

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

EXPERIMENTAL

(Nature of Service)

WE2XQF

(Call Sign)

XT FX MO

(Class of Station)

0127-EX-ML-2011

(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(d) of the Commission's Rules

Station Locations

- (1) ST LOUIS, MO - NL 38-45-04; WL 90-21-24; MOBILE: ST LOUIS, MO. Surface to 50,000 feet, within 402.34 km
- (2) WICHITA, KS - NL 37-37-39; WL 97-16-40; MOBILE: WICHITA, KS. Surface to 50,000 feet, within 402.34 km, centered around NL 37-37-39; WL 97-16-40
- (3) SEATTLE, WA - NL 47-32-21; WL 122-18-44; MOBILE: SEATTLE, WA. Surface to 50,000 feet, within 402.34 km, centered around NL 47-32-21; WL 122-18-44
- (4) EVERETT, WA - NL 47-55-32; WL 122-16-28; MOBILE: EVERETT, WA. Surface to 50,000 feet, within 402.34 km, centered around NL 47-55-32; WL 122-16-28
- (5) RENTON, WA - NL 47-29-54; WL 122-13-06; MOBILE: RENTON, WA. Surface to 50,000 feet, within 402.34 km, centered around NL 47-29-54; WL 122-13-06
- (6) WEST TIGER MOUNTAIN, WA - NL 47-30-16; WL 121-58-20; MOBILE: WEST TIGER MOUNTAIN, WA. Surface to 50,000 feet, within 402.34 km, centered around NL 47-30-16; WL 121-58-20
- (7) MOSES LAKE, WA - NL 47-12-07; WL 119-17-54; MOBILE: MOSES LAKE, WA. Surface to 50,000 feet, within 402.34 km, centered around NL 47-12-07; WL 119-17-54
- (8) GLASGOW, MT - NL 48-25-21; WL 106-32-10; MOBILE: GLASGOW, MT. Surface to 50,000 feet, within 402.34 km, centered around NL 48-25-21; WL 106-32-10

This authorization effective May 12, 2011 and
will expire 3:00 A.M. EST December 31, 2011

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

ST LOUIS, MO - NL 38-45-04; WL 90-21-24; MOBILE: ST LOUIS, MO. Surface to 50,000 feet, within 402.34 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2167 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.2167 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.225 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.225 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.25 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.25 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %

Frequency Information

ST LOUIS, MO - NL 38-45-04; WL 90-21-24; MOBILE: ST LOUIS, MO. Surface to 50,000 feet, within 402.34 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.25 MHz	MO	6K00A3E	20 W (ERP)	0.0005 %
136.2583 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2583 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %

WICHITA, KS - NL 37-37-39; WL 97-16-40; MOBILE: WICHITA, KS. Surface to 50,000 feet, within 402.34 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2167 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2167 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.225 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.225 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %

Frequency Information

WICHITA, KS - NL 37-37-39; WL 97-16-40; MOBILE: WICHITA, KS. Surface to 50,000 feet, within 402.34 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2333 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.25 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.25 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2583 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2583 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %

SEATTLE, WA - NL 47-32-21; WL 122-18-44; MOBILE: SEATTLE, WA. Surface to 50,000 feet, within 402.34 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2167 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %

Frequency Information

SEATTLE, WA - NL 47-32-21; WL 122-18-44; MOBILE: SEATTLE, WA. Surface to 50,000 feet, within 402.34 km, centered a

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2167 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.225 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.225 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.25 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.25 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %

Frequency Information

SEATTLE, WA - NL 47-32-21; WL 122-18-44; MOBILE: SEATTLE, WA. Surface to 50,000 feet, within 402.34 km, centered a

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2583 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2583 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %

EVERETT, WA - NL 47-55-32; WL 122-16-28; MOBILE: EVERETT, WA. Surface to 50,000 feet, within 402.34 km, centered a

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2167 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2167 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.225 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.225 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %

Frequency Information

EVERETT, WA - NL 47-55-32; WL 122-16-28; MOBILE: EVERETT, WA. Surface to 50,000 feet, within 402.34 km, centered at

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2417 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.25 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.25 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2583 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2583 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %

RENTON, WA - NL 47-29-54; WL 122-13-06; MOBILE: RENTON, WA. Surface to 50,000 feet, within 402.34 km, centered at

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2167 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2167 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.225 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %

Frequency Information

RENTON, WA - NL 47-29-54; WL 122-13-06; MOBILE: RENTON, WA. Surface to 50,000 feet, within 402.34 km, centered at

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.225 MHz	FX	6K00A3E	50 W (ERP)	0.0001 %
136.225 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.25 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.25 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2583 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %

Frequency Information

RENTON, WA - NL 47-29-54; WL 122-13-06; MOBILE: RENTON, WA. Surface to 50,000 feet, within 402.34 km, centered at

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2583 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %

WEST TIGER MOUNTAIN, WA - NL 47-30-16; WL 121-58-20; MOBILE: WEST TIGER MOUNTAIN, WA. Surface to 50,000 f

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2167 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2167 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.225 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.225 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %

Frequency Information

WEST TIGER MOUNTAIN, WA - NL 47-30-16; WL 121-58-20; MOBILE: WEST TIGER MOUNTAIN, WA. Surface to 50,000 f

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2417 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.25 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.25 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2583 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2583 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %

MOSES LAKE, WA - NL 47-12-07; WL 119-17-54; MOBILE: MOSES LAKE, WA. Surface to 50,000 feet, within 402.34 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2167 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2167 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.225 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %

Frequency Information

MOSES LAKE, WA - NL 47-12-07; WL 119-17-54; MOBILE: MOSES LAKE, WA. Surface to 50,000 feet, within 402.34 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.225 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.25 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.25 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2583 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2583 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %

Frequency Information

GLASGOW, MT - NL 48-25-21; WL 106-32-10; MOBILE: GLASGOW, MT. Surface to 50,000 feet, within 402.34 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.2167 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2167 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.225 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.225 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	MO	5K00A3E 6K00A3E	20 W (ERP)	0.0005 %
136.2333 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2417 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %
136.25 MHz	FX	5K00A3E 6K00A3E	50 W (ERP)	0.0001 %
136.25 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %

Frequency Information

GLASGOW, MT - NL 48-25-21; WL 106-32-10; MOBILE: GLASGOW, MT. Surface to 50,000 feet, within 402.34 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
136.25 MHz	MO	6K00A3E	20 W (ERP)	0.0005 %
136.2583 MHz	FX	5K00A3E	50 W (ERP)	0.0001 %
136.2583 MHz	MO	5K00A3E	20 W (ERP)	0.0005 %

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.