

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WE2XCF

(Call Sign)

0054-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(d g) of the Commission's Rules

Station Locations

- (1) MOBILE: Southern California Coastal Waters, CA
- (2) MOBILE: Edwards Air Force Base, CA, within 48 km, centered around NL 34-49-30; WL 117-49-22
- (3) MOBILE: Gulf of Mexico Coastal Waters, TX
- (4) MOBILE: Victorville Airport, Victorville, CA, within 48 km, centered around NL 34-35-16; WL 117-22-31
- (5) MOBILE: Houston, TX, within 48 km, centered around NL 29-36-22; WL 95-08-34
- (6) MOBILE: Long Beach, CA, within 10 km, centered around NL 33-49-38; WL 118-09-05
- (7) MOBILE: Vandalia Airport, Vandalia, IL, within 32 km, centered around NL 38-59-30; WL 89-10-00
- (8) MOBILE: Fort Leonard Wood, MO, within 32 km, centered around NL 37-44-30; WL 92-08-30
- (9) MOBILE: ST Charles, MO, within 32 km, centered around NL 38-55-35; WL 90-25-23
- (10) MOBILE: Galveston Bay and surrounding coastal waters, Galveston, TX, within 50 km, centered around NL 29-21-11; WL 94-44-28
- (11) MOBILE: Eglin AFB, FL, within 40 km, centered around NL 30-29-12; WL 86-30-30
- (12) MOBILE: Valmeyer, IL, within 32 km, centered around NL 38-18-11; WL 90-18-16
- (13) MOBILE: Pacific, MO, within 32 km, centered around NL 38-29-07; WL 90-43-56
- (14) MOBILE: Warrenton, MO, within 32 km, centered around NL 38-44-56; WL 91-06-54
- (15) MOBILE: Fort Irwin, CA, within 48 km, centered around NL 35-15-46; WL 116-41-02
- (16) MOBILE: Operations over water in the Gulf of Mexico, GM
- (17) MOBILE: Huntington Beach, CA, within 20 km, centered around NL 33-44-53; WL 118-02-14
- (18) MOBILE: 10,000 Ft Flight Level, San Diego, CA, within 100 km, centered around NL 33-25-24; WL 117-17-42

This authorization effective April 25, 2013 and
will expire 3:00 A.M. EST July 01, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**

Station Locations

- (19) MOBILE: 10,000 Foot Flight Level, San Francisco, CA, within 100 km, centered around
NL 36-46-42; WL 122-25-10
- (20) MOBILE: 10,000 Foot Flight Level, Puget Sound, WA, within 200 km, centered around
NL 48-07-13; WL 123-29-59

Frequency Information

MOBILE: Southern California Coastal Waters, CA

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

MOBILE: Edwards Air Force Base, CA, within 48 km, centered around NL 34-49-30; WL 117-49-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

MOBILE: Gulf of Mexico Coastal Waters, TX

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

MOBILE: Victorville Airport, Victorville, CA, within 48 km, centered around NL 34-35-16; WL 117-22-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

Frequency Information

MOBILE: Houston, TX, within 48 km, centered around NL 29-36-22; WL 95-08-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

MOBILE: Long Beach, CA, within 10 km, centered around NL 33-49-38; WL 118-09-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

MOBILE: Vandalia Airport, Vandalia, IL, within 32 km, centered around NL 38-59-30; WL 89-10-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	54954.000000 W (ERP)	0.00100000 %

MOBILE: Fort Leonard Wood, MO, within 32 km, centered around NL 37-44-30; WL 92-08-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	54954.000000 W (ERP)	0.00100000 %

Frequency Information

MOBILE: ST Charles, MO, within 32 km, centered around NL 38-55-35; WL 90-25-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	54954.000000 W (ERP)	0.00100000 %

MOBILE: Galveston Bay and surrounding coastal waters, Galveston, TX, within 50 km, centered around NL 29-21-11; WL 94-44-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

MOBILE: Eglin AFB, FL, within 40 km, centered around NL 30-29-12; WL 86-30-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

MOBILE: Valmeyer, IL, within 32 km, centered around NL 38-18-11; WL 90-18-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	54954.000000 W (ERP)	0.00100000 %

Frequency Information

MOBILE: Pacific, MO, within 32 km, centered around NL 38-29-07; WL 90-43-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

MOBILE: Warrenton, MO, within 32 km, centered around NL 38-44-56; WL 91-06-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

MOBILE: Fort Irwin, CA, within 48 km, centered around NL 35-15-46; WL 116-41-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

MOBILE: Operations over water in the Gulf of Mexico, GM

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

Frequency Information

MOBILE: Huntington Beach, CA, within 20 km, centered around NL 33-44-53; WL 118-02-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

MOBILE: 10,000 Ft Flight Level, San Diego, CA, within 100 km, centered around NL 33-25-24; WL 117-17-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

MOBILE: 10,000 Foot Flight Level, San Francisco, CA, within 100 km, centered around NL 36-46-42; WL 122-25-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

MOBILE: 10,000 Foot Flight Level, Puget Sound, WA, within 200 km, centered around NL 48-07-13; WL 123-29-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.20000000-17.30000000 GHz	MO	1G10W3N	7943.000000 W (ERP)	0.00100000 %

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.
- (3) The designated point-of-contact to terminate transmissions if interference occurs are Les Palmer at 314-705-2793 or Jim Pitcher 314-306-3094.

Special Conditions:

- (4) Operations at the California locations shall be coordinated prior to activation and, as appropriate, possible scheduling with the Western Area Frequency Coordinator at 760-939-6948.
- (5) Operations at the Edwards AF Base shall be coordinated prior to activation and, as appropriate, possible scheduling with the AF Frequency Coordinator at 661-277-4763.
- (6) Operations in California area is subject to coordination with the area frequency coordinator located at Nellis AFB, Nevada, Utah West of 111 W and Idaho South of 44 N; and also is subject to prior coordination frequency manager, Air Force Space and Missile technical Center, Vandenberg AFB, California.
- (7) Operation on this assignment is subject to immediate cessation, if it causes harmful interference to Air Force and Navy operations assignment.
- (8) Operation is subject to prior coordination with Gulf Area Frequency Coordinator, Higdon 850-882-5982.