

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WK2XYI

(Call Sign)

0321-EX-CN-2020

(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 AGL, Palm Dale, CA, within 300 km, centered around NL 34-38-11; WL 118-05-51
- (2) MOBILE: Flight level 50,000 ft AGL, Kent, WA, within 248 km, centered around NL 47-25-08; WL 122-15-11

Frequency Information

MOBILE: Flight level 50,000 ft AGL, Palm Dale, CA, within 300 km, centered around NL 34-38-11; WL 118-05-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21.4-21.84 GHz	MO	320MG2W	11481 W (ERP)	

MOBILE: Flight level 50,000 ft AGL, Kent, WA, within 248 km, centered around NL 47-25-08; WL 122-15-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21.4-22 GHz	MO	320MG2W	11481 W (ERP)	

This authorization effective June 15, 2020 and
will expire 3:00 A.M. EST June 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



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) The Boeing Company must also comply with any and all restrictions that may be levied by WAFC.
- (4) Licensee must coordinate with the affected Fixed Microwave Service licensees prior to operation in 21.4-22 GHz band.
- (5) The Boeing Company must coordinate operations with the VLBA point of contact: Dan "Mert" Mertely; email: nrao-rfi@nrao.edu; phone: (575) 835-7128.
- (6) The Boeing Company coordination/deconfliction with DOD Western Area Frequency Coordinator, 760-939-6832, jamie.heaton@navy.mil, 24 hours prior to operations for and provide a current stop buzzer contact name and phone number in the event that interference is encountered.
- (7) The Boeing Company must not operate on the following frequencies:
21850 MHz (+/- 10 MHz)
21950 MHz (+/- 10 MHz)
22000 MHz (+/- 12.5 MHz)
- (8) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by USMC, contract number FA8750-18-C-0129. 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.
- (9) Stop Buzzer, Dan Letbetter at (714) 896-2013 / (714) 642-4626.
- (10) During transmission, aircraft shall not exceed the altitude listed in the circuit remarks field 50,000 ft AGL