

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

EXPERIMENTAL
(Nature of Service)

WE2XQC
(Call Sign)

XT MO
(Class of Station)

0164-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) MOBILE: Grant County International Airport, Moses Lake, WA, within 40 km, centered around NL 47-12-30; WL 119-19-08
- (2) MOBILE: Glasgow Industrial Airport, Glasgow, MT, within 40 km, centered around NL 48-25-18; WL 106-31-42
- (3) MOBILE: Klamath Falls Airport, Klamath Falls, OR, within 40 km, centered around NL 42-09-22; WL 121-43-59
- (4) MOBILE: Temporary Fixed, Aircraft on the Ground, Everett, WA, within 1 km, centered around NL 47-54-22; WL 122-16-53
- (5) MOBILE: Temporary Fixed, Aircraft on the Ground, Seattle, WA, within 1 km, centered around NL 47-31-48; WL 122-18-07
- (6) MOBILE: Temporary Fixed, Aircraft on the Ground, Renton, WA, within 1 km, centered around NL 47-29-35; WL 122-12-56
- (7) MOBILE: Rectangular area bounded by 48N Lat, 38N Lat, 125 30W Long, 128 30W Long.
- (8) MOBILE: Marana Air Park, Marana, AZ, within 40 km, centered around NL 32-30-42; WL 111-19-11

Frequency Information

MOBILE: Grant County International Airport, Moses Lake, WA, within 40 km, centered around NL 47-12-30; WL 119-19-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	MO	NON	1 uW (ERP)	0.001 %

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Grant County International Airport, Moses Lake, WA, within 40 km, centered around NL 47-12-30; WL 119-19-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	MO	10M0P0N	1 uW (ERP)	0.001 %
832-894 MHz	MO	N0N 25M0P0N	0.224 uW (ERP)	0.001 %
915-960 MHz	MO	N0N 45M0P0N	0.178 uW (ERP)	0.001 %
1710-1755 MHz	MO	200KG7W	1 W (ERP)	0.001 %
1850-1880 MHz	MO	N0N	0.2 uW (ERP)	0.001 %
1850-1880 MHz	MO	N0N	7586 pW (ERP)	0.001 %
1850-1880 MHz	MO	30M0P0N	0.2 uW (ERP)	0.001 %
1850-1880 MHz	MO	200KG7W	7586 pW (ERP)	0.001 %
1930-1990 MHz	MO	N0N	0.12 uW (ERP)	0.001 %
1930-1990 MHz	MO	N0N	4467 pW (ERP)	0.001 %

Frequency Information

MOBILE: Grant County International Airport, Moses Lake, WA, within 40 km, centered around NL 47-12-30; WL 119-19-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1990 MHz	MO	60M0P0N	0.12 uW (ERP)	0.001 %
1930-1990 MHz	MO	200KG7W	4467 pW (ERP)	0.001 %
2110-2170 MHz	MO	N0N 60M0P0N	0.24 uW (ERP)	0.001 %

MOBILE: Glasgow Industrial Airport, Glasgow, MT, within 40 km, centered around NL 48-25-18; WL 106-31-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	MO	N0N 10M0P0N	1 uW (ERP)	0.001 %
832-894 MHz	MO	N0N 25M0P0N	0.224 uW (ERP)	0.001 %
915-960 MHz	MO	N0N 45M0P0N	0.178 uW (ERP)	0.001 %
1710-1755 MHz	MO	200KG7W	1 W (ERP)	0.001 %
1850-1880 MHz	MO	N0N	0.2 uW (ERP)	0.001 %

Frequency Information

MOBILE: Glasgow Industrial Airport, Glasgow, MT, within 40 km, centered around NL 48-25-18; WL 106-31-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1880 MHz	MO	N0N	7586 pW (ERP)	0.001 %
1850-1880 MHz	MO	30M0P0N	0.2 uW (ERP)	0.001 %
1850-1880 MHz	MO	200KG7W	7586 pW (ERP)	0.001 %
1930-1990 MHz	MO	N0N	0.12 uW (ERP)	0.001 %
1930-1990 MHz	MO	N0N	4467 pW (ERP)	0.001 %
1930-1990 MHz	MO	60M0P0N	0.12 uW (ERP)	0.001 %
1930-1990 MHz	MO	200KG7W	4467 pW (ERP)	0.001 %
2110-2170 MHz	MO	N0N 60M0P0N	0.24 uW (ERP)	0.001 %

MOBILE: Klamath Falls Airport, Klamath Falls, OR, within 40 km, centered around NL 42-09-22; WL 121-43-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	MO	N0N	1 uW (ERP)	0.001 %

Frequency Information

MOBILE: Klamath Falls Airport, Klamath Falls, OR, within 40 km, centered around NL 42-09-22; WL 121-43-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	MO	10M0P0N	1 uW (ERP)	0.001 %
832-894 MHz	MO	N0N 25M0P0N	0.224 uW (ERP)	0.001 %
915-960 MHz	MO	N0N 45M0P0N	0.178 uW (ERP)	0.001 %
1710-1755 MHz	MO	200KG7W	1 W (ERP)	0.001 %
1850-1880 MHz	MO	N0N	0.2 uW (ERP)	0.001 %
1850-1880 MHz	MO	N0N	7586 pW (ERP)	0.001 %
1850-1880 MHz	MO	75M0P0N	0.2 uW (ERP)	0.001 %
1850-1880 MHz	MO	200KG7W	7586 pW (ERP)	0.001 %
1930-1990 MHz	MO	N0N	0.12 uW (ERP)	0.001 %
1930-1990 MHz	MO	N0N	4467 pW (ERP)	0.001 %

Frequency Information

MOBILE: Klamath Falls Airport, Klamath Falls, OR, within 40 km, centered around NL 42-09-22; WL 121-43-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1990 MHz	MO	60M0P0N	0.12 uW (ERP)	0.001 %
1930-1990 MHz	MO	200KG7W	4467 pW (ERP)	0.001 %
2110-2170 MHz	MO	N0N 60M0P0N	0.24 uW (ERP)	0.001 %

MOBILE: Temporary Fixed, Aircraft on the Ground, Everett, WA, within 1 km, centered around NL 47-54-22; WL 122-16-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1755 MHz	MO	200KG7W	1 W (ERP)	0.001 %
1850-1880 MHz	MO	N0N 200KG7W	7586 pW (ERP)	0.001 %
1930-1990 MHz	MO	N0N 200KG7W	4467 pW (ERP)	0.001 %

Frequency Information

MOBILE: Temporary Fixed, Aircraft on the Ground, Seattle, WA, within 1 km, centered around NL 47-31-48; WL 122-18-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1755 MHz	MO	200KG7W	1 W (ERP)	0.001 %
1850-1880 MHz	MO	N0N 200KG7W	7586 pW (ERP)	0.001 %
1930-1990 MHz	MO	N0N 200KG7W	4467 pW (ERP)	0.001 %

MOBILE: Temporary Fixed, Aircraft on the Ground, Renton, WA, within 1 km, centered around NL 47-29-35; WL 122-12-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1755 MHz	MO	200KG7W	1 W (ERP)	0.001 %
1850-1880 MHz	MO	N0N 200KG7W	7586 pW (ERP)	0.001 %
1930-1990 MHz	MO	N0N 200KG7W	4467 pW (ERP)	0.001 %

MOBILE: Rectangular area bounded by 48N Lat, 38N Lat, 125 30W Long, 128 30W Long.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	MO	N0N	1 uW (ERP)	0.001 %

Frequency Information

MOBILE: Rectangular area bounded by 48N Lat, 38N Lat, 125 30W Long, 128 30W Long.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	MO	10M0P0N	1 uW (ERP)	0.001 %
832-894 MHz	MO	N0N 25M0P0N	0.224 uW (ERP)	0.001 %
915-960 MHz	MO	N0N 45M0P0N	0.178 uW (ERP)	0.001 %
1710-1755 MHz	MO	200KG7W	1 W (ERP)	0.001 %
1850-1880 MHz	MO	N0N	0.2 uW (ERP)	0.001 %
1850-1880 MHz	MO	N0N	7586 pW (ERP)	0.001 %
1850-1880 MHz	MO	30M0P0N	0.2 uW (ERP)	0.001 %
1850-1880 MHz	MO	200KG7W	7586 pW (ERP)	0.001 %
1930-1990 MHz	MO	N0N	4467 pW (ERP)	0.001 %
1930-1990 MHz	MO	N0N	0.12 uW (ERP)	0.001 %

Frequency Information

MOBILE: Rectangular area bounded by 48N Lat, 38N Lat, 125 30W Long, 128 30W Long.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1990 MHz	MO	200KG7W	4467 pW (ERP)	0.001 %
1930-1990 MHz	MO	60M0P0N	0.12 uW (ERP)	0.001 %
2110-2170 MHz	MO	N0N 60M0P0N	0.24 uW (ERP)	0.001 %

MOBILE: Marana Air Park, Marana, AZ, within 40 km, centered around NL 32-30-42; WL 111-19-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-470 MHz	MO	N0N 10M0P0N	1 uW (ERP)	0.001 %
832-894 MHz	MO	N0N 25M0P0N	0.224 uW (ERP)	0.001 %
915-960 MHz	MO	N0N 45M0P0N	0.178 uW (ERP)	0.001 %
1710-1755 MHz	MO	200KG7W	1 W (ERP)	0.001 %
1850-1880 MHz	MO	N0N	0.2 uW (ERP)	0.001 %

Frequency Information

MOBILE: Marana Air Park, Marana, AZ, within 40 km, centered around NL 32-30-42; WL 111-19-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1880 MHz	MO	N0N	7586 pW (ERP)	0.001 %
1850-1880 MHz	MO	30M0P0N	0.2 uW (ERP)	0.001 %
1850-1880 MHz	MO	200KG7W	7586 pW (ERP)	0.001 %
1930-1990 MHz	MO	N0N	0.12 uW (ERP)	0.001 %
1930-1990 MHz	MO	N0N	4467 pW (ERP)	0.001 %
1930-1990 MHz	MO	60M0P0N	0.12 uW (ERP)	0.001 %
1930-1990 MHz	MO	200KG7W	4467 pW (ERP)	0.001 %
2110-2170 MHz	MO	N0N 60M0P0N	0.24 uW (ERP)	0.001 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) Operation in the 1710-1755 MHz band is performed on the ground, in which case requires notification to Advanced Wireless Services licensees within 15 km around each test site is necessary.

Special Conditions:

- (4) Any operation in the 1850-1990 MHz and 2130-2200 MHz band must be coordinated with the existing and future users within 15 km around each test site to avoid interference.
- (5) The designated point-of-contact to terminate transmissions if interference occurs is Loren Ayotte at 425-647-5011.
- (6) Operation is NOT permitted on the frequency bands 1755-1785 MHz and 1805-1850 MHz due to potential interference to federal operations.