

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WM2XCE

(Call Sign)

0738-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 (+/-)
29.5-29.7 GHz	FX	10M0G7D 600KG7D 20M0G7D	2.57 MW (ERP)	
29.8-30 GHz	FX	10M0G7D 600KG7D 20M0G7D	2.57 MW (ERP)	

This authorization effective October 04, 2021 and
will expire 3:00 A.M. EST October 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 (+/-)
29.5-29.7 GHz	FX	10M0G7D 20M0G7D 600KG7D	2.57 MW (ERP)	
29.8-30 GHz	FX	10M0G7D 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 (+/-)
28.8-30 GHz	FX	10M0G7D 600KG7D 20M0G7D	2.57 MW (ERP)	
29.5-29.7 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 (+/-)
29.5-29.7 GHz	FX	10M0G7D 20M0G7D	2.57 MW (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.5-29.7 GHz	FX	600KG7D	2.57 MW (ERP)	
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) The applicant coordinates with Fixed Microwave Service licensees in each corresponding proposed venue in accordance with 47 C.F.R, Part 101.103(d) prior to operation in the proposed frequency bands.
- (4) Licensee is authorized to conduct tests on one AvL Technologies 2.4 meter Ka Antenna System via EchoStar Satellite Operating Corporation's EchoStar 9 at 121 W.L. geostationary orbit space stations (GSO) satellite in the 29.5-29.7 GHz and 29.8-30 GHz frequency bands.
- (5) Point of communications: EchoStar 9 at 121 W.L. satellite (Call Sign S2179).