

**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)

0068-EX-ML-2015

(File Number)

NAME Raytheon SAS BBN

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(j) 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 3.5 km, centered around NL 38-53-26; WL 77-06-33
- (4) MOBILE: Alexandria, VA, within 2 km, centered around NL 38-46-29; WL 77-06-15

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 5M00J1N	0.5 W (ERP)	
460-608 MHz	MO	1M00J0N 20M0J1N	0.5 W (ERP)	
880-932.675 MHz	MO	1M00J0N	0.5 W (ERP)	

This authorization effective May 14, 2015 and
will expire 3:00 A.M. EST May 01, 2017

**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 (+/-)
880-932.675 MHz	MO	20M0J1N	0.5 W (ERP)	
941.725-970 MHz	MO	1M00J0N 20M0J1N	0.5 W (ERP)	
3669 MHz	MO	38M0J0N 38M0J1N	0.5 W (ERP)	
7900-8000 MHz	MO	1M00J0N	0.5 W (ERP)	
12.9-13 GHz	MO	1M00J0N	0.5 W (ERP)	
17.9-18 GHz	MO	1M00J0N	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 5M00J1N	0.5 W (ERP)	
460-608 MHz	MO	1M00J0N 20M0J1N	0.5 W (ERP)	

Frequency Information

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 (+/-)
880-970 MHz	MO	20M0J1N 1M00J0N	0.5 W (ERP)	
3669 MHz	MO	38M0J0N 38M0J1N	0.5 W (ERP)	
7900-8000 MHz	MO	1M00J0N	0.5 W (ERP)	
12.9-13 GHz	MO	1M00J0N	0.5 W (ERP)	
17.9-18 GHz	MO	1M00J0N	0.5 W (ERP)	

MOBILE: OakGrove Park, Arlington, VA, within 3.5 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 20M0J1N	0.5 W (ERP)	
460-608 MHz	MO	1M00J0N 20M0J1N	0.5 W (ERP)	
880-932.675 MHz	MO	20M0J1N	0.5 W (ERP)	

Frequency Information

MOBILE: OakGrove Park, Arlington, VA, within 3.5 km, centered around NL 38-53-26; WL 77-06-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
880-932.675 MHz	MO	1M00J0N	0.5 W (ERP)	
941.725-970 MHz	MO	20M0J1N 1M00J0N	0.5 W (ERP)	
3669 MHz	MO	38M0J0N 38M0J1N	0.5 W (ERP)	
7900-8000 MHz	MO	1M00J0N	0.5 W (ERP)	
12.9-13 GHz	MO	1M00J0N	0.5 W (ERP)	
17.9-18 GHz	MO	1M00J0N	0.5 W (ERP)	

MOBILE: Alexandria, VA, within 2 km, centered around NL 38-46-29; WL 77-06-15

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

Frequency Information

MOBILE: Alexandria, VA, within 2 km, centered around NL 38-46-29; WL 77-06-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
880-932.675 MHz	MO	1M00J0N 20M0J1N	0.5 W (ERP)	
941.725-960 MHz	MO	1M00J0N 18M0J1N	0.5 W (ERP)	
3669 MHz	MO	38M0J0N 38M0J1N	0.5 W (ERP)	
7900-8000 MHz	MO	1M00J0N	0.5 W (ERP)	
12.9-13 GHz	MO	1M00J0N	0.5 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) 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.
- (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.
- (6) Operation subject to notification of narrowband PCS licensees (901-902 MHz), and paging licensees in 931 MHz UHF frequency.

Special Conditions:

- (7) Licensee shall understand that equipment will not be developed for operational use in the band 7900-8000 MHz.
- (8) Due to anticipated harmful interference to the federal operations, frequency band 17.9-18 GHz is not permitted at Alexandria, VA location.