

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WA8XAL

(Call Sign)

1170-EX-ST-2026

(File Number)

NAME The Boeing Company

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Ka band SATCOM with Milli-H and Sling Blade terminal testing/demonstration

Station Locations

- (1) MOBILE: Columbia Airport area, Columbia, MO, within 200 km, centered around NL 38-48-36; WL 92-13-12
- (2) MOBILE: Emerald Flag Exercise Flight Radius Limits, Eglin AFB, FL, within 150 km, centered around NL 30-27-48; WL 86-33-11
- (3) MOBILE: Columbia Airport area, Columbia, MO, within 200 km, centered around NL 38-48-36; WL 92-13-12
- (4) MOBILE: Emerald Flag Exercise Limits, Eglin AFB, FL, within 150 km, centered around NL 30-27-48; WL 86-33-11

Frequency Information

MOBILE: Columbia Airport area, Columbia, MO, within 200 km, centered around NL 38-48-36; WL 92-13-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.35-28.6 GHz	MO	21M0G7W	48.4 kW (ERP)	

This authorization effective July 13, 2026 and
will expire 3:00 A.M. EST January 16, 2027

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Columbia Airport area, Columbia, MO, within 200 km, centered around NL 38-48-36; WL 92-13-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.5-30 GHz	MO	21M0G7W	48.4 kW (ERP)	

MOBILE: Emerald Flag Exercise Flight Radius Limits, Eglin AFB, FL, within 150 km, centered around NL 30-27-48; WL 86-33-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.35-28.6 GHz	MO	21M0G7W	48.4 kW (ERP)	
29.5-30 GHz	MO	21M0G7W	48.4 kW (ERP)	

MOBILE: Columbia Airport area, Columbia, MO, within 200 km, centered around NL 38-48-36; WL 92-13-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.35-28.6 GHz	MO	2M20G7W	707.946 W (ERP)	
29.5-30 GHz	MO	2M20G7W	707.946 W (ERP)	

MOBILE: Emerald Flag Exercise Limits, Eglin AFB, FL, within 150 km, centered around NL 30-27-48; WL 86-33-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.35-28.6 GHz	MO	3M30G7W	4875.2 W (ERP)	

Frequency Information

MOBILE: Emerald Flag Exercise Limits, Eglin AFB, FL, within 150 km, centered around NL 30-27-48; WL 86-33-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.35-28.6 GHz	MO	13M1G7W	19498.44 W (ERP)	
28.35-28.6 GHz	MO	1M60G7W	2437.811 W (ERP)	
29.5-30 GHz	MO	3M30G7W	4875.2 W (ERP)	
29.5-30 GHz	MO	13M1G7W	19498.44 W (ERP)	
29.5-30 GHz	MO	1M60G7W	2437.811 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) Experimental operations outside of the United States are not authorized.
- (3) Stop Buzzer POC: Daniel St. Pierre (702) 235-7054
- (4) The Boeing Company is authorized to perform testing using its GetSat Sling Blade Ka-band satellite antenna while in-flight within 200 km from geographical coordinates 38° 48' 36.0" N, 92° 13' 12.0" W in Columbia, MO and within 150 km radius from geographical coordinates 30° 27' 48.0" N, 86° 33' 11.0" W in Eglin AFB, FL. The antenna will communicate with the geostationary orbit (GSO) SES-17 (Call Sign S3043) satellite using the 28.35–28.6 and 29.5–30.0 GHz frequency bands (Earth-to-space).