

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

EXPERIMENTAL

(Nature of Service)

WI2XRW

(Call Sign)

XT      FX MO

(Class of Station)

0538-EX-CR-2018

(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(h) of the Commission's Rules

Station Locations

- (1) MOBILE: Boeing Bldg 73-60A King Air Tarmac, Berkeley, MO, within 100 km, centered around NL 38-48-20; WL 90-28-14
- (2) Union, MO - NL 38-26-00; WL 90-58-12; MOBILE: Union Walmart Parking Lot, Union, MO, within 100 km, centered around NL 38-26-00; WL 90-58-12
- (3) MOBILE: Fort Leonard Wood Area, Saint Robert, MO, within 100 km, centered around NL 37-49-29; WL 92-09-16
- (4) Jefferson City, MO - NL 38-32-31; WL 92-07-16; MOBILE: Jefferson City Area, Jefferson City, MO, within 100 km, centered around NL 38-32-31; WL 92-07-16
- (5) Vandalia (FAYETTE), IL - NL 38-57-59; WL 89-08-00; MOBILE: Vandalia Area, Vandalia, IL, within 100 km, centered around NL 38-57-59; WL 89-08-00
- (6) MOBILE: Taum Sauk Mountain area, Ironton, MO, within 100 km, centered around NL 37-34-21; WL 90-43-41
- (7) MOBILE: St. Charles County Smartt Airport area, Portage Des Sioux, MO, within 100 km, centered around NL 38-55-35; WL 90-25-25
- (8) MOBILE: 2600 N Highway 94 area, St. Charles, MO, within 100 km, centered around NL 38-45-02; WL 90-21-11

Frequency Information

MOBILE: Boeing Bldg 73-60A King Air Tarmac, Berkeley, MO, within 100 km, centered around NL 38-48-20; WL 90-28-14

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2360-2395 MHz | MO            | 495KG1D<br>989KG1D  | 2.43325 W (ERP)  |                           |

This authorization effective February 01, 2019 and  
will expire 3:00 A.M. EST October 28, 2020

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Boeing Bldg 73-60A King Air Tarmac, Berkeley, MO, within 100 km, centered around NL 38-48-20; WL 90-28-14

| Frequency     | Station Class | Emission Designator                                                                                                                                               | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------|
| 2360-2395 MHz | MO            | 1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D                       | 2.43325 W (ERP)  |                           |
| 4400-4940 MHz | MO            | 495KG1D<br>989KG1D<br>1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D | 24.33247 W (ERP) |                           |

## Frequency Information

Union, MO - NL 38-26-00; WL 90-58-12; MOBILE: Union Walmart Parking Lot, Union, MO, within 100 km, centered around NI

| Frequency     | Station Class | Emission Designator                                                                                                                                               | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------|
| 2360-2395 MHz | MO            | 495KG1D<br>989KG1D<br>1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D | 2.43325 W (ERP)  |                           |
| 4400-4940 MHz | MO            | 495KG1D<br>989KG1D<br>1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D | 24.33247 W (ERP) |                           |

## Frequency Information

MOBILE: Fort Leonard Wood Area, Saint Robert, MO, within 100 km, centered around NL 37-49-29; WL 92-09-16

| Frequency     | Station Class | Emission Designator                                                                                                                                               | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------|
| 2360-2395 MHz | MO            | 495KG1D<br>989KG1D<br>1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D | 2.43325 W (ERP)  |                           |
| 4400-4940 MHz | MO            | 495KG1D<br>989KG1D<br>1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D | 24.33247 W (ERP) |                           |

## Frequency Information

Jefferson City, MO - NL 38-32-31; WL 92-07-16; MOBILE: Jefferson City Area, Jefferson City, MO, within 100 km, centered ar

| Frequency     | Station Class | Emission Designator                                                                                                                                               | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------|
| 2360-2395 MHz | MO            | 495KG1D<br>989KG1D<br>1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D | 2.43325 W (ERP)  |                           |
| 4400-4940 MHz | MO            | 495KG1D<br>989KG1D<br>1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D | 24.33247 W (ERP) |                           |

## Frequency Information

Vandalia (FAYETTE), IL - NL 38-57-59; WL 89-08-00; MOBILE: Vandalia Area, Vandalia, IL, within 100 km, centered around N

| Frequency     | Station Class | Emission Designator                                                                                                                                               | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------|
| 2360-2395 MHz | MO            | 495KG1D<br>989KG1D<br>1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D | 2.43325 W (ERP)  |                           |
| 4400-4940 MHz | MO            | 495KG1D<br>989KG1D<br>1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D | 24.33247 W (ERP) |                           |

## Frequency Information

MOBILE: Taum Sauk Mountain area, Ironton, MO, within 100 km, centered around NL 37-34-21; WL 90-43-41

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2360-2395 MHz | MO            |                     | 2.43325 W (ERP)  |                           |
|               |               | 495KG1D             |                  |                           |
|               |               | 989KG1D             |                  |                           |
|               |               | 1M98G1D             |                  |                           |
|               |               | 3M96G1D             |                  |                           |
|               |               | 8M16G1D             |                  |                           |
|               |               | 9M66G1D             |                  |                           |
|               |               | 15M8G1D             |                  |                           |
|               |               | 19M3G1D             |                  |                           |
|               |               | 2M97G1D             |                  |                           |
|               |               | 6M12G1D             |                  |                           |
|               |               | 7M25G1D             |                  |                           |
|               |               | 11M9G1D             |                  |                           |
|               |               | 14M5G1D             |                  |                           |
|               |               | 23M2G1D             |                  |                           |
|               |               | 32M4G1D             |                  |                           |
| 4400-4940 MHz | MO            |                     | 24.33247 W (ERP) |                           |
|               |               | 495KG1D             |                  |                           |
|               |               | 989KG1D             |                  |                           |
|               |               | 1M98G1D             |                  |                           |
|               |               | 3M96G1D             |                  |                           |
|               |               | 8M16G1D             |                  |                           |
|               |               | 9M66G1D             |                  |                           |
|               |               | 15M8G1D             |                  |                           |
|               |               | 19M3G1D             |                  |                           |
|               |               | 2M97G1D             |                  |                           |
|               |               | 6M12G1D             |                  |                           |
|               |               | 7M25G1D             |                  |                           |
|               |               | 11M9G1D             |                  |                           |
|               |               | 14M5G1D             |                  |                           |
|               |               | 23M2G1D             |                  |                           |
|               |               | 32M4G1D             |                  |                           |

## Frequency Information

MOBILE: St. Charles County Smartt Airport area, Portage Des Sioux, MO, within 100 km, centered around NL 38-55-35;  
WL 90-25-25

| Frequency     | Station Class | Emission Designator                                                                                                                                               | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------|
| 2360-2395 MHz | MO            | 495KG1D<br>989KG1D<br>1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D | 2.43325 W (ERP)  |                           |
| 4400-4940 MHz | MO            | 495KG1D<br>989KG1D<br>1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D | 24.33247 W (ERP) |                           |



## Frequency Information

MOBILE: 2600 N Highway 94 area, St. Charles, MO, within 100 km, centered around NL 38-45-02; WL 90-21-11

| Frequency     | Station Class | Emission Designator                                                                                                                                               | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------|
| 2360-2395 MHz | MO            | 495KG1D<br>989KG1D<br>1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D | 2.43325 W (ERP)  |                           |
| 4400-4940 MHz | MO            | 495KG1D<br>989KG1D<br>1M98G1D<br>3M96G1D<br>8M16G1D<br>9M66G1D<br>15M8G1D<br>19M3G1D<br>2M97G1D<br>6M12G1D<br>7M25G1D<br>11M9G1D<br>14M5G1D<br>23M2G1D<br>32M4G1D | 24.33247 W (ERP) |                           |

**Special Conditions:**

- (1) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to its authorization with AFMO CONUS, Ft. Sam Houston, TX, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with AFMO CONUS, Ft. Sam Houston, TX, as necessary to ensure compatibility with existing uses.
- (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) Stop Buzzer (Primary): Lester Houston III, Desk: 314-234-0621, Mobile: 314-443-8665. Stop Buzzer (Alternate): James Belt, Desk: 314-777-9113/ Mobile: 314-614-5091.