

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

EXPERIMENTAL
(Nature of Service)

WG2XEB
(Call Sign)

XT FX
(Class of Station)

0037-EX-ML-2013
(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) Seattle (KING), WA - NL 47-31-56; WL 122-18-58
- (2) Everett (KING), WA - NL 47-54-23; WL 122-16-54

Frequency Information

Seattle (KING), WA - NL 47-31-56; WL 122-18-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
400-756 MHz	FX	NON	10 uW (ERP)	
806-1166 MHz	FX	NON	10 uW (ERP)	
1186-1212.255 MHz	FX	NON	10 uW (ERP)	
1242.945-1375.75 MHz	FX	NON	10 uW (ERP)	

This authorization effective September 13, 2013 and
will expire 3:00 A.M. EST July 20, 2014

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Seattle (KING), WA - NL 47-31-56; WL 122-18-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1386.05-1400 MHz	FX	N0N	10 uW (ERP)	
1427-1434 MHz	FX	N0N	10 uW (ERP)	
1526-1549 MHz	FX	N0N	10 uW (ERP)	
1549.6-1559 MHz	FX	N0N	10 uW (ERP)	
1610-1660.5 MHz	FX	N0N	10 uW (ERP)	
1668.5-2309 MHz	FX	N0N	10 uW (ERP)	
2321-2344 MHz	FX	N0N	10 uW (ERP)	
2391-2690 MHz	FX	N0N	10 uW (ERP)	
2700-3649 MHz	FX	N0N	10 uW (ERP)	
3701-4990 MHz	FX	N0N	10 uW (ERP)	

Frequency Information

Seattle (KING), WA - NL 47-31-56; WL 122-18-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5000-10680 MHz	FX	N0N	10 uW (ERP)	
10700-15350 MHz	FX	N0N	10 uW (ERP)	
15400-23600 MHz	FX	N0N	10 uW (ERP)	
24000-26000 MHz	FX	N0N	10 uW (ERP)	

Everett (KING), WA - NL 47-54-23; WL 122-16-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
400-756 MHz	FX	N0N	10 uW (ERP)	
806-1166 MHz	FX	N0N	10 uW (ERP)	
1186-1212.255 MHz	FX	N0N	10 uW (ERP)	
1242.945-1375.75 MHz	FX	N0N	10 uW (ERP)	
1386.05-1400 MHz	FX	N0N	10 uW (ERP)	

Frequency Information

Everrett (KING), WA - NL 47-54-23; WL 122-16-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1427-1434 MHz	FX	N0N	10 uW (ERP)	
1526-1549 MHz	FX	N0N	10 uW (ERP)	
1549.6-1559 MHz	FX	N0N	10 uW (ERP)	
1610-1660.5 MHz	FX	N0N	10 uW (ERP)	
1668.5-2309 MHz	FX	N0N	10 uW (ERP)	
2321-2344 MHz	FX	N0N	10 uW (ERP)	
2391-2690 MHz	FX	N0N	10 uW (ERP)	
2700-3649 MHz	FX	N0N	10 uW (ERP)	
3701-4990 MHz	FX	N0N	10 uW (ERP)	
5000-10680 MHz	FX	N0N	10 uW (ERP)	

Frequency Information

Everett (KING), WA - NL 47-54-23; WL 122-16-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10700-15350 MHz	FX	N0N	10 uW (ERP)	
15400-23600 MHz	FX	N0N	10 uW (ERP)	
24000-26000 MHz	FX	N0N	10 uW (ERP)	

Special Conditions:

- (1) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (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 in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.
- (5) Assignment in frequency band 960-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Northwest Coordinator, Seattle, WA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Northwest Coordinator, Seattle, WA, as necessary to ensure compatibility with existing uses.

Special Conditions:

- (6) Operation is NOT permitted the following frequencies and the frequency bands:
- 406 - 406.1 MHz
 - 408.675 MHz +/- 6 kHz
 - 410.625 MHz +/- 6 kHz
 - 608 - 614 MHz
 - 756-806 MHz
 - 977-979 MHz
 - 1166 -1186 MHz
 - 1212.255 - 1242.945 MHz
 - 1375.75 - 1386.05 MHz
 - 1400 - 1427 MHz
 - 1549.4 - 1549.6 MHz
 - 1559 - 1610 MHz
 - 1660.5 - 1668.4 MHz
 - 1699.83-1709.67 MHz
 - 2200-2290 MHz
 - 4200-4400 MHz
 - 4990 - 5000 MHz
 - 10.68 - 10.7 GHz
 - 15.35 - 15.4 GHz
 - 23.6 - 24 GHz
- (7) The designated point-of-contact to terminate transmissions if interference occurs is Jason Bommer at 206-544-7515.
- (8) Licensee must get consent from Sirius XM Radio, Inc. prior to operate the frequency 2320-2345 MHz.
- (9) Licensee must get consent from Educational Broadband Service / Broadband Radio Service licensees prior conducting the test in 2500-2690 MHz.
- (10) Licensee must obtain consent from Advanced Wireless Service licensees prior to conducting the tests in 1710-1775MHz, 1915-1920 MHz, 1955-2000MHz, 2020-2025MHz, and 2110-2180MHz.
- (11) Operation is subject to coordinate with the local Society Broadcast Engineers, Inc. coordinator prior to performing the tests in the rest of the proposed frequency bands.
- (12) Prior to operation the frequency bands 3701-4990 MHz and 5000-10680 MHz, licensee must coordinate with Navy and Marine Corps Spectrum Office (NMSCO) Northwest at 360-396-7075.
- (13) Prior to operation the frequency band 15400-23600 MHz, licensee must coordinate with Western Area Frequency Coordinator (760) 939-6948.
- (14) Operation is subject to prior coordination with FAA Northwest Regional Office, 1601 Lind Avenue, S.W. Renton, Washington 98055, and PH: 206-227-2464.