

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

EXPERIMENTAL

(Nature of Service)

WE2XSM

(Call Sign)

XT MO

(Class of Station)

0146-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(b) of the Commission's Rules

Station Locations

- (1) MOBILE: Boeing Facility, Kent, WA, within 248 km, centered around NL 47-25-08; WL 122-15-11
- (2) MOBILE: Naval Air Station, North Island, San Diego, CA, within 248 km, centered around NL 32-41-55; WL 117-12-49
- (3) MOBILE: Naval Base, Point Mugu, CA, within 248 km, centered around NL 34-06-26; WL 119-08-05
- (4) MOBILE: Fort Monmouth, NJ, within 248 km, centered around NL 40-19-06; WL 74-01-38
- (5) MOBILE: Naval Base Newport, RI, within 248 km, centered around NL 41-30-57; WL 71-18-58
- (6) MOBILE: Fort Eustis, VA, within 248 km, centered around NL 37-06-44; WL 76-34-57
- (7) MOBILE: Palm Dale, CA, within 248 km, centered around NL 34-38-11; WL 118-05-51
- (8) MOBILE: Camp Lejeune, NC, within 248 km, centered around NL 34-38-49; WL 77-19-55
- (9) MOBILE: ST Charles, MO, within 248 km, centered around NL 38-45-25; WL 90-22-06
- (10) MOBILE: Yuma, AZ, within 248 km, centered around NL 32-39-07; WL 114-37-00
- (11) MOBILE: Fort Huachuca, AZ, within 248 km, centered around NL 31-35-22; WL 110-21-17
- (12) MOBILE: Melbourne, FL, within 248 km, centered around NL 28-06-12; WL 80-38-47
- (13) MOBILE: Nellis AFB, NV, within 248 km, centered around NL 36-14-07; WL 115-02-04
- (14) MOBILE: Flight level 40,000 ft AGL. Area bounded by 48-25-25 N- 125-22-34W; 48-55-47N- 125-22-34W; 48-55-49N- 111-01-40W; 42-00-01- 111-04-18W & 41-59-02 N- 125-14-39W.
- (15) MOBILE: Ground and Air Testing, Aberdeens Proving Grounds, MA, within 248 km, centered around NL 39-28-03; WL 76-07-45

This authorization effective August 10, 2011 and
will expire 3:00 A.M. EST August 01, 2012

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Boeing Facility, Kent, WA, within 248 km, centered around NL 47-25-08; WL 122-15-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W 320MG2W	2259 W (ERP)	

MOBILE: Naval Air Station, North Island, San Diego, CA, within 248 km, centered around NL 32-41-55; WL 117-12-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W 320MG2W	2259 W (ERP)	

MOBILE: Naval Base, Point Mugu, CA, within 248 km, centered around NL 34-06-26; WL 119-08-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W 320MG2W	2259 W (ERP)	

MOBILE: Fort Monmouth, NJ, within 248 km, centered around NL 40-19-06; WL 74-01-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W	2259 W (ERP)	

Frequency Information

MOBILE: Naval Base Newport, RI, within 248 km, centered around NL 41-30-57; WL 71-18-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W	2259 W (ERP)	

MOBILE: Fort Eustis, VA, within 248 km, centered around NL 37-06-44; WL 76-34-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W	2259 W (ERP)	

MOBILE: Palm Dale, CA, within 248 km, centered around NL 34-38-11; WL 118-05-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W 320MG2W	2259 W (ERP)	

MOBILE: Camp Lejeune, NC, within 248 km, centered around NL 34-38-49; WL 77-19-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W	2259 W (ERP)	

Frequency Information

MOBILE: ST Charles, MO, within 248 km, centered around NL 38-45-25; WL 90-22-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W	2259 W (ERP)	

MOBILE: Yuma, AZ, within 248 km, centered around NL 32-39-07; WL 114-37-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W	2259 W (ERP)	

MOBILE: Fort Huachuca, AZ, within 248 km, centered around NL 31-35-22; WL 110-21-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W	2259 W (ERP)	

MOBILE: Melbourne, FL, within 248 km, centered around NL 28-06-12; WL 80-38-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W	2259 W (ERP)	

MOBILE: Nellis AFB, NV, within 248 km, centered around NL 36-14-07; WL 115-02-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W	2259 W (ERP)	

Frequency Information

MOBILE: Nellis AFB, NV, within 248 km, centered around NL 36-14-07; WL 115-02-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	320MG2W	2259 W (ERP)	

MOBILE: Flight level 40,000 ft AGL. Area bounded by 48-25-25 N- 125-22-34W; 48-55-47N- 125-22-34W; 48-55-49N- 111-01-40W; 42-00-01- 111-04-18W & 41-59-02 N- 125-14-39W.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W 320MG2W	2259 W (ERP)	

MOBILE: Ground and Air Testing, Aberdeens Proving Grounds, MA, within 248 km, centered around NL 39-28-03; WL 76-07-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	40M0G2W	2259 W (ERP)	

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 is NOT permitted on the frequency band 15.1-15.35 GHz.
- (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) Operation at Florida locations is subject to prior coordination with the Eastern Area Frequency Coordinator located at Patrick AFB, Florida, prior to use within the area bounded by 24N 31 30N and 77W 83W.
- (6) Operation on this assignment is subject to immediate cessation, if it causes harmful interference to FAA, Navy, and Air Forces operations.

Special Conditions:

- (7) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Military contract number H94003-03-D007. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (8) The designated point-of-contact to terminate transmissions is interference occurs is Tom Eastgard (253) 657-5978 and Steve Warren (206) 280-4670.
- (9) Operation in this modification is limited to use the frequencies 14.6 - 15.1 GHz within a 150 mile radius at three locations Moses Lake, WA 471201N - 1191759W, Mountain Home AFB, ID 430241N - 1155226W and Glasgow Industrial Airport 482501N - 1063100W.
- (10) Operations are not primary in accordance with allocations. It may be denied when U.S. system request operational station classes.