

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WK2XDY

(Call Sign)

0240-EX-CN-2019

(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) Seattle (KING), WA - NL 47-32-20; WL 122-18-51
- (2) Seattle (KING), WA - NL 47-30-50; WL 122-17-37

Frequency Information

Seattle (KING), WA - NL 47-32-20; WL 122-18-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15400-15700 MHz	FX	150MQ0N	30 W (ERP)	

Seattle (KING), WA - NL 47-30-50; WL 122-17-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15400-15700 MHz	FX	150MQ0N	30 W (ERP)	

This authorization effective May 09, 2019 and
will expire 3:00 A.M. EST May 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



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) For operations in the 15.43-15.63 GHz, the effective EIRP must be in accordance with Recommendation ITU-R S. 1340.
- (4) The authorized herein must not be used for air traffic control communications.
- (5) Aircraft operations are limited to U.S.-registered aircraft.
- (6) The authorized station must be in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules.
- (7) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (8) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (9) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (10) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (11) Licensee should be aware the frequency band 15.4-15.7 GHz. It shall not be used for radiolocation purposes such as UAS detection for security perimeters, drone interdiction or counter-UAS purposes.
- (12) Licensee should also be aware that radio astronomy services (RAS) has a primary band from 15.35-15.4 GHz where all emissions are prohibited. Any future operational use or development that may cause interference to this band would not be supported. For site locations or more information, please contact the NSF spectrum management unit at esm@nsf.gov.
- (13) The designated point of contact to terminate the system if interference occurs is Scott Peterson at 206-947-7384.