

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

EXPERIMENTAL
(Nature of Service)

XC FX
(Class of Station)

WQ2XGS
(Call Sign)

0557-EX-CR-2026
(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(b) of the Commission's Rules

Station Locations

(1) Berkeley (ST LOUIS), MO - NL 38-45-05; WL 90-21-21

Frequency Information

Berkeley (ST LOUIS), MO - NL 38-45-05; WL 90-21-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
500 MHz	FX	1H00N0N	19.72 W (ERP)	
1214 MHz	FX	1H00N0N	24.2 mW (ERP)	
1430 MHz	FX	1H00N0N	24.2 mW (ERP)	
1780 MHz	FX	1H00N0N	24.2 mW (ERP)	

This authorization effective November 01, 2026 and
will expire 3:00 A.M. ET June 01, 2027

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

Berkeley (ST LOUIS), MO - NL 38-45-05; WL 90-21-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1950 MHz	FX	1H00N0N	24.2 mW (ERP)	
2645 MHz	FX	1H00N0N	0.153 W (ERP)	
9876 MHz	FX	1H00N0N	7.67 W (ERP)	
9889 MHz	FX	1H00N0N	8.8 W (ERP)	
12345 MHz	FX	1H00N0N	18.92 W (ERP)	
15678 MHz	FX	1H00N0N	26.607 W (ERP)	
17098 MHz	FX	1H00N0N	40.27 W (ERP)	

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 stop buzzers: Zlibut Cornel (615) 828-8123; Santos Garcia Santiago (314) 828-2861 and Emily Grimes (314) 295-2954.
- (4) Experimental operation must be on an unprotected and non-interference basis (NIB), i.e., The Boeing Company must not cause harmful interference to and must not claim protection from interference caused to it by any other lawfully operating station.

Special Conditions:

- (5) In the event of any harmful interference caused by operations under this grant of experimental authorization, The Boeing Company must immediately cease operations upon notification of such interference. The Boeing Company must immediately inform the Commission, in writing, of such an event.
- (6) All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in section 1.1311. See 47 CFR § 1.1307 (b)(5). The Boeing Company must take all necessary measures to ensure that the earth stations do not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Requirements for restrictions can be determined by predictions based on calculations, modeling or by field measurements.

Special Conditions:

- (7) Prior to commencing operations in the authorized frequency band(s), the experimental licensee must notify the potentially affected licensees below. The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should also include the testing parameters (e.g., specific location(s), frequency bands, antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.

Frequency Bands: 9200-10550 MHz (Call sign S2946, S3213)
Licensee: Spire Global, Inc. Phone Number: 415-356-3400
ATTN: Ms Francisca Adeuyi E-Mail: francisca.adeuyi@spire.com

Frequency Bands: 9300-9900 MHz (Call sign S3082)
Frequency Bands: 9200-10400 MHz (Call sign S3165, S3224)
Licensee: ICEYE US, Inc. Phone Number: 757-493-1387
ATTN: Ms. Leola Moss Phone E-Mail: Leola.Moss@ICEYE.us
ATTN: DirecTV/AT&T. Mr. Raquel Noriega Email: raquel.noriega@att.com)

Frequency Bands: 9300-9900 MHz (Call sign S3137)
Frequency Bands: 9300-10000 MHz (Call sign S3162, S3178)
Licensee: Capella Space Corp. Phone Number: 703-962-0364
ATTN: Mr Daniel J Connors Jr. E-Mail: dan.connors@capellaspace.com

Frequency Bands: 9200-10400 MHz (Call sign S3168, S3186, S3220)
Licensee: Umbra Lab Inc., Phone Number: 805-270-5069
ATTN: Ms Iulia Davies E-Mail: iulia.davies@umbra.space

Frequency Bands: 12.2-12.7 GHz (s-E) (Call sign E090020)
Licensee: DISH Operating L.L.C. Phone Number: 202-463-3709
ATTN: Ms. Alison Minea, E-Mail: Alison.Minea@dish.com

Frequency Bands: 12.2-12.7 GHz (s-E) (Call sign S2669)
Licensee: DIRECTV Enterprises, LLC
ATTN: Mr. Navid Motamed. Phone Number: 310-964-3589 E-Mail: nm704u@att.com and DirecTV/AT&T. Mr. Raquel Noriega Email: raquel.noriega@att.com

- (8) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 20 miles of the contours of the testing area:
?Broadband PCS D Block (1865-1870 MHz/1945-1950 MHz)
?Broadband PCS B block licensees (1870-1885 MHz/1950-1965 MHz)
- (9) License must notify the Broadband Radio Service licensees in the proposed area prior to accessing to 2645 MHz.
- (10) Licensee must notify the Advanced Wireless Service licensees in the proposed area prior to accessing to 1780 MHz
- (11) Licensee must coordinate with the local Society of Broadcast Engineers Frequency Coordinator in the proposed area prior to operation on 500 MHz.

Special Conditions:

- (12) Licensee must coordinate with the Fixed Microwave Service licensees in the proposed venue prior to operation on 12,345 MHz.
- (13) All testing will be performed on the ground, sweeping through specific frequencies, maintaining a dwell time of no longer than 10s per frequency, per transmission.
- (14) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Army contract number FA8634-22-C-2705. 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 numerated above.
- (15) Stop Buzzer Contact Information
 - Zlibut Cornel, cell: 615-828-8123, email: cornel.zlibut@boeing.com
 - Santos Garcia Santiago, cell: 314-828-2861, email: santos.garciasantiago@boeing.com
 - Emily Grimes, cell: 314-295-2954, email: emily.m.grimes@boeing.com