

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

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WF2XLB

(Call Sign)

0092-EX-RR-2011

(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: Cambridge, MA, within 2 km, centered around NL 42-36-27; WL 71-08-49

Frequency Information

MOBILE: Cambridge, MA, within 2 km, centered around NL 42-36-27; WL 71-08-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
915 MHz	MO	5M00D1D 4M00F1D 990KF1D 5M00F1D 990MD1D 4M00D1D	1 W (ERP)	
1755-1850 MHz	MO	5M00D1D 4M00F1D 990KF1D 990KD1D 4M00D1D	1 W (ERP)	

This authorization effective May 09, 2011 and
will expire 3:00 A.M. EST March 09, 2012

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Cambridge, MA, within 2 km, centered around NL 42-36-27; WL 71-08-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1755-1850 MHz	MO	5M00F1D	1 W (ERP)	
2400-2483.5 MHz	MO	5M00D1D 4M00F1D 990KF1D 5M00F1D 990KD1D 4M00D1D	1 W (ERP)	
4400-4900 MHz	MO	5M00D1D 4M00F1D 990KF1D 990KD1D 4M00D1D 5M00F1D	1 W (ERP)	
5650-5925 MHz	MO	5M00D1D 4M00F1D 990KF1D 5M00F1D 990KD1D 4M00D1D	1.2 W (ERP)	

Special Conditions:

- (1) Assignment in frequency bands 960-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA New England Coordinator, Burlington, MA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA New England Coordinator, Burlington, MA, as necessary to ensure compatibility with existing uses.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.

Special Conditions:

- (3) 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.
- (4) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 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.
- (5) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (6) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the Air Force Rome Labs contract number FA8750-07-C-0169. 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.
- (7) Operation is subject to prior coordination with Fixed Microwave licensees.