

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

EXPERIMENTAL  
(Nature of Service)

WF2XFY  
(Call Sign)

XT      FX  
(Class of Station)

0376-EX-RR-2016  
(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) Thurmont, MD - NL 39-32-41; WL 77-22-16
- (2) Germantown, MD - NL 39-12-07; WL 77-15-46
- (3) Germantown, MD - NL 39-13-16; WL 77-13-23

Frequency Information

Thurmont, MD - NL 39-32-41; WL 77-22-16

| Frequency    | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|--------------|---------------|---------------------|------------------|---------------------------|
| 20.01-72 MHz | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 76-108 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 137-225 MHz  | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 400-608 MHz  | FX            | 10K0F0N             | 1 mW (ERP)       |                           |

This authorization effective November 01, 2016 and  
will expire 3:00 A.M. EST November 01, 2018

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Thurmont, MD - NL 39-32-41; WL 77-22-16

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 614-960 MHz     | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 1427-1559 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 1610-1660.5 MHz | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 1668.4-2690 MHz | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 2900-3650 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 3700-4990 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 3700-4200 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 4400-4990 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 5250-6000 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 5250-5600 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |

## Frequency Information

Thurmont, MD - NL 39-32-41; WL 77-22-16

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 5650-6000 MHz | FX            | 10K0F0N             | 1 mW (ERP)       |                           |

Germantown, MD - NL 39-12-07; WL 77-15-46

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 20.01-72 MHz    | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 76-108 MHz      | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 137-225 MHz     | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 400-608 MHz     | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 614-960 MHz     | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 1427-1559 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 1610-1660.5 MHz | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 1668.4-2690 MHz | FX            | 10K0F0N             | 1 mW (ERP)       |                           |

## Frequency Information

Germantown, MD - NL 39-12-07; WL 77-15-46

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2900-3650 MHz | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 3700-4200 MHz | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 4400-4990 MHz | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 5650-6000 MHz | FX            | 10K0F0N             | 1 mW (ERP)       |                           |

Germantown, MD - NL 39-13-16; WL 77-13-23

| Frequency    | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|--------------|---------------|---------------------|------------------|---------------------------|
| 20.01-72 MHz | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 76-108 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 137-225 MHz  | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 400-608 MHz  | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 614-960 MHz  | FX            | 10K0F0N             | 1 mW (ERP)       |                           |

## Frequency Information

Germantown, MD - NL 39-13-16; WL 77-13-23

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 1427-1559 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 1610-1660.5 MHz | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 1668.4-2690 MHz | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 2900-3650 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 3700-4200 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 4400-4990 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 5250-5600 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |
| 5650-6000 MHz   | FX            | 10K0F0N             | 1 mW (ERP)       |                           |

## Special Conditions:

- (1) This frequency assignment in one of the bands 1435-1535 or 2310-2390 MHz was coordinated prior to authorization with the Mid-Atlantic Area Frequency Coordinator (AFC), Patuxent River, MD, 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 the AFC as necessary to ensure compatibility with existing uses.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

**Special Conditions:**

- (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) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 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).
- (5) Operation must get consents from Educational Broadband Service, Broadband Radio Service, and Advanced Wireless Service licensees in the applicable geographic areas.
- (6) Operation is subject to prior coordination with Fixed Microwave licensees in the immediate test site areas to prevent possible interference with fixed point to point paths and with possible Temporary Fixed/Mobile point-to-point paths.
- (7) Operation is NOT PERMITTED in the frequency bands: 20-20.01 MHz, 24.99-25.01 MHz, 406-406.1 MHz, 410.2375-410.2625 MHz, 410.2785-410.3125 MHz, 756-775 MHz, 778-805 MHz, 1559-1563 MHz, 1588-1610 MHz, 4200-4400 MHz, and 5600-5650 MHz.
- (8) The designated point-of-contact to terminate transmissions if interference occurs is Steven J. Hudson, 301-944-9578.
- (9) Licensee must prior coordination with Aerospace and Flight Test Radio Coordinating Council (AFTRCC) and Mid-Atlantic Area Frequency Coordinator before applying for renewal.