

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WL2XVJ

(Call Sign)

0465-EX-CN-2021

(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(h) of the Commission's Rules

Station Locations

(1) Lino Lakes (ANOKA), MN - NL 45-08-03; WL 93-05-45

Frequency Information

Lino Lakes (ANOKA), MN - NL 45-08-03; WL 93-05-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20.2-21.2 GHz	FX	38M4M1D 24M5M1D 44M4M1D 60M0M1D 99M9M1D	602560 W (ERP)	
30-31 GHz	FX	12M3M1D 6M30M1D 7M60M1D 20M2M1D 24M6M1D 4M80M1D 10M8M1D	794328 W (ERP)	

This authorization effective June 24, 2021 and
will expire 3:00 A.M. EST July 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Lino Lakes (ANOKA), MN - NL 45-08-03; WL 93-05-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-31 GHz	FX	20M0M1D 20M7M1D 24M2M1D	794328 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) The applicant shall not exceed the occupied bandwidth of the emission beyond the band limits requested in the application to mitigate potential interference to the Fixed Microwave Service licensees operating in adjacent channels, 21.2-21.4 GHz and 31-31.3 GHz.
- (4) Point of communication (satellite): INMARSAT 5F2 @ 55WL
- (5) All Boeing Company testing shall be conducted IAW the configuration and RF parameters (e.g., orbital slot/s, specific frequencies, emission designators, etc.) that Boeing coordinated with Air Force (Jimmy Nguyen) and ARSTRAT (Travis Inghram) and NMSC (Dan Kibe).
- (6) As soon as possible but no later than 3 business days prior to any planned testing, Boeing is required to provide Jimmy Nguyen (Email: jimmy.nguyen@us.af.mil, AFSMO), Travis J. Inghram (Email: travis.j.ingram.civ@mail.mil, ARSTRAT) and Dan Kibe (Email: dan.kibe@navy.mil, NMSC) with the planned testing date/duration and the stop buzzer POC for the testing. If planned testing conflicts with DoD operations, additional evaluations and/or restrictions will be required.
- (7) Stop Buzzers: Boeing 24-hour NOC hotline at (855) 556-1001 or Rick Jones at (253) 350-2801.
- (8) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by USAF, contract number FA8106-16-D-0002. 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 expiration date of contract designated in the related application and enumerated above.