

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WM2XAJ

(Call Sign)

0678-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(i) of the Commission's Rules

Station Locations

- (1) Hood River (HOOD RIVER), OR - NL 45-42-41; WL 121-31-11
- (2) Bingen (KLICKITAT), WA - NL 45-42-23; WL 121-27-02
- (3) Boardman (MORROW), OR - NL 45-44-54; WL 119-47-38
- (4) Pendleton (UMATILLA), OR - NL 45-41-21; WL 118-50-32

Frequency Information

Hood River (HOOD RIVER), OR - NL 45-42-41; WL 121-31-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.8-30 GHz	FX	10M0G7D 600KG7D 20M0G7D	2.57 MW (ERP)	

Bingen (KLICKITAT), WA - NL 45-42-23; WL 121-27-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.8-30 GHz	FX	10M0G7D	2.57 MW (ERP)	

This authorization effective September 01, 2021 and
will expire 3:00 A.M. EST September 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Bingen (KLICKITAT), WA - NL 45-42-23; WL 121-27-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.8-30 GHz	FX	20M0G7D 600KG7D	2.57 MW (ERP)	

Boardman (MORROW), OR - NL 45-44-54; WL 119-47-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.8-30 GHz	FX	10M0G7D 600KG7D 20M0G7D	2.57 MW (ERP)	

Pendleton (UMATILLA), OR - NL 45-41-21; WL 118-50-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.8-30 GHz	FX	10M0G7D 20M0G7D 600KG7D	2.57 MW (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) Licensee must successfully coordinate with the Fixed Microwave Service licensees in each proposed area in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 29-30 GHz bands.
- (4) For operations in the 30-31 GHz bands, the Boeing Company must provide a stop buzzer POC to (Jimmy.Nguyen@us.af.mil).

Special Conditions:

- (5) The outdoor test set up shall be oriented such that the power transmitted toward the GSO arc is minimized.
- (6) Licensee is authorized to conduct tests on a 2.4 meter AvL Technologies 2.4 meter Ka Antenna System antenna via EchoStar Satellite Services L.L.C.'s ECHOSTAR 9 @ 121 W.L. satellite in the 29.8-30 GHz frequency band.
- (7) Points of Communication: ECHOSTAR 9 @ 121 W.L. (Call Sign S2179) operating in the 29.8-30 GHz frequency band.
- (8) Stop Buzzer, Insitu OAC: 509-637-4691