

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

EXPERIMENTAL

(Nature of Service)

WS9XFW

(Call Sign)

XT MO

(Class of Station)

0856-EX-ST-2021

(File Number)

NAME Kuiper Systems LLC

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:

Amazon proposes to conduct over-the-air outdoor tests of a prototype earth station antenna (Antenna 1) and a prototype spacecraft antenna (Antenna 2) to evaluate the wireless

Station Locations

- (1) MOBILE: Cottage Lake, WA. Please see narrative response.
- (2) MOBILE: Cottage Lake, WA. Please see narrative response.
- (3) MOBILE: Cottage Lake, WA. Please see narrative response.
- (4) MOBILE: Cottage Lake, WA. Please see narrative response.
- (5) MOBILE: Cottage Lake, WA. Please see narrative response.
- (6) MOBILE: Cottage Lake, WA. Please see narrative response.

Frequency Information

MOBILE: Cottage Lake, WA. Please see narrative response.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
18.3-18.6 GHz	MO	0G00N0N	1.22 W (ERP)	0.001 %
18.8-19.3 GHz	MO	0G00N0N	1.22 W (ERP)	0.001 %

This authorization effective June 09, 2021 and
will expire 3:00 A.M. EST December 03, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Cottage Lake, WA. Please see narrative response.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.6-29.1 GHz	MO	0G00N0N	121.62 W (ERP)	0.001 %

MOBILE: Cottage Lake, WA. Please see narrative response.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.6-29.1 GHz	MO	0G00N0N	3054.92 W (ERP)	0.001 %

MOBILE: Cottage Lake, WA. Please see narrative response.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.6-29.1 GHz	MO	0G00N0N	272.27 W (ERP)	0.001 %

MOBILE: Cottage Lake, WA. Please see narrative response.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.6-29.1 GHz	MO	0G00N0N	2162.7 W (ERP)	0.001 %
		16M7D1W		
		16M7D7W		
		100MD1W		
		100MD7W		

Frequency Information

MOBILE: Cottage Lake, WA. Please see narrative response.

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
19.7-20.2 GHz	MO	0G00N0N	1109.2 W (ERP)	0.001 %
		500MD1W		
		500MD7W		

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) Coordinate with Fixed Microwave Service licensees in the corresponding proposed venue in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 28.6-29.1 GHz band.
- (4) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.

Special Conditions:

- (5) Prior to commencing any operations, experimental licensee must notify licensees of Ka-band FSS earth stations. 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. Please notify the following licensees:

Call Sign: E190676

Frequency band(s): 28350-29100 MHz, 17800-18600 MHz, 18800-19300 MHz

Licensee: SpaceX Services, Inc.

ATTN: Ms. Patricia Cooper

Phone: 202-649-2700 E-Mail: patricia.cooper@spacex.com

Site contact: Ben Stout 310 682 2553

Call Sign: E150081

Frequency band(s): 27850-29100 MHz, 18300-19300 MHz, 19700-20200 MHz

Licensee: HNS License Sub, LLC

ATTN: Ms. Jennifer Manner

Phone: 301-428-5893 Fax: 301-428-2818 E-Mail: jennifer.manner@echostar.com

Site contact: Network Management Ctr 3014287205

Call Sign: E100106

Frequency band(s): 27850-29100 MHz, 18300-18800 MHz, 19700-20200 MHz

Licensee: The Boeing Company

ATTN: Mr. Ronald E Center

Phone: 866-248-1493 Fax: 206-662-0701 E-Mail: fmsfcccorrespondence@boeing.com

Site contact: STEVE HARMON 206-769-5606

- (6) The designated point-of-contact to terminate transmissions if interference occurs is Tom Brachtenbach at (303) 829-4465.