

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WE2XSM

(Call Sign)

0007-EX-CR-2017

(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: Melbourne, FL, within 248 km, centered around NL 28-06-12; WL 80-38-47
- (11) MOBILE: Nellis AFB, NV, within 248 km, centered around NL 36-14-07; WL 115-02-04
- (12) MOBILE: Flight level 40,000 ft AGL, Moses Lake, WA, within 248 km, centered around NL 47-12-01; WL 119-17-59
- (13) MOBILE: Flight level 40,000 ft AGL, Glasgow Industrial Airport, Glasgow, MT, within 248 km, centered around NL 48-25-01; WL 106-31-00
- (14) MOBILE: Flight level 40,000 ft AGL, Mountain Home AFB, ID, within 248 km, centered around NL 43-02-41; WL 115-52-26

This authorization effective March 07, 2017 and
will expire 3:00 A.M. EST March 01, 2019

**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 320MG2W	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 320MG2W	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 320MG2W	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 320MG2W	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 320MG2W	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 (+/-)
14.7145-15.1365 GHz	MO	40M0G2W 320MG2W	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 (+/-)
14.7145-15.1365 GHz	MO	40M0G2W 320MG2W	2259 W (ERP)	

MOBILE: Flight level 40,000 ft AGL, Moses Lake, WA, within 248 km, centered around NL 47-12-01; WL 119-17-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.7145-15.1365 GHz	MO	40M0G2W 320MG2W	2259 W (ERP)	

Frequency Information

MOBILE: Flight level 40,000 ft AGL, Glasgow Industrial Airport, Glasgow, MT, within 248 km, centered around NL 48-25-01; WL 106-31-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.7145-15.1365 GHz	MO	40M0G2W 320MG2W	2259 W (ERP)	

MOBILE: Flight level 40,000 ft AGL, Mountain Home AFB, ID, within 248 km, centered around NL 43-02-41; WL 115-52-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.7145-15.1365 GHz	MO	40M0G2W 320MG2W	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) 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.
- (4) 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.
- (5) Operation on this assignment is subject to immediate cessation, if it causes harmful interference to FAA, Navy, and Air Forces operations.
- (6) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Military contract number H94003-04-D-0007. 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.
- (7) The designated point-of-contact to terminate transmissions is interference occurs is Darryl Price 714-372-5296 (Office)/714-392-0941 (Cell) and Andrew Johnson 714-896-8526 (Office)/714-742-3078 (Cell).
- (8) Operations are not primary in accordance with allocations. It maybe denied when U.S. system request operational station classes.

Special Conditions:

- (9) Operation is NOT PERMITTED using the frequency band 14.6-15.1365 GHz in Aberdeen Proving Grounds, MD.
- (10) Boeing can perform the experiment as Independent Research and Development (IR&D) until US Military contract number H94003-04-D-0007 is expired.
- (11) Use of this license requires prior coordination with the DoD Area Frequency Coordinator for the State of Arizona for any intended use within Arizona due to a high probability of Radio Frequency Interference (RFI) with DoD Unmanned Aerial Vehicles. Use of this STA within Southern Arizona will require significant coordination, and use is not assured for anytime period due to scheduled and in progress UAS use as well as testing and training activities.
- (12) Operation is NOT PERMITTED using the frequency 14.6-15.1 GHz in Yuma, AZ, Fort Huachua, AZ and Mesa, AZ.