

**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)

0244-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, Moses Lake, WA, within 248 km, centered around NL 47-12-01; WL 119-17-59
- (15) 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
- (16) 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 September 27, 2012 and  
will expire 3:00 A.M. EST September 21, 2013

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

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<br>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            | 320MG2W<br>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.

**Special Conditions:**

- (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 H94003-03-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.
- (7) The designated point-of-contact to terminate transmissions is interference occurs is Tom Eastgard (253) 657-5978 and Steve Warren (206) 280-4670.
- (8) Operations are not primary in accordance with allocations. It maybe denied when U.S. system request operational station classes.
- (9) Operation is NOT PERMITTED using the frequency band 14.6-15.1365 GHz in Aberdeen Proving Grounds, MD.