

Name: Kuiper Systems LLC

Authorization Type: Modification

Call Sign: E230164

File Number: SES-MOD-20251211-01036

Grant Date: 2024-06-28 **Expiration Date:** 2039-06-28

Class of Station: c. FSS Fixed Earth Stations (multiple locations without coordinates specified)

A) Site Location(s):

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1	CT Blanket	, ,				null	

Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209



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Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning Friday, June 28, 2024 (3 AM Eastern Standard Time) and ending Tuesday, June 28, 2039 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is Thursday, August 19, 2027. Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operation

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1	19700 - 20200		20M0D7W	Space- to-Earth			TYPE 1		SC-OFDM
2	19700 - 20200		500MD7W	Space- to-Earth			TYPE 1		SC-OFDM
3	28350 - 29100		10M0D7W	Earth- to-Space	34.979	1	TYPE 1		SC-OFDM
4	28350 - 29100		200MD7W	Earth- to-Space	34.979	-12	TYPE 1		SC-OFDM
5	18800 - 19400		20M0D7W	Space- to-Earth			TYPE 1		SC-OFDM
6	18800 - 19400		500MD7W	Space- to-Earth			TYPE 1		SC-OFDM
7	17800 - 18600		20M0D7W	Space- to-Earth			TYPE 1		SC-OFDM
8	17800 - 18600		500MD7W	Space- to-Earth			TYPE 1		SC-OFDM
9	29500 - 30000		200MD7W	Earth- to-Space	35	-12	TYPE 1		SC-OFDM
10	29500 - 30000		10M0D7W	Earth- to-Space	35	1.021	TYPE 1		SC-OFDM
11	17300 - 17800		20M0D7W	Space- to-Earth			TYPE 1		SC-OFDM

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
12	17300 - 17800		500MD7W	Space- to-Earth			TYPE 1		SC-OFDM
13	17800 - 18600		20M0D7W	Space- to-Earth			TYPE 3		SC-OFDM
14	17800 - 18600		500MD7W	Space- to-Earth			TYPE 3		SC-OFDM
15	18800 - 19400		20M0D7W	Space- to-Earth			TYPE 3		SC-OFDM
16	18800 - 19400		500MD7W	Space- to-Earth			TYPE 3		SC-OFDM
17	29500 - 30000		200MD7W	Earth- to-Space	45.8	-1.19	TYPE 3		SC-OFDM
18	29500 - 30000		10M0D7W	Earth- to-Space	45.8	11.821	TYPE 3		SC-OFDM
19	19700 - 20200		500MD7W	Space- to-Earth			TYPE 3		SC-OFDM
20	19700 - 20200		20M0D7W	Space- to-Earth			TYPE 3		SC-OFDM
21	28350 - 29100		10M0D7W	Earth- to-Space	45.782	11.8	TYPE 3		SC-OFDM
22	28350 - 29100		200MD7W	Earth- to-Space	45.782	-1.208	TYPE 3		SC-OFDM
23	17300 - 17800		20M0D7W	Space- to-Earth			TYPE 3		SC-OFDM
24	17300 - 17800		500MD7W	Space- to-Earth			TYPE 3		SC-OFDM
25	19700 - 20200		20M0D7W	Space- to-Earth			TYPE 2		SC-OFDM
26	19700 - 20200		500MD7W	Space- to-Earth			TYPE 2		SC-OFDM
27	28350 - 29100		10M0D7W	Earth- to-Space	40.5	6.521	TYPE 2		SC-OFDM
28	28350 - 29100		200MD7W	Earth- to-Space	40.5	-6.49	TYPE 2		SC-OFDM
29	18800 - 19400		500MD7W	Space- to-Earth			TYPE 2		SC-OFDM
30	18800 - 19400		20M0D7W	Space- to-Earth			TYPE 2		SC-OFDM
31	29500 - 30000		200MD7W	Earth- to-Space	40.5	-6.49	TYPE 2		SC-OFDM
32	29500 - 30000		10M0D7W	Earth- to-Space	40.5	6.521	TYPE 2		SC-OFDM
33	17800 - 18600		500MD7W	Space- to-Earth			TYPE 2		SC-OFDM
34	17800 - 18600		20M0D7W	Space- to-Earth			TYPE 2		SC-OFDM
35	17300 - 17800		500MD7W	Space- to-Earth			TYPE 2		SC-OFDM
36	17300 -		20M0D7W	Space-			TYPE 2		SC-OFDM

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
	17800			to-Earth					



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C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc Deg. Long.		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1	19700 - 20200			35	35	0	360		TYPE 1
2	28350 - 29100			35	35	0	360	-28.4	TYPE 1
3	18800 - 19400			35	35	0	360		TYPE 1
4	17800 - 18600			35	35	0	360		TYPE 1
5	29500 - 30000			35	35	0	360	-28.4	TYPE 1
6	17300 - 17800			35	35	0	360		TYPE 1
7	17800 - 18600			35	35	0	360		TYPE 3
8	18800 - 19400			35	35	0	360		TYPE 3
9	29500 - 30000			35	35	0	360	-28.3	TYPE 3
10	19700 - 20200			35	35	0	360		TYPE 3
11	28350 - 29100			35	35	0	360	-28.3	TYPE 3
12	17300 - 17800			35	35	0	360		TYPE 3
13	19700 - 20200			35	35	0	360		TYPE 2
14	28350 - 29100			35	35	0	360	-26.6	TYPE 2
15	18800 - 19400			35	35	0	360		TYPE 2
16	29500 - 30000			35	35	0	360	-26.6	TYPE 2
17	17800 - 18600			35	35	0	360		TYPE 2
18	17300 - 17800			35	35	0	360		TYPE 2



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D) Points of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) CT Blanket to Kuiper Gen-1, Gen-2, Polar (S3105/S3051) Non-Geo (U.S.-licensed satellite)



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E) Antenna Facilities

#	Site ID	Antenna ID	Units	Diameter (Meters)	Manufacturer	Model Number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
1	CT Blanket	TYPE 1	0	0.158	Kuiper Systems LLC	AMZ-1		AGL / AMSL	
Max Gains(s): Maximum total input power at antenna flange(Watts): 2.5 Maximum aggregate output EIRP for all carriers(dBW): 35.179									
2	CT Blanket	TYPE 3	0	0.366	Kuiper Systems LLC	AMZ-3		AGL / AMSL	
Max Gains(s): Maximum total input power at antenna flange(Watts): 6 Maximum aggregate output EIRP for all carriers(dBW): 45.982									
3	CT Blanket	TYPE 2	0	0.185	Kuiper Systems LLC	AMZ-2		AGL / AMSL	
Max Gains(s): Maximum total input power at antenna flange(Watts): 4.5 Maximum aggregate output EIRP for all carriers(dBW): 40.732									

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions.



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H) Special and General Provisions:

A) This EARTH STATION AUTHORIZATION is granted subject to the following special provisions and general conditions.

- 4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Communications Filing System (ICFS) using the "Pleadings and Comments" link on the ICFS homepage within 10 days of the change.
- 8 --- Licensee must notify the Commission when all earth stations under this authorization are no longer operational or when they have not been used to provide service during any continuous six-month period.
- 1014 --- The zero entry in the "Units" column of Section E, Antenna Facilities, indicates that this authorization covers multiple units without quantity restrictions, as allowed by Section 25.118(b)(2) of the Commission's rules.
- 90623 --- Operations in the 17.8-18.3 GHz frequency band are on a secondary basis to the Fixed Service (FS). Licensee must accept any interference from existing and future FS transmissions in the 17.8-18.3 GHz frequency band.
- 90900 --- Grant of the instant application is subject to the terms and condition of all associated current or future space station authorization(s) or grant(s) of market access. Operations pursuant to the instant authorization must be consistent with the associated space station(s) authorizations(s) or grant(s) of market access.

B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station does not meet each required construction deadline by the required date of completion unless, before such date(s), a specific application is timely filed to request an extension of the construction deadline(s), supported with good cause why that failure to construct by the required date was due to factors not under control of the grantee.

Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international, policy, and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive-only earth stations are exempt from payment of regulatory fees.