

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WR9XKF

(Call Sign)

1761-EX-ST-2020

(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:

This requirement supports the development of the GetSAT MicroSAT antenna system testing with a Ka satellite simulator.

Station Locations

- (1) Hood River (HOOD RIVER), OR - NL 45-42-41; WL 121-31-11
- (2) Bingen (KLICKITAT), WA - NL 45-42-23; WL 121-27-02
- (3) Boardman (MORROW), OR - NL 45-44-54; WL 119-47-38

Frequency Information

Hood River (HOOD RIVER), OR - NL 45-42-41; WL 121-31-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20.003 GHz	FX	4M50G7D	500 uW (ERP)	
20.008 GHz	FX	600KG7D	500 uW (ERP)	

This authorization effective December 21, 2020 and
will expire 3:00 A.M. EST June 02, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Hood River (HOOD RIVER), OR - NL 45-42-41; WL 121-31-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.803 GHz	FX	4M50G7D	24550 W (ERP)	
29.808 GHz	FX	600KG7D	24.6 W (ERP)	
29.808 GHz	FX	600KG7D	1.28 MW (ERP)	

Bingen (KLICKITAT), WA - NL 45-42-23; WL 121-27-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20.003 GHz	FX	4M50G7D	500 uW (ERP)	
20.008 GHz	FX	600KG7D	500 uW (ERP)	
29.803 GHz	FX	4M50G7D	24550 W (ERP)	
29.808 GHz	FX	600KG7D	24.6 W (ERP)	
29.808 GHz	FX	600KG7D	1.28 MW (ERP)	

Frequency Information

Boardman (MORROW), OR - NL 45-44-54; WL 119-47-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20.003 GHz	FX	4M50G7D	500 uW (ERP)	
20.008 GHz	FX	600KG7D	500 uW (ERP)	
29.803 GHz	FX	4M50G7D	24550 W (ERP)	
29.808 GHz	FX	600KG7D	24.6 W (ERP)	
29.808 GHz	FX	600KG7D	1.28 MW (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) Stop Buzzer for Operation: Insitu OAC: 1-509-637-4691
- (4) Licensee must successfully coordinate with the local Society of Broadcast Engineers frequency coordinator in each proposed area prior to accessing to 18.7-21.2 GHz bands.
- (5) Licensee must successfully coordinate with the Fixed Microwave Service licensees in each proposed area in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 18.7-21.2 GHz and 29-31 GHz bands.
- (6) The simulator antenna shall be restricted so that the orientation does not extend above the horizontal plane and does not point towards the geostationary arc.
- (7) For operations in the 20.2-21.2 GHz and 30-31 GHz bands, the Boeing Company must provide a stop buzzer POC to (Jimmy.Nguyen@us.af.mil).

Special Conditions:

- (8) Prior to commencing any operations at the 29.803 GHz and 29.808 GHz frequency bands, experimental licensee must notify licensee of ViaSat, Inc. (Blanket Terminals under call sign E120227 and E120071. Name: Mr. Daryl T Hunter. Phone: 760-476-2583 E-Mail: daryl.hunter@viasat.com). 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 include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (9) Prior to commencing any operations at the 29.803 GHz and 29.808 GHz frequency bands, experimental licensee must notify licensee of HNS License Sub, LLC (Blanket Terminals under call sign E060445 and E110149. Name: Ms. Jennifer A. Manner Phone: 301-428-5893 E-Mail: jennifer.manner@echostar.com). 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 include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.