

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WD2XMO

(Call Sign)

0114-EX-CM-2021

(File Number)

NAME BOEING COMPANY, THE

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(b) of the Commission's Rules

Station Locations

(1) Berkeley (ST LOUIS), MO - NL 38-45-04; WL 90-21-24

Frequency Information

Berkeley (ST LOUIS), MO - NL 38-45-04; WL 90-21-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	24.272 pW (ERP)	
1575.42 MHz	FX	20M4W7D	24.272 pW (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.

This authorization effective June 24, 2021 and
will expire 3:00 A.M. EST July 31, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Navy contracts N00019-18-C-1046 and the US Air Force contract FA8634-20-D-2704. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (4) GPS users in the area of potential interference to GPS reception must be notified that GPS information may be impacted for periods of time.
- (5) The designated point-of-contacts to terminate transmissions if interference occurs are Gary Hart (314) 705-2358; Mike Gibson (314) 281-1297; and Leandro Garza, (636) 328-5140.
- (6) Operation is limited to activity for the purpose of testing radionavigation satellite service (RNSS) equipment and systems.
- (7) Licensee is required to post signs on doors to the testing area notifying that, "GPS re-radiator is in use and the GPS information you receive may be in error."
- (8) No EIRP greater than -140 dBm/24 MHz at 100 feet is used.
- (9) The test equipment shall only be used in doors and shall be under the control of Boeing Company.
- (10) GPS re-radiators must operate in accordance with Section 8.3.28 of the NTIA Manual. power spectral density of the signal should be very well controlled inside the building.