

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

EXPERIMENTAL

(Nature of Service)

WH9XWU

(Call Sign)

XT FX

(Class of Station)

0740-EX-ST-2014

(File Number)

NAME Raytheon BBN Technologies

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:

To test various wireless technologies.

Station Locations

(1) Columbia (HOWARD), MD - NL 39-10-58; WL 76-51-03

Frequency Information

Columbia (HOWARD), MD - NL 39-10-58; WL 76-51-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
462-467 MHz	FX	12K5F8W	200 mW (ERP)	
824.2-849.2 MHz	FX	270KG7E	200 mW (ERP)	
869.2-894.2 MHz	FX	25M0G7E	200 mW (ERP)	

This authorization effective September 29, 2014 and
will expire 3:00 A.M. EST March 30, 2015

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Columbia (HOWARD), MD - NL 39-10-58; WL 76-51-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
890-915 MHz	FX	25M0G7E	200 mW (ERP)	
925-960 MHz	FX	25M0G7E	200 mW (ERP)	
1710.2-1784.8 MHz	FX	25M0G7E	200 mW (ERP)	
1805.2-1879.8 MHz	FX	25M0G7E	200 mW (ERP)	
1850-1910 MHz	FX	60M0G7E	200 mW (ERP)	
1850.2-1909.8 MHz	FX	25M0G7E	200 mW (ERP)	
1930-1990 MHz	FX	60M0G7E	200 mW (ERP)	
1930.2-1989.8 MHz	FX	25M0G7E	200 mW (ERP)	
2390-2506 MHz	FX	40M0G7W 20M0D7W	200 mW (ERP)	
2400-2483.5 MHz	FX	2M00F7W 1M00F7W	5 mW (ERP)	

Frequency Information

Columbia (HOWARD), MD - NL 39-10-58; WL 76-51-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483.5 MHz	FX	1M00G7W 2M00G7W	200 mW (ERP)	
2414-2484 MHz	FX	20M0G7W 40M0G7W	200 mW (ERP)	
2500-2570 MHz	FX	70M0G7E	200 mW (ERP)	
2620-2690 MHz	FX	70M0G7E	200 mW (ERP)	
5180-5600 MHz	FX	40M0G7W	200 mW (ERP)	
5660-5809 MHz	FX	40M0G7W	200 mW (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 in 1710.2-1784.8 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (4) Coordinate with the Fixed Microwave Service licensees prior to operation in 925-960 MHz, 2390-2506 MHz, 2400-2483.5 MHz, 2414-2484 MHz.
- (5) Operation is subject to prior coordination in 925-960 MHz, 2390-2506 MHz, 2400-2483.5 MHz, 2414-2484 MHz 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.

Special Conditions:

- (6) Operation is subject to prior coordination in 2500-2570 MHz and 2620-2690 MHz with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (7) Raytheon BBN Technologies must obtain approved Mid-Atlantic Frequency Coordinator (MIDAFRC) coordination and notification of NAVY POC, Mr. Robert Goddard at 301-342-1194 (robert.n.goddard@navy.mil) on frequency bands, M1710.2-M1784.8, M1805.2-M1910, and M5180-M5809 prior to any testing operations.
- (8) Raytheon must notch out the following:
 - a. 932.700 MHz +/- 50 kHz
 - b. 941.700 MHz +/- 50 kHz
- (9) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization Under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.
- (10) Operation is subject to consent of ALL Cellular and PCS licensees within 25 miles of the location of the test.