

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

EXPERIMENTAL
(Nature of Service)

WE2XQA
(Call Sign)

XT FX MO
(Class of Station)

0148-EX-RR-2012
(File Number)

NAME The Boeing 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(i) of the Commission's Rules

Station Locations

- (1) ST Louis, MO - NL 38-45-08; WL 90-20-56; MOBILE: Boeing Facility, ST Louis, MO, within 2 km, centered around NL 38-45-08; WL 90-20-56
- (2) Philadelphia, PA - NL 39-51-56; WL 75-19-20; MOBILE: Boeing Facility Ridley Park, Philadelphia, PA, within 2 km, centered around NL 39-51-56; WL 75-19-20
- (3) Columbus, GA - NL 32-20-14; WL 84-59-29; MOBILE: Fort Benning, Columbus, GA, within 20 km, centered around NL 32-20-14; WL 84-59-29
- (4) Quantico, VA - NL 38-30-13; WL 77-18-18; MOBILE: Quantico Marine Corp Airfield, Quantico, VA, within 20 km, centered around NL 38-30-13; WL 77-18-18
- (5) Aberdeen, MD - NL 39-32-06; WL 76-06-23; MOBILE: Aberdeen Proving Grounds, Aberdeen, MD, within 20 km, centered around NL 39-32-06; WL 76-06-23
- (6) ST Charles, MO - NL 38-48-20; WL 90-28-27; MOBILE: Boeing Facility, ST Charles, MO, within 3 km, centered around NL 38-48-20; WL 90-28-27
- (7) MOBILE: Bellevue, WA, within 1 km, centered around NL 47-34-52; WL 122-08-29
- (8) MOBILE: Huntsville Campus, Huntsville, AL, within 2 km, centered around NL 34-37-38; WL 86-46-36

Frequency Information

ST Louis, MO - NL 38-45-08; WL 90-20-56; MOBILE: Boeing Facility, ST Louis, MO, within 2 km, centered around NL 38-45-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	MO	5M00G1W 10M0G1W	1.53 W (ERP)	

This authorization effective August 01, 2012 and
will expire 3:00 A.M. EST August 01, 2014

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

ST Louis, MO - NL 38-45-08; WL 90-20-56; MOBILE: Boeing Facility, ST Louis, MO, within 2 km, centered around NL 38-45-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	MO	20M0G1W	1.53 W (ERP)	
420-450 MHz	FX	5M00G1W 10M0G1W 20M0G1W	1.53 W (ERP)	
2400-2483.5 MHz	MO	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
2400-2483.5 MHz	FX	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
4940-4990 MHz	FX	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
4940-4990 MHz	MO	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	

Frequency Information

Philadelphia, PA - NL 39-51-56; WL 75-19-20; MOBILE: Boeing Facility Ridley Park, Philadelphia, PA, within 2 km, centered i

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	FX	5M00G1W 10M0G1W 20M0G1W	1.53 W (ERP)	
420-450 MHz	MO	5M00G1W 10M0G1W 20M0G1W	1.53 W (ERP)	
2400-2483.5 MHz	FX	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
2400-2483.5 MHz	MO	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
4940-4990 MHz	FX	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
4940-4990 MHz	MO	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	

Frequency Information

Columbus, GA - NL 32-20-14; WL 84-59-29; MOBILE: Fort Benning, Columbus, GA, within 20 km, centered around NL 32-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	FX	5M00G1W 10M0G1W 20M0G1W	1.53 W (ERP)	
420-450 MHz	MO	5M00G1W 10M0G1W 20M0G1W	1.53 W (ERP)	
2400-2483.5 MHz	FX	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
2400-2483.5 MHz	MO	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
4940-4990 MHz	FX	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
4940-4990 MHz	MO	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	

Frequency Information

Quantico, VA - NL 38-30-13; WL 77-18-18; MOBILE: Quantico Marine Corp Airfield, Quantico, VA, within 20 km, centered arc

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	MO	5M00G1W 10M0G1W 20M0G1W	1.53 W (ERP)	
420-450 MHz	FX	5M00G1W 10M0G1W 20M0G1W	1.53 W (ERP)	
2400-2483.5 MHz	MO	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
2400-2483.5 MHz	FX	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
4940-4990 MHz	FX	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
4940-4990 MHz	MO	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	

Frequency Information

Aberdeen, MD - NL 39-32-06; WL 76-06-23; MOBILE: Aberdeen Proving Grounds, Aberdeen, MD, within 20 km, centered ar

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	MO	5M00G1W 10M0G1W 20M0G1W	1.53 W (ERP)	
420-450 MHz	FX	5M00G1W 10M0G1W 20M0G1W	1.53 W (ERP)	
2400-2483.5 MHz	MO	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
2400-2483.5 MHz	FX	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
4940-4990 MHz	FX	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
4940-4990 MHz	MO	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	

Frequency Information

ST Charles, MO - NL 38-48-20; WL 90-28-27; MOBILE: Boeing Facility, ST Charles, MO, within 3 km, centered around NL 38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-450 MHz	MO	5M00G1W 10M0G1W 20M0G1W	1.53 W (ERP)	
420-450 MHz	FX	5M00G1W 10M0G1W 20M0G1W	1.53 W (ERP)	
2400-2483.5 MHz	FX	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
2400-2483.5 MHz	MO	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
4940-4990 MHz	FX	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	
4940-4990 MHz	MO	5M00G1W 10M0G1W 20M0G1W	919 mW (ERP)	

Frequency Information

MOBILE: Bellevue, WA, within 1 km, centered around NL 47-34-52; WL 122-08-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4940-4990 MHz	MO	4M16W7D 8M23W7D 16M4W7D	919 mW (ERP)	

MOBILE: Huntsville Campus, Huntsville, AL, within 2 km, centered around NL 34-37-38; WL 86-46-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4940-4990 MHz	MO	4M16W7D 8M23W7D 16M4W7D	919 mW (ERP)	

Special Conditions:

- (1) Operation is subject to prior coordination with the Associated Public Safety Communications Officers, Inc. (APCO); ATTN: Director of Frequency Coordination; 351 North Williamson Blvd.; Daytona Beach, FL 32114-1112; Telephone: (386) 322-2500.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) 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.
- (6) Stop Buzzers, Joe Dickson (215) 478-3410 and Vince Mancuso (610) 772-6938 shall be available during testing to cease operations in the event of any interference.
- (7) Licensee is subject to coordination with the Gulf Area Frequency Coordinator located at EGLIN AFB, FL, prior to use within the area bounded by 27 N 33°30' N 83 W 90 W.
- (8) Prior to activation in Fort Benning, Columbus, GA, licensee must coordinate with GAFC coordinator, 850-882-5491.

Special Conditions:

- (9) Operation is subject to prior coordination with Fixed Microwave operators in the immediate area of the tests.