

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WF2XFY

(Call Sign)

0101-EX-ML-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) Thurmond, MD - NL 39-32-41; WL 77-22-16
- (2) Germantown, MD - NL 39-11-18; WL 77-15-42
- (3) Germantown, MD - NL 39-12-07; WL 77-15-46

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20.00000000-72.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
76.00000000-108.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
137.00000000-225.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
400.00000000-608.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	

This authorization effective November 02, 2012 and
will expire 3:00 A.M. EST November 29, 2012

**FEDERAL
COMMUNICATIONS
COMMISSION**

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
614.00000000-960.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
1427.00000000-1559.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
1610.00000000-1660.50000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
1668.40000000-2690.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
2900.00000000-3650.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
3700.00000000-4200.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
4400.00000000-4990.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
5250.00000000-5600.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
5650.00000000-6000.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	

Frequency Information

Germantown, MD - NL 39-11-18; WL 77-15-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20.00000000-72.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
76.00000000-108.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
137.00000000-225.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
400.00000000-608.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
614.00000000-960.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
1427.00000000-1559.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
1610.00000000-1660.50000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
1668.40000000-2690.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
2900.00000000-3650.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
3700.00000000-4200.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	

Frequency Information

Germantown, MD - NL 39-11-18; WL 77-15-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400.00000000-4990.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
5250.00000000-5600.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
5650.00000000-6000.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20.01000000-72.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
76.00000000-108.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
137.00000000-225.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
400.00000000-608.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
614.00000000-960.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
1427.00000000-1559.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1610.00000000-1660.50000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
1668.40000000-2690.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
2900.00000000-3650.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
3700.00000000-4200.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
4400.00000000-4990.00000000 MHz	FX	10K0F0N	1.000000 mW (ERP)	
5650.00000000-6000.00000000 MHz	FX	10K0F0N	1.000000 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.
- (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; information, 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.

Special Conditions:

- (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, 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 Bill Brown at (301) 944-9271.
- (9) Licensee must prior coordination with Aerospace and Flight Test Radio Coordinating Council (AFTRCC) and Mid-Atlantic Area Frequency Coordinator before applying for renewal.
- (10) Renewal of this license is subject to prior coordination with the Aerospace and Flight Test Radio Coordinating Council.