protect the National Weather Service Emergency Alert Radio System:
- 162.450 MHz +/- 12.5KHz
  - 162.475 MHz +/- 12.5KHz
  - 162.475 MHz +/- 12.5KHz
  - 162.525 MHz +/- 12.5KHz
  - 162.550 MHz +/- 12.5KHz
  - 410.575 MHz +/-6.25KHz
  - 413.900 MHz +/-6.25KHz
- (23) BAE Systems must notch the following frequencies to protect Department of the Interior operations:
- 163.0250 MHz +/- 6.25 KHz
  - 164.7750 MHz +/- 6.25 KHz
  - 166.3750 MHz +/- 6.25 KHz
  - 168.5000 MHz +/- 6.25 KHz
  - 170.5125 MHz +/- 6.25 KHz
  - 172.4375 MHz +/- 6.25 KHz
  - 172.4500 MHz +/- 6.25 KHz
  - 173.6750 MHz +/- 6.25 KHz
- (24) MAG coordination provided is for the 225.000-328.600 and 335.400-399.900 MHz frequency bands only. Prior to the start of testing BAE must contact Mr. Jason Straughan, Dugway SMO at 435-831-3411; email [jason.straughan@us.army.mil](mailto:jason.straughan@us.army.mil) , for specific frequency assignments to be used at Dugway in support of the subject requests.
- (25) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Army, contract number W56KGY-16-D-0013. 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.
- (26) The designated point-of-contacts to terminate transmissions if interference occurs is: Stephen (Speedy) Lang 603-738-7295; Paul Nuccio 603-897-9764; Doug McDaniel 256-759-7642/ 435-831-7841; Nate Critchlow 435-841-1474 and Jason Straughan 435-831-3411.