

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

EXPERIMENTAL

(Nature of Service)

WH2XPX

(Call Sign)

XT MO

(Class of Station)

0191-EX-CR-2019

(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: Flight level 50,000 ft, West Coast Water, US

Frequency Information

MOBILE: Flight level 50,000 ft, West Coast Water, US

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.6-15.1 GHz	MO	320MG2W	11816 W (ERP)	

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) Boeing must utilize the 14714.5 - 15136.5 MHz band for mobile operations.
- (4) Due to interference into NASA TDRS space-to-space links NASA requires that transmissions be disabled, in the air-to-air operation mode, when the transmitting antenna is pointed +/- 17 degrees in the north-south direction of the geostationary arc anywhere between 24 W-79 W and between 147 W-191 W.

This authorization effective July 01, 2019 and
will expire 3:00 A.M. EST July 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (5) The Boeing Company must coordinate with the Western Area Frequency Coordinator (WAFC), Mr. J. Szelog at (760) 939-6948 prior to any California operations to mitigate harmful interference current operations. The Boeing Company must also comply with any and all restrictions that may be levied by WAFC.
- (6) The designated point-of-contact to terminate the system if interference occurs is Dan Letbetter (714) 896-2013.
- (7) The Boeing Company must coordinate with the DoD Area Frequency Coordinator Arizona (AFC-AZ), Mr. Mark Rossow at (520) 538-6423 prior to any Arizona operations to mitigate harmful interference current operations. Coordination with DoD AFC AZ does not ensure use for any specific timeframe due to heavy use of frequencies within this band for daily UAS training activities as well as testing within Arizona test ranges. Due to the high power levels requested for this STA the Boeing Company must comply with any and all restrictions that may be imposed by AFC-AZ to ensure that safety of flight operations are not negatively impacted."
- (8) Flight is limited within boundary area
NW corner: 37-12 N; 118-35W NAD83
NE corner: 37-12 N; 116-52W NAD83
SW corner: 32-24 N; 119-05W NAD83
SE corner: 33-42 N; 109-44W NAD83
SE corner: 33-00 N; 109-44W NAD83