

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

EXPERIMENTAL  
(Nature of Service)

WF2XCK  
(Call Sign)

XT      FX MO  
(Class of Station)

0075-EX-ML-2011  
(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) Kent, WA - NL 47-25-08; WL 122-15-08; MOBILE: Kent, WA, within 8 km, centered around NL 47-25-08; WL 122-15-08
- (2) Pinnacle Peak, WA - NL 47-10-07; WL 121-58-39; MOBILE: Pinnacle Peak, WA, within 80 km, centered around NL 47-10-07; WL 121-58-39
- (3) Grass Mountain, WA - NL 47-14-52; WL 121-51-17; MOBILE: Grass Mountain, WA, within 80 km, centered around NL 47-14-52; WL 121-51-17
- (4) ST Louis, MO - NL 38-45-44; WL 90-22-00; MOBILE: St Louis, MO, within 8 km, centered around NL 38-45-44; WL 90-22-00
- (5) White Sands, NM - NL 32-56-39; WL 106-25-11; MOBILE: White Sands, NM, within 80 km, centered around NL 32-56-39; WL 106-25-11
- (6) Edwards AFB, CA - NL 34-57-03; WL 117-53-12; MOBILE: Edwards AFB, CA, within 80 km, centered around NL 34-57-03; WL 117-53-12

Frequency Information

Kent, WA - NL 47-25-08; WL 122-15-08; MOBILE: Kent, WA, within 8 km, centered around NL 47-25-08; WL 122-15-08

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 14400-14930 MHz | MO            |                     | 8.2 W (ERP)      |                           |
|                 |               | 800KG1D             |                  |                           |
|                 |               | 8M00G1D             |                  |                           |
|                 |               | 21M4G1D             |                  |                           |
|                 |               | 42M8G1D             |                  |                           |
|                 |               | 64M0G1D             |                  |                           |

This authorization effective April 19, 2011 and  
will expire 3:00 A.M. EST September 01, 2011

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Kent, WA - NL 47-25-08; WL 122-15-08; MOBILE: Kent, WA, within 8 km, centered around NL 47-25-08; WL 122-15-08

| Frequency       | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 14400-14930 MHz | MO            | 89M5G1D                                                        | 8.2 W (ERP)      |                           |
| 15150-15350 MHz | FX            | 800KG1D<br>8M00G1D<br>21M4G1D<br>42M8G1D<br>64M0G1D<br>89M5G1D | 54345 W (ERP)    |                           |

Pinnacle Peak, WA - NL 47-10-07; WL 121-58-39; MOBILE: Pinnacle Peak, WA, within 80 km, centered around NL 47-10-07

| Frequency       | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 14400-14930 MHz | MO            | 800KG1D<br>8M00G1D<br>21M4G1D<br>42M8G1D<br>64M0G1D<br>89M5G1D | 8.2 W (ERP)      |                           |
| 15150-15350 MHz | FX            | 800KG1D<br>8M00G1D<br>21M4G1D<br>42M8G1D<br>64M0G1D<br>89M5G1D | 54345 W (ERP)    |                           |

## Frequency Information

Grass Mountain, WA - NL 47-14-52; WL 121-51-17; MOBILE: Grass Mountain, WA, within 80 km, centered around NL 47-14-

| Frequency       | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 14400-14930 MHz | MO            | 800KG1D<br>8M00G1D<br>21M4G1D<br>42M8G1D<br>64M0G1D<br>89M5G1D | 8.2 W (ERP)      |                           |
| 15150-15350 MHz | FX            | 800KG1D<br>8M00G1D<br>21M4G1D<br>42M8G1D<br>64M0G1D<br>89M5G1D | 54345 W (ERP)    |                           |

ST Louis, MO - NL 38-45-44; WL 90-22-00; MOBILE: St Louis, MO, within 8 km, centered around NL 38-45-44; WL 90-22-00

| Frequency       | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 14400-14930 MHz | MO            | 800KG1D<br>8M00G1D<br>21M4G1D<br>42M8G1D<br>64M0G1D<br>89M5G1D | 8.2 W (ERP)      |                           |
| 15150-15350 MHz | FX            | 800KG1D<br>8M00G1D<br>21M4G1D<br>42M8G1D<br>64M0G1D            | 54345 W (ERP)    |                           |

## Frequency Information

ST Louis, MO - NL 38-45-44; WL 90-22-00; MOBILE: St Louis, MO, within 8 km, centered around NL 38-45-44; WL 90-22-00

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 15150-15350 MHz | FX            | 89M5G1D             | 54345 W (ERP)    |                           |

White Sands, NM - NL 32-56-39; WL 106-25-11; MOBILE: White Sands, NM, within 80 km, centered around NL 32-56-39; W

| Frequency       | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 14400-14930 MHz | MO            | 800KG1D<br>8M00G1D<br>21M4G1D<br>42M8G1D<br>64M0G1D<br>89M5G1D | 8.2 W (ERP)      |                           |

|                 |    |                                                                |               |  |
|-----------------|----|----------------------------------------------------------------|---------------|--|
| 15150-15350 MHz | FX | 800KG1D<br>8M00G1D<br>21M4G1D<br>42M8G1D<br>64M0G1D<br>89M5G1D | 54345 W (ERP) |  |
|-----------------|----|----------------------------------------------------------------|---------------|--|

Edwards AFB, CA - NL 34-57-03; WL 117-53-12; MOBILE: Edwards AFB, CA, within 80 km, centered around NL 34-57-03; V

| Frequency       | Station Class | Emission Designator                                 | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|-----------------------------------------------------|------------------|---------------------------|
| 14400-14930 MHz | MO            | 800KG1D<br>8M00G1D<br>21M4G1D<br>42M8G1D<br>64M0G1D | 8.2 W (ERP)      |                           |

## Frequency Information

Edwards AFB, CA - NL 34-57-03; WL 117-53-12; MOBILE: Edwards AFB, CA, within 80 km, centered around NL 34-57-03; V

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 14400-14930 MHz | MO            | 89M5G1D             | 8.2 W (ERP)      |                           |
| 15150-15350 MHz | FX            | 800KG1D             | 54345 W (ERP)    |                           |
|                 |               | 8M00G1D             |                  |                           |
|                 |               | 21M4G1D             |                  |                           |
|                 |               | 42M8G1D             |                  |                           |
|                 |               | 64M0G1D             |                  |                           |
|                 |               | 89M5G1D             |                  |                           |

## Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Prior to operating in the 14.47-14.5 GHz frequency band within 160 km of the radio observatories listed in US 203, licensee shall coordinate with the National Science Foundation (NSF) and notify the Commission of the results of that coordination.