

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

EXPERIMENTAL  
(Nature of Service)

WE2XQV  
(Call Sign)

XT      FX MO  
(Class of Station)

0077-EX-ML-2010  
(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 Charles, MO - NL 38-41-52; WL 90-47-16; MOBILE: August A. Busch Memorial Wildlife Area, ST Charles, MO, within 10 km, centered around NL 38-41-52; WL 90-47-16
- (2) Elverson, PA - NL 40-10-30; WL 75-47-49; MOBILE: PA State Gamelands Site #43, Elverson, PA, within 10 km, centered around NL 40-10-30; WL 75-47-49
- (3) Bear, DE - NL 39-33-35; WL 75-43-07; MOBILE: Lums Pond State Park, Bear, DE, within 5 km, centered around NL 39-33-35; WL 75-43-07

Frequency Information

ST Charles, MO - NL 38-41-52; WL 90-47-16; MOBILE: August A. Busch Memorial Wildlife Area, ST Charles, MO, within 10 km

| 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            | 1.53 W (ERP)     |                           |

This authorization effective May 18, 2010 and  
will expire 3:00 A.M. EST August 01, 2010

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

ST Charles, MO - NL 38-41-52; WL 90-47-16; MOBILE: August A. Busch Memorial Wildlife Area, ST Charles, MO, within 10 I

| Frequency       | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|-------------------------------|------------------|---------------------------|
| 420-450 MHz     | MO            | 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)     |                           |

Elverson, PA - NL 40-10-30; WL 75-47-49; MOBILE: PA State Gamelands Site #43, Elverson, PA, within 10 km, centered arc

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

## Frequency Information

Elverson, PA - NL 40-10-30; WL 75-47-49; MOBILE: PA State Gamelands Site #43, Elverson, PA, within 10 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)     |                           |
| 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)     |                           |

Bear, DE - NL 39-33-35; WL 75-43-07; MOBILE: Lums Pond State Park, Bear, DE, within 5 km, centered around NL 39-33-35

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

## Frequency Information

Bear, DE - NL 39-33-35; WL 75-43-07; MOBILE: Lums Pond State Park, Bear, DE, within 5 km, centered around NL 39-33-35

| Frequency       | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|-------------------------------|------------------|---------------------------|
| 420-450 MHz     | FX            | 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)     |                           |

## 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) 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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) 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.