

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

EXPERIMENTAL  
(Nature of Service)

WF2XON  
(Call Sign)

XT      FX MO  
(Class of Station)

0240-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 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, centered around NL 38-45-07; WL 90-20-59
- (2) ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 km, centered around NL 38-48-46; WL 90-28-18
- (3) Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, centered around NL 38-56-02; WL 90-25-25
- (4) Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-29; WL 89-09-58

Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, centered around NL 38-45-07; WL 90-20-59

| Frequency | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|-------------------------------|------------------|---------------------------|
| 30-73 MHz | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D | 3.05 W (ERP)     |                           |
| 30-73 MHz | FX            | 25K0F3W<br>3M50G7D            | 9.66 W (ERP)     |                           |

This authorization effective October 15, 2012 and  
will expire 3:00 A.M. EST October 01, 2014

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

| Frequency    | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|--------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 30-73 MHz    | FX            | 30M0G7D                                                                   | 9.66 W (ERP)     |                           |
| 75.4-108 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 75.4-108 MHz | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 450-470 MHz  | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 38.54 W (ERP)    |                           |
| 450-470 MHz  | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 12.19 W (ERP)    |                           |
| 450-608 MHz  | FX            | 25K0F3W<br>3M50G7D                                                        | 9.66 W (ERP)     |                           |

## Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

| Frequency        | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|------------------|---------------|-------------------------------|------------------|---------------------------|
| 450-608 MHz      | FX            | 30M0G7D                       | 9.66 W (ERP)     |                           |
| 450-608 MHz      | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D | 3.05 W (ERP)     |                           |
| 614-960 MHz      | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D | 9.66 W (ERP)     |                           |
| 614-960 MHz      | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D | 3.05 W (ERP)     |                           |
| 902-928 MHz      | FX            | 1M50G7D<br>230KG7D            | 2.89 W (ERP)     |                           |
| 902-928 MHz      | MO            | 1M50G7D<br>230KG7D            | 91 mW (ERP)      |                           |
| 1427-1525.42 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D | 9.66 W (ERP)     |                           |
| 1427-1525.42 MHz | MO            | 25K0F3W<br>3M50G7D            | 3.05 W (ERP)     |                           |

## Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

| Frequency          | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|--------------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 1427-1525.42 MHz   | MO            | 30M0G7D                                                                   | 3.05 W (ERP)     |                           |
| 1625-1660.5 MHz    | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 1.93 W (ERP)     |                           |
| 1625-1660.5 MHz    | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 61 mW (ERP)      |                           |
| 1625.42-1660.5 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 1625.42-1660.5 MHz | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 1668.4-1850 MHz    | FX            | 25K0F3W<br>455KG7D<br>466KG7D                                             | 1.93 W (ERP)     |                           |

## Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

| Frequency       | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 1668.4-1850 MHz | FX            | 1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D                                  | 1.93 W (ERP)     |                           |
| 1668.4-2500 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 1668.4-2500 MHz | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 1668.4-1850 MHz | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 61 mW (ERP)      |                           |
| 2200-2310 MHz   | FX            | 5M00G7D<br>20M0G7D                                                        | 38.54 W (ERP)    |                           |
| 2200-2310 MHz   | MO            | 5M00G7D<br>20M0G7D                                                        | 12.19 W (ERP)    |                           |

## Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

| Frequency     | Station Class | Emission Designator                                 | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-----------------------------------------------------|------------------|---------------------------|
| 2280-2310 MHz | FX            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D | 3.85 W (ERP)     |                           |
| 2280-2310 MHz | MO            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D | 1.21 W (ERP)     |                           |
| 2390-2500 MHz | FX            | 5M00G7D<br>20M0G7D                                  | 38.54 W (ERP)    |                           |
| 2390-2500 MHz | MO            | 5M00G7D<br>20M0G7D                                  | 12.19 W (ERP)    |                           |
| 2390-2550 MHz | FX            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D | 3.85 W (ERP)     |                           |
| 2390-2550 MHz | MO            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D            | 1.21 W (ERP)     |                           |

## Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

| Frequency     | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 2390-2550 MHz | MO            | 8M00G7D                                                        | 1.21 W (ERP)     |                           |
| 4400-4940 MHz | FX            | 455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 48.3 W (ERP)     |                           |
| 4400-4940 MHz | MO            | 455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 15.28 W (ERP)    |                           |
| 5250-5900 MHz | FX            | 5M00G7D<br>10M0G7D<br>20M0G7D                                  | 38.54 W (ERP)    |                           |
| 5250-5900 MHz | MO            | 5M00G7D<br>10M0G7D<br>20M0G7D                                  | 12.19 W (ERP)    |                           |
| 5250-5850 MHz | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D            | 48.3 W (ERP)     |                           |

## Frequency Information

ST Louis, MO - NL 38-45-07; WL 90-20-59; MOBILE: Ground operations at the Boeing Facility, ST Louis, MO, within 3 km, ce

| Frequency       | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 5250-5850 MHz   | FX            | 5M00G7D<br>6M40G7D                                                        | 48.3 W (ERP)     |                           |
| 5250-5850 MHz   | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 15.28 W (ERP)    |                           |
| 14400-14830 MHz | MO            | 200KG7D<br>400KG7D<br>2M00G7D<br>10M0G7D<br>21M4G7D<br>44M7G7D            | 9.16 W (ERP)     |                           |
| 15150-15350 MHz | FX            | 200KG7D<br>400KG7D<br>2M00G7D<br>10M0G7D<br>21M4G7D<br>44M7G7D            | 28.97 W (ERP)    |                           |



## Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

| Frequency    | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|--------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 30-73 MHz    | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 30-73 MHz    | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 75.4-108 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 75.4-108 MHz | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 450-470 MHz  | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 38.54 W (ERP)    |                           |
| 450-470 MHz  | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D                       | 12.19 W (ERP)    |                           |

## Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

| Frequency        | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|------------------|---------------|-------------------------------|------------------|---------------------------|
| 450-470 MHz      | MO            | 5M00G7D<br>6M40G7D            | 12.19 W (ERP)    |                           |
| 450-608 MHz      | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D | 9.66 W (ERP)     |                           |
| 450-608 MHz      | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D | 3.05 W (ERP)     |                           |
| 614-960 MHz      | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D | 9.66 W (ERP)     |                           |
| 614-960 MHz      | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D | 3.05 W (ERP)     |                           |
| 902-928 MHz      | FX            | 1M50G7D<br>230KG7D            | 2.89 W (ERP)     |                           |
| 902-928 MHz      | MO            | 1M50G7D<br>230KG7D            | 91 mW (ERP)      |                           |
| 1427-1525.42 MHz | FX            | 25K0F3W                       | 9.66 W (ERP)     |                           |

## Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

| Frequency          | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|--------------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 1427-1525.42 MHz   | FX            | 3M50G7D<br>30M0G7D                                                        | 9.66 W (ERP)     |                           |
| 1427-1525.42 MHz   | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 1625-1660.5 MHz    | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 1.93 W (ERP)     |                           |
| 1625-1660.5 MHz    | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 61 mW (ERP)      |                           |
| 1625.42-1660.5 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 1625.42-1660.5 MHz | MO            | 25K0F3W<br>3M50G7D                                                        | 3.05 W (ERP)     |                           |

## Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

| Frequency          | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|--------------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 1625.42-1660.5 MHz | MO            | 30M0G7D                                                                   | 3.05 W (ERP)     |                           |
| 1668.4-1850 MHz    | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 1.93 W (ERP)     |                           |
| 1668.4-2500 MHz    | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 1668.4-2500 MHz    | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 1668.4-1850 MHz    | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 61 mW (ERP)      |                           |
| 2200-2310 MHz      | FX            | 5M00G7D                                                                   | 38.54 W (ERP)    |                           |

## Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

| Frequency     | Station Class | Emission Designator                                 | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-----------------------------------------------------|------------------|---------------------------|
| 2200-2310 MHz | FX            | 20M0G7D                                             | 38.54 W (ERP)    |                           |
| 2200-2310 MHz | MO            | 5M00G7D<br>20M0G7D                                  | 12.19 W (ERP)    |                           |
| 2280-2310 MHz | FX            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D | 3.85 W (ERP)     |                           |
| 2280-2310 MHz | MO            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D | 1.21 W (ERP)     |                           |
| 2390-2500 MHz | FX            | 5M00G7D<br>20M0G7D                                  | 38.54 W (ERP)    |                           |
| 2390-2500 MHz | MO            | 5M00G7D<br>20M0G7D                                  | 12.19 W (ERP)    |                           |
| 2390-2550 MHz | FX            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D            | 3.85 W (ERP)     |                           |

## Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

| Frequency     | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 2390-2550 MHz | FX            | 8M00G7D                                                        | 3.85 W (ERP)     |                           |
| 2390-2550 MHz | MO            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D            | 1.21 W (ERP)     |                           |
| 4400-4940 MHz | FX            | 455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 48.3 W (ERP)     |                           |
| 4400-4940 MHz | MO            | 455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 15.28 W (ERP)    |                           |
| 5250-5900 MHz | FX            | 5M00G7D<br>10M0G7D<br>20M0G7D                                  | 38.54 W (ERP)    |                           |
| 5250-5900 MHz | MO            | 5M00G7D<br>10M0G7D                                             | 12.19 W (ERP)    |                           |

## Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

| Frequency       | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 5250-5900 MHz   | MO            | 20M0G7D                                                                   | 12.19 W (ERP)    |                           |
| 5250-5850 MHz   | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 48.3 W (ERP)     |                           |
| 5250-5850 MHz   | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 15.28 W (ERP)    |                           |
| 14400-14830 MHz | MO            | 200KG7D<br>400KG7D<br>2M00G7D<br>10M0G7D<br>21M4G7D<br>44M7G7D            | 9.16 W (ERP)     |                           |
| 15150-15350 MHz | FX            | 200KG7D<br>400KG7D<br>2M00G7D<br>10M0G7D<br>21M4G7D                       | 28.97 W (ERP)    |                           |

## Frequency Information

ST Charles, MO - NL 38-48-46; WL 90-28-18; MOBILE: Ground operations at the Boeing Facility, ST Charles, MO, within 3 k

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 15150-15350 MHz | FX            | 44M7G7D             | 28.97 W (ERP)    |                           |

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

| Frequency    | Station Class | Emission Designator                                 | Authorized Power | Frequency Tolerance (+/-) |
|--------------|---------------|-----------------------------------------------------|------------------|---------------------------|
| 30-73 MHz    | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                       | 3.05 W (ERP)     |                           |
| 30-73 MHz    | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                       | 9.66 W (ERP)     |                           |
| 75.4-108 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                       | 9.66 W (ERP)     |                           |
| 75.4-108 MHz | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                       | 3.05 W (ERP)     |                           |
| 450-470 MHz  | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D | 38.54 W (ERP)    |                           |



## Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

| Frequency   | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 450-470 MHz | FX            | 5M00G7D<br>6M40G7D                                                        | 38.54 W (ERP)    |                           |
| 450-470 MHz | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 12.19 W (ERP)    |                           |
| 450-608 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 450-608 MHz | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 614-960 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 614-960 MHz | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |

## Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

| Frequency        | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|------------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 902-928 MHz      | FX            | 1M50G7D<br>230KG7D                                                        | 2.89 W (ERP)     |                           |
| 902-928 MHz      | MO            | 1M50G7D<br>230KG7D                                                        | 91 mW (ERP)      |                           |
| 1427-1525.42 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 1427-1525.42 MHz | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 1625-1660.5 MHz  | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 1.93 W (ERP)     |                           |
| 1625-1660.5 MHz  | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D            | 61 mW (ERP)      |                           |

## Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

| Frequency          | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|--------------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 1625-1660.5 MHz    | MO            | 6M40G7D                                                                   | 61 mW (ERP)      |                           |
| 1625.42-1660.5 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 1625.42-1660.5 MHz | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 1668.4-1850 MHz    | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 1.93 W (ERP)     |                           |
| 1668.4-2500 MHz    | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 1668.4-2500 MHz    | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 1668.4-1850 MHz    | MO            | 25K0F3W                                                                   | 61 mW (ERP)      |                           |

## Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

| Frequency       | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 1668.4-1850 MHz | MO            | 455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 61 mW (ERP)      |                           |
| 2200-2310 MHz   | FX            | 5M00G7D<br>20M0G7D                                             | 38.54 W (ERP)    |                           |
| 2200-2310 MHz   | MO            | 5M00G7D<br>20M0G7D                                             | 12.19 W (ERP)    |                           |
| 2280-2310 MHz   | FX            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D            | 3.85 W (ERP)     |                           |
| 2280-2310 MHz   | MO            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D            | 1.21 W (ERP)     |                           |
| 2390-2500 MHz   | FX            | 5M00G7D<br>20M0G7D                                             | 38.54 W (ERP)    |                           |

## Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

| Frequency     | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 2390-2500 MHz | MO            | 5M00G7D<br>20M0G7D                                             | 12.19 W (ERP)    |                           |
| 2390-2550 MHz | FX            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D            | 3.85 W (ERP)     |                           |
| 2390-2550 MHz | MO            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D            | 1.21 W (ERP)     |                           |
| 4400-4940 MHz | FX            | 455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 48.3 W (ERP)     |                           |
| 4400-4940 MHz | MO            | 455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 15.28 W (ERP)    |                           |

## Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

| Frequency       | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 5250-5900 MHz   | FX            | 5M00G7D<br>10M0G7D<br>20M0G7D                                             | 38.54 W (ERP)    |                           |
| 5250-5900 MHz   | MO            | 5M00G7D<br>10M0G7D<br>20M0G7D                                             | 12.19 W (ERP)    |                           |
| 5250-5850 MHz   | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 48.3 W (ERP)     |                           |
| 5250-5850 MHz   | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 15.28 W (ERP)    |                           |
| 14400-14830 MHz | MO            | 200KG7D<br>400KG7D<br>2M00G7D<br>10M0G7D<br>21M4G7D                       | 9.16 W (ERP)     |                           |

## Frequency Information

Smartt Field, MO - NL 38-56-02; WL 90-25-25; MOBILE: Operations at the Boeing Facility, Smartt Field, MO, within 50 km, c

| Frequency       | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 14400-14830 MHz | MO            | 44M7G7D                                                        | 9.16 W (ERP)     |                           |
| 15150-15350 MHz | FX            | 200KG7D<br>400KG7D<br>2M00G7D<br>10M0G7D<br>21M4G7D<br>44M7G7D | 28.97 W (ERP)    |                           |

Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-

| Frequency    | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|--------------|---------------|-------------------------------|------------------|---------------------------|
| 30-73 MHz    | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D | 3.05 W (ERP)     |                           |
| 30-73 MHz    | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D | 9.66 W (ERP)     |                           |
| 75.4-108 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D | 9.66 W (ERP)     |                           |
| 75.4-108 MHz | MO            | 25K0F3W<br>3M50G7D            | 3.05 W (ERP)     |                           |

## Frequency Information

Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-

| Frequency    | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|--------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 75.4-108 MHz | MO            | 30M0G7D                                                                   | 3.05 W (ERP)     |                           |
| 450-470 MHz  | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 38.54 W (ERP)    |                           |
| 450-470 MHz  | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 12.19 W (ERP)    |                           |
| 450-608 MHz  | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 450-608 MHz  | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 614-960 MHz  | FX            | 25K0F3W<br>3M50G7D                                                        | 9.66 W (ERP)     |                           |



## Frequency Information

Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-

| Frequency        | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|------------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 614-960 MHz      | FX            | 30M0G7D                                                        | 9.66 W (ERP)     |                           |
| 614-960 MHz      | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                  | 3.05 W (ERP)     |                           |
| 902-928 MHz      | FX            | 1M50G7D<br>230KG7D                                             | 2.89 W (ERP)     |                           |
| 902-928 MHz      | MO            | 1M50G7D<br>230KG7D                                             | 91 mW (ERP)      |                           |
| 1427-1525.42 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                  | 9.66 W (ERP)     |                           |
| 1427-1525.42 MHz | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                  | 3.05 W (ERP)     |                           |
| 1625-1660.5 MHz  | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D | 1.93 W (ERP)     |                           |

## Frequency Information

Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-

| Frequency          | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|--------------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 1625-1660.5 MHz    | FX            | 6M40G7D                                                                   | 1.93 W (ERP)     |                           |
| 1625-1660.5 MHz    | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 61 mW (ERP)      |                           |
| 1625.42-1660.5 MHz | FX            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 9.66 W (ERP)     |                           |
| 1625.42-1660.5 MHz | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 1668.4-1850 MHz    | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 1.93 W (ERP)     |                           |
| 1668.4-2500 MHz    | FX            | 25K0F3W<br>3M50G7D                                                        | 9.66 W (ERP)     |                           |

## Frequency Information

Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-

| Frequency       | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 1668.4-2500 MHz | FX            | 30M0G7D                                                                   | 9.66 W (ERP)     |                           |
| 1668.4-2500 MHz | MO            | 25K0F3W<br>3M50G7D<br>30M0G7D                                             | 3.05 W (ERP)     |                           |
| 1668.4-1850 MHz | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 61 mW (ERP)      |                           |
| 2200-2310 MHz   | FX            | 5M00G7D<br>20M0G7D                                                        | 38.54 W (ERP)    |                           |
| 2200-2310 MHz   | MO            | 5M00G7D<br>20M0G7D                                                        | 12.19 W (ERP)    |                           |
| 2280-2310 MHz   | FX            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D                       | 3.85 W (ERP)     |                           |
| 2280-2310 MHz   | MO            | 1M25G7D                                                                   | 1.21 W (ERP)     |                           |

## Frequency Information

Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-

| Frequency     | Station Class | Emission Designator                                 | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|-----------------------------------------------------|------------------|---------------------------|
| 2280-2310 MHz | MO            | 2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D            | 1.21 W (ERP)     |                           |
| 2390-2500 MHz | FX            | 5M00G7D<br>20M0G7D                                  | 38.54 W (ERP)    |                           |
| 2390-2500 MHz | MO            | 5M00G7D<br>20M0G7D                                  | 12.19 W (ERP)    |                           |
| 2390-2550 MHz | FX            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D | 3.85 W (ERP)     |                           |
| 2390-2550 MHz | MO            | 1M25G7D<br>2M50G7D<br>6M00G7D<br>7M00G7D<br>8M00G7D | 1.21 W (ERP)     |                           |
| 4400-4940 MHz | FX            | 455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D | 48.3 W (ERP)     |                           |

## Frequency Information

Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-

| Frequency     | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 4400-4940 MHz | FX            | 6M40G7D                                                                   | 48.3 W (ERP)     |                           |
| 4400-4940 MHz | MO            | 455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D            | 15.28 W (ERP)    |                           |
| 5250-5900 MHz | FX            | 5M00G7D<br>10M0G7D<br>20M0G7D                                             | 38.54 W (ERP)    |                           |
| 5250-5900 MHz | MO            | 5M00G7D<br>10M0G7D<br>20M0G7D                                             | 12.19 W (ERP)    |                           |
| 5250-5850 MHz | FX            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D<br>3M20G7D<br>5M00G7D<br>6M40G7D | 48.3 W (ERP)     |                           |
| 5250-5850 MHz | MO            | 25K0F3W<br>455KG7D<br>466KG7D<br>1M60G7D                                  | 15.28 W (ERP)    |                           |

## Frequency Information

Vandalia, IL - NL 38-59-29; WL 89-09-58; MOBILE: Vandalia Air Field, Vandalia, IL, within 50 km, centered around NL 38-59-

| Frequency       | Station Class | Emission Designator                                            | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|----------------------------------------------------------------|------------------|---------------------------|
| 5250-5850 MHz   | MO            | 3M20G7D<br>5M00G7D<br>6M40G7D                                  | 15.28 W (ERP)    |                           |
| 14400-14830 MHz | MO            | 200KG7D<br>400KG7D<br>2M00G7D<br>10M0G7D<br>21M4G7D<br>44M7G7D | 9.16 W (ERP)     |                           |
| 15150-15350 MHz | FX            | 200KG7D<br>400KG7D<br>2M00G7D<br>10M0G7D<br>21M4G7D<br>44M7G7D | 28.97 W (ERP)    |                           |

## 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) 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).
- (4) Licensee must get consent from the existing and future Advanced Wireless Service licensees.
- (5) Licensee must get consent from Educational Broadband Services/Broadband Radio Services.
- (6) Operation is subject to prior coordinate with the existing and future Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d).

**Special Conditions:**

- (7) Operation on this assignment is subject to immediate cessation, if it causes harmful interference to Air Force and Federal Aviation Administration operations.
- (8) Operation is NOT permitted using the frequency bands 75.2-75.4 MHz, 400- 450 MHz and 5600-5650 MHz.
- (9) The use of public safety frequencies listed under rule 90.20 is prohibited.
- (10) Operation is subject to prior coordination with FAA Regional Office.
- (11) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to its authorization with Area Frequency Coordination (AFC), 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 AFC, as necessary to ensure compatibility with existing uses.
- (12) The designated point-of-contact to terminate transmissions if interference occurs is Thomas H. Rogge at (314) 232-6019.
- (13) Operation is subject to prior coordination with Aerospace and Flight Test Radio Coordinating Council before submitted for renewal.
- (14) Operation is NOT PERMITTED using the frequency band 756-776 MHz and 788-806 MHz.