

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

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WF2XLB

(Call Sign)

0386-EX-TC-2019

(File Number)

NAME Raytheon Company

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(c) of the Commission's Rules

Station Locations

- (1) MOBILE: Cambridge, MA, within 2 km, centered around NL 42-36-27; WL 71-08-49
- (2) MOBILE: West Point, NY, within 10 km, centered around NL 41-21-30; WL 74-01-32
- (3) MOBILE: Arlington, VA, within 1 km, centered around NL 38-52-44; WL 77-06-30

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 990KD1D 4M00D1D	1 W (ERP)	
1780-1850 MHz	MO	5M00D1D 4M00F1D 990KF1D 990KD1D	1 W (ERP)	

This authorization effective January 23, 2020 and
will expire 3:00 A.M. EST March 01, 2021

**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 (+/-)
1780-1850 MHz	MO	4M00D1D 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)	

MOBILE: West Point, NY, within 10 km, centered around NL 41-21-30; WL 74-01-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
915 MHz	MO	990KD1D	1 W (ERP)	

Frequency Information

MOBILE: West Point, NY, within 10 km, centered around NL 41-21-30; WL 74-01-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
915 MHz	MO	4M00D1D 5M00D1D 990KF1D 4M00F1D 5M00F1D	1 W (ERP)	
1432-1435 MHz	MO	990KD1D 990KF1D	1 W (ERP)	
1780-1850 MHz	MO	5M00D1D 4M00F1D 990KF1D 990KD1D 4M00D1D 5M00F1D	1 W (ERP)	
2400-2483.5 MHz	MO	990KD1D 4M00D1D 5M00D1D 990KF1D 4M00F1D 5M00F1D	1 W (ERP)	
4400-4900 MHz	MO	990KD1D 4M00D1D 5M00D1D 990KF1D 4M00F1D 5M00F1D	1 W (ERP)	

Frequency Information

MOBILE: West Point, NY, within 10 km, centered around NL 41-21-30; WL 74-01-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-5925 MHz	MO	990KD1D 4M00D1D 5M00D1D 990KF1D 4M00F1D 5M00F1D	1.2 W (ERP)	

MOBILE: Arlington, VA, within 1 km, centered around NL 38-52-44; WL 77-06-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
915 MHz	MO	4M00D1D 4M00F1D 5M00D1D 5M00F1D 990KD1D 990KF1D	1 W (ERP)	
1780-1850 MHz	MO	4M00D1D 4M00F1D 5M00D1D 5M00F1D 990KD1D 990KF1D	1 W (ERP)	
2400-2483.5 MHz	MO	4M00D1D 4M00F1D 5M00D1D 5M00F1D 990KD1D	1 W (ERP)	

Frequency Information

MOBILE: Arlington, VA, within 1 km, centered around NL 38-52-44; WL 77-06-30

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

Special Conditions:

- (1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) 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.
- (5) 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.
- (6) Operation is subject to prior coordination with Fixed Microwave licensees.

Special Conditions:

- (7) Stop buzzer is Mr. David Petersen at (617) 873-4772.
- (8) Operational system must comply with 4400-4940 MHz channel plan.