

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WH2XPH

(Call Sign)

0008-EX-CR-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) Palmdale, CA - NL 34-38-20; WL 118-05-56

Frequency Information

Palmdale, CA - NL 34-38-20; WL 118-05-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	24M0G1D	4.47 pW (ERP)	0.00001 %
1575.42 MHz	FX	24M0G1D	4.47 pW (ERP)	0.00001 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.

This authorization effective January 16, 2019 and
will expire 3:00 A.M. EST February 01, 2021

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Special Conditions:

- (4) GPS re-radiators are limited to a maximum ERP value that will result in power levels not to exceed a power spectral density of -140 dBm/MHz measured at a distance of 100 ft outside the building of operation. Any malfunction, misalignment, or tampering of the equipment or its location which results in an increased power spectral density outside the building could cause harmful radio frequency interference to GPS receivers, including those in aircraft and/or ground based facilities
- (5) The designated point-of-contacts to terminate transmissions if interference occurs are George "Kirk" Long, 661-265-4556
- (6) Operation is limited to activity for the purpose of testing radio-navigation satellite service (RNSS) equipment and systems.
- (7) The Boeing Company shall post signs on doors to the test area notifying that, "GPS re-radiator is in use and the GPS information you receive may be in error."
- (8) The test equipment shall only be used indoors and shall be under the control of the Boeing Company.
- (9) GPS users in the area of potential interference to GPS reception must be notified that GPS information may be impacted for periods of time.
- (10) Licensee has submitted calculations that predict that the installation will be at or below the limit specified in NTIA manual section 8.3.28