

**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)

0125-EX-PL-2008  
(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) Huntsville, AL - NL 34-37-28; WL 86-45-37; MOBILE: Boeing Facility, Huntsville, AL, within 2 km, centered around NL 34-37-28; WL 86-45-37
- (4) 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
- (5) 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
- (6) 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

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-

| Frequency   | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|-------------------------------|------------------|---------------------------|
| 420-450 MHz | MO            | 5M00G1W<br>10M0G1W<br>20M0G1W | 1.53 W (ERP)     |                           |

This authorization effective July 30, 2008 and  
will expire 3:00 A.M. EST August 01, 2010

**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     | FX            | 5M00G1W<br>10M0G1W<br>20M0G1W | 1.53 W (ERP)     |                           |
| 2400-2483.5 MHz | MO            | 5M00G1W<br>10M0G1W<br>20M0G1W | 919 mW (ERP)     |                           |
| 2400-2483.5 MHz | FX            | 5M00G1W<br>10M0G1W<br>20M0G1W | 919 mW (ERP)     |                           |
| 4940-4990 MHz   | FX            | 5M00G1W<br>10M0G1W<br>20M0G1W | 919 mW (ERP)     |                           |
| 4940-4990 MHz   | MO            | 5M00G1W<br>10M0G1W<br>20M0G1W | 919 mW (ERP)     |                           |

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

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

## Frequency Information

Huntsville, AL - NL 34-37-28; WL 86-45-37; MOBILE: Boeing Facility, Huntsville, AL, within 2 km, centered around NL 34-37-:

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

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

## Special Conditions:

- (1) 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](mailto:executivedir@sbe.org); information, [www.sbe.org](http://www.sbe.org).

**Special Conditions:**

- (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) Stop Buzzers, Anthony J Kang (636)-357-5449 and Rebecca A. Lamont (610) 809-1104 shall be available during testing to cease operations in the event of any interference.
- (6) 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.
- (7) Prior to activation in Fort Benning, Columbus, GA, licensee must coordinate with GAFC coordinator, 850-882-5491.