

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

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WG2XFP

(Call Sign)

0143-EX-RR-2013

(File Number)

NAME Raytheon BBN Technologies

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: Sky Meadow State Park, Delaplane, VA, within 2 km, centered around NL 38-59-32; WL 77-57-53
- (2) MOBILE: Mercersburg, PA, within 2 km, centered around NL 39-44-29; WL 77-56-03
- (3) MOBILE: OakGrove Park, Arlington, VA, within 2 km, centered around NL 38-53-26; WL 77-06-33

Frequency Information

MOBILE: Sky Meadow State Park, Delaplane, VA, within 2 km, centered around NL 38-59-32; WL 77-57-53

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 176-215 MHz | MO            | 1M00J0N<br>5M00J1N  | 0.5 W (ERP)      |                           |
| 460-608 MHz | MO            | 1M00J0N<br>20M0J1N  | 0.5 W (ERP)      |                           |
| 880-970 MHz | MO            | 20M0J1N             | 0.5 W (ERP)      |                           |

This authorization effective June 29, 2013 and  
will expire 3:00 A.M. EST July 01, 2014

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Sky Meadow State Park, Delaplane, VA, within 2 km, centered around NL 38-59-32; WL 77-57-53

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 880-970 MHz     | MO            | 1M00J0N             | 0.5 W (ERP)      |                           |
| 880-932.675 MHz | MO            | 1M00J0N<br>20M0J1N  | 0.5 W (ERP)      |                           |
| 941.725-970 MHz | MO            | 1M00J0N<br>20M0J1N  | 0.5 W (ERP)      |                           |

MOBILE: Mercersburg, PA, within 2 km, centered around NL 39-44-29; WL 77-56-03

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 176-215 MHz | MO            | 1M00J0N<br>5M00J1N  | 0.5 W (ERP)      |                           |
| 460-608 MHz | MO            | 1M00J0N<br>20M0J1N  | 0.5 W (ERP)      |                           |
| 880-970 MHz | MO            | 20M0J1N<br>1M00J0N  | 0.5 W (ERP)      |                           |

## Frequency Information

MOBILE: OakGrove Park, Arlington, VA, within 2 km, centered around NL 38-53-26; WL 77-06-33

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 176-215 MHz     | MO            | 1M00J0N<br>20M0J1N  | 0.5 W (ERP)      |                           |
| 460-608 MHz     | MO            | 1M00J0N<br>20M0J1N  | 0.5 W (ERP)      |                           |
| 880-970 MHz     | MO            | 1M00J0N<br>20M0J1N  | 0.5 W (ERP)      |                           |
| 880-932.675 MHz | MO            | 20M0J1N<br>1M00J0N  | 0.5 W (ERP)      |                           |
| 941.725-970 MHz | MO            | 20M0J1N<br>1M00J0N  | 0.5 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) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir @ sbe.org; information, www.sbe.org.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Operation is subject to prior coordination with affected existing Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d).
- (5) No operation is permitted in frequency band 932.675 - 941.725 MHz in the Delaplane, VA and Arlington, VA areas due to possibility of harmful interference to the federal operations.