

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WL2XHK

(Call Sign)

0849-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(h) of the Commission's Rules

Station Locations

(1) Herndon (FAIRFAX), VA - NL 38-57-31; WL 77-22-33

Frequency Information

Herndon (FAIRFAX), VA - NL 38-57-31; WL 77-22-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.278 GHz	FX	57M7G7D	260016 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) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (4) Stop Buzzer for Operation: Boeing 24-hour NOC hotline: (855) 556-1001 email: bcssnoc@boeing.com.
- (5) Point of communications: O3b's NGSO satellites (Call Sign S2935)

This authorization effective November 13, 2020 and
will expire 3:00 A.M. EST November 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (6) Licensee is authorized to operate 2 unites of 0.45meter Off Set Parabolic (OFP) antennas via O3b's NGSO satellites at the 28.278 GHz frequency band (Earth-to-space).
- (7) Operations in the 28.278 GHz (Ka-band) frequency band must be in compliance with the Article 22, Section II, and Resolution 76 of the ITU Radio Regulations. At the 28.278 GHz frequency band, the equivalent power flux-density (EPFD) limit in the Earth-to-space direction (EPFDup) must not exceed -162 dBW/m² in 40 kHz bandwidth.
- (8) Licensee must successfully secure consents from the Upper Microwave Flexible Use Service licensees in the proposed area prior to accessing to 28.278 GHz.
- (9) Licensee must successfully coordinate with the Fixed Microwave Service licensees in the proposed area in accordance with 47 C.F.R, Part 101.103(d) prior to operation on 28.278 GHz