

EARTH STATION AUTHORIZATION

Grant Date: 2026-07-01 **Expiration Date:** 2040-02-28

A) Site Location(s):

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1	MT JACKSON	1305 INDUSTRIAL PARK ROAD MT. JACKSON, SHENANDOAH, VA 22842	38 ° 43 ' 42 " N	78 ° 39 ' 24 W	282.6	WGS- 84	

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



UNITED STATES OF AMERICA FEDERAL COMMUNICATIONS COMMISSION

EARTH STATION AUTHORIZATION

Name: Telesat Network Services, Inc.

Call Sign: E990541

Authorization Type: Renewal

File Number: SES-RWL-20241203-02551

Grant Date: 2026-07-01 **Expiration Date:** 2040-02-28

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, February 28, 2025 (3 AM Eastern Standard Time) and ending Tuesday, February 28, 2040 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is [Grant Date / Construction Commencement Date not found]. 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	11450 - 11700		3M52G7W	Space- to- Earth			4009ESV		
2	11450 - 11700		5M77G7W	Space- to- Earth			4009ESV		
3	11450 - 11700		1M76G7W	Space- to- Earth			4009ESV		
4	10950 - 11200		3M52G7W	Space- to- Earth			4009ESV		
5	10950 - 11200		5M77G7W	Space- to- Earth			4009ESV		
6	10950 - 11200		1M76G7W	Space- to- Earth			4009ESV		
7	14000 - 14470		1M60G7W	Earth- to- Space	50.3	24.28	4009ESV		1750 KBPS, .66 FEC, QPSK
8	14000 -		400KG7W	Earth-	47.8	27.8	4009ESV		350KBPS, .533FEC

#	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
	14470			to- Space					QPSK
9	14000 - 14470		500KG7W	Earth- to- Space	48.769	27.82	4009ESV		540 KBPS, .66 FEC QPSK
10	14000 - 14470		470KG7W	Earth- to- Space	48.5	27.8	4009ESV		410 KBPS, .533 FEC, QPSK
11	11700 - 12200		3M52G7W	Space- to- Earth			4009ESV		
12	11700 - 12200		5M77G7W	Space- to- Earth			4009ESV		
13	11700 - 12200		1M76G7W	Space- to- Earth			4009ESV		
14	11700 - 12200		943KG7W	Space- to- Earth			2406ESV		
15	11450 - 11700		943KG7W	Space- to- Earth			2406ESV		
16	10950 - 11200		943KG7W	Space- to- Earth			2406ESV		
17	14000 - 14470		943KG7W	Earth- to- Space	45	21.28	2406ESV		1037 KBPS, QPSK, 33/50 FEC
18	11700 - 12200		1M76G7W	Space- to- Earth			4006ESV		
19	11700 - 12200		3M52G7W	Space- to- Earth			4006ESV		
20	11700 - 12200		5M77G7W	Space- to- Earth			4006ESV		
21	11450 - 11700		1M76G7W	Space- to- Earth			4006ESV		
22	11450 - 11700		3M52G7W	Space- to- Earth			4006ESV		
23	11450 - 11700		5M77G7W	Space- to- Earth			4006ESV		
24	14000 - 14470		1M60G7W	Earth- to- Space	50.3	24.3	4006ESV		1750 KBPS, .66 FEC, QPSK

#	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
25	14000 - 14470		470KG7W	Earth-to-Space	48.5	27.8	4006ESV		410 KBPS, .533 FEC, QPSK
26	14000 - 14470		400KG7W	Earth-to-Space	47.8	27.8	4006ESV		350KBPS, .533FEC QPSK
27	14000 - 14470		500KG7W	Earth-to-Space	48.769	27.8	4006ESV		540 KBPS, .66 FEC QPSK
28	10950 - 11200		1M76G7W	Space-to-Earth			4006ESV		
29	10950 - 11200		3M52G7W	Space-to-Earth			4006ESV		
30	10950 - 11200		5M77G7W	Space-to-Earth			4006ESV		
31	11700 - 12200		76K8G1W	Space-to-Earth			9M		50.752 KBPS BPSK, FEC TPC, 0.793, TDMA
32	11700 - 12200		76K8G1W	Space-to-Earth			9M		152.256 KBPS 8PSK, FEC TPC, 0.793, TDMA
33	11700 - 12200		3M45G1W	Space-to-Earth			9M		5.6925 MBPS BPSK, FEC TPC, 0.66, TDMA
34	11700 - 12200		76K8G1W	Space-to-Earth			9M		84.48 KBPS QPSK, FEC TPC, 0.66, TDMA
35	11700 - 12200		76K8G1W	Space-to-Earth			9M		126.72 KBPS 8PSK, FEC TPC, 0.66, TDMA
36	11700 - 12200		1M80G1W	Space-to-Earth			9M		DIGITAL SCPC CARRIER, QPSK
37	11700 - 12200		76K8G1W	Space-to-Earth			9M		42.24 KBPS BPSK, FEC TPC, 0.66, TDMA
38	11700 - 12200		76K8G1W	Space-to-Earth			9M		68.224 KBPS QPSK, FEC TPC, 0.533, TDMA
39	11700 - 12200		76K8G1W	Space-to-Earth			9M		55.168 KBPS QPSK, FEC TPC, 0.431, TDMA
40	11700 - 12200		76K8G1W	Space-to-Earth			9M		34.112 KBPS BPSK, FEC TPC, 0.533, TDMA
41	11700 - 12200		4M50G7W	Space-to-			9M		QPSK, VOICE, FACSIMILE,

#	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
				Earth					VIDEO AND DATA S
42	11700 - 12200		50K0G1W	Space- to- Earth			9M		DIGITAL SCPC CARRIER, QPSK
43	11700 - 12200		3M45G1W	Space- to- Earth			9M		4.55975 MBPS QPSK, FEC TPC, 0.793, TDMA
44	11700 - 12200		76K8G1W	Space- to- Earth			9M		27.584 KBPS BPSK, FEC TPC, 0.431, TDMA
45	11700 - 12200		3M45G1W	Space- to- Earth			9M		3.795 MBPS QPSK FEC TPC, 0.66, TDMA
46	11700 - 12200		3M45G1W	Space- to- Earth			9M		6.839625 MBPS BPSK, FEC TPC, 0.793, TDMA
47	11700 - 12200		76K8G1W	Space- to- Earth			9M		101.504 KBPS QPSK, FEC TPC, 0.793, TDMA
48	13800 - 14500		13M8G7W	Earth- to- Space	77.2	41.82	9M		10,1085 MBPS BPSK, FEC TPC, 0.879, SCPC
49	13800 - 14500		13M8G7W	Earth- to- Space	77.2	41.82	9M		18.239 MBPS QPSK, FEC TPC, 0.793, SCPC
50	13800 - 14500		6M90G7W	Earth- to- Space	77.2	44.83	9M		5.6925 MBPS QPSK, FEC TPC, 0.495, SCPC
51	13800 - 14500		13M8G7W	Earth- to- Space	77.2	41.82	9M		12.259 MBPS QPSK, FEC TPC, 0.533, SCPC
52	13800 - 14500		6M90G7W	Earth- to- Space	77.2	44.83	9M		9.1195 MBPS QPSK, FEC TPC, 0.793, SCPC
53	13800 - 14500		13M8G7W	Earth- to- Space	77.2	41.82	9M		4.9565 MBPS BPSK, FEC TPC, 0.431, SCPC
54	13800 - 14500		13M8G7W	Earth- to- Space	77.2	41.82	9M		27.3585 MBPS 8PSK, FEC TPC, 0.793, SCPC
55	13800 - 14500		13M8G7W	Earth- to- Space	77.2	41.82	9M		9.1195 MBPS BPSK, FEC TPC, 0.793, SCPC
56	13800 - 14500		13M8G7W	Earth- to- Space	77.2	41.82	9M		11.385 MBPS QPSK, FEC TPC, 0.495, SCPC
57	13800 - 14500		13M8G7W	Earth- to- Space	77.2	41.82	9M		20.217 MBPS QPSK, FEC TPC, 0.879, SCPC

#	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
58	13800 - 14500		13M8G7W	Earth- to- Space	77.2	41.82	9M		9.913 MBPS QPSK, FEC TPC, 0.431, SCPC
59	13800 - 14500		13M8G7W	Earth- to- Space	77.2	41.82	9M		6.1295 MBPS BPSK, FEC TPC, 0.533, SCPC
60	13800 - 14500		13M8G7W	Earth- to- Space	77.2	41.82	9M		5.6925 MBPS BPSK, FEC TPC, 0.495, SCPC
61	13800 - 14500		13M8G7W	Earth- to- Space	77.2	41.82	9M		30.3255 MBPS 8PSK, FEC TPC, 0.879, SCPC
62	13800 - 14500		76K8G1W	Earth- to- Space	59.033	46.2	9M		55.168 KBPS QPSK, FEC TPC, 0.431, SCPC
63	13800 - 14500		76K8G1W	Earth- to- Space	59.033	46.2	9M		50.752 KBPS BPSK, FEC TPC, 0.793, SCPC
64	13800 - 14500		76K8G1W	Earth- to- Space	59.033	46.2	9M		31.68 KBPS BPSK, FEC TPC, 0.495, SCPC
65	13800 - 14500		76K8G1W	Earth- to- Space	59.033	46.2	9M		34.112 KBPS BPSK, FEC TPC, 0.533, SCPC
66	13800 - 14500		76K8G1W	Earth- to- Space	59.033	46.2	9M		63.36 KBPS QPSK, FEC TPC, 0.495, SCPC
67	13800 - 14500		76K8G1W	Earth- to- Space	59.033	46.2	9M		168,768 KBPS 8PSK, FEC TPC, 0.879, SCPC
68	13800 - 14500		76K8G1W	Earth- to- Space	59.033	46.2	9M		101.504 KBPS QPSK, FEC TPC, 0.793, SCPC
69	13800 - 14500		76K8G1W	Earth- to- Space	59.033	46.2	9M		112.512 KBPS QPSK, FEC TPC, 0.879, SCPC
70	13800 - 14500		76K8G1W	Earth- to- Space	59.033	46.2	9M		56.256 KBPS BPSK, FEC TPC, 0.879, SCPC
71	13800 - 14500		76K8G1W	Earth- to- Space	59.033	46.2	9M		68.224 KBPS QPSK, FEC TPC, 0.533, SCPC
72	13800 - 14500		76K8G1W	Earth- to- Space	59.033	46.2	9M		27.584 KBPS BPSK, FEC TPC, 0.431, SCPC
73	13800 - 14500		76K8G1W	Earth- to- Space	59.033	46.2	9M		152.256 KBPS 8PSK, FEC TPC, 0.793, SCPC
74	14000 - 14500		36M0G7W	Earth- to-	84.74	45.2	9M		QPSK, VOICE, FACSIMILE,

#	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
				Space					VIDEO AND DATA S
75	14000 - 14500		1M80G7W	Earth- to- Space	60.6	34.07	9M		QPSK, VOICE, FACSIMILE, VIDEO AND DATA S
76	14000 - 14500		7M04G7W	Earth- to- Space	66.5	34.04	9M		QPSK, VOICE, FACSIMILE, VIDEO AND DATA S
77	10950 - 11200		5M77G7W	Space- to- Earth			4003ESV		
78	10950 - 11200		1M76G7W	Space- to- Earth			4003ESV		
79	10950 - 11200		3M52G7W	Space- to- Earth			4003ESV		
80	14000 - 14470		400KG7W	Earth- to- Space	47.3	27.3	4003ESV		350KBPS, .533FEC QPSK
81	14000 - 14470		470KG7W	Earth- to- Space	47.3	26.6	4003ESV		410 KBPS, .533 FEC, QPSK
82	14000 - 14470		500KG7W	Earth- to- Space	47.3	26.33	4003ESV		540 KBPS, .66 FEC QPSK
83	14000 - 14470		1M60G7W	Earth- to- Space	47.3	21.28	4003ESV		1750 KBPS, .66 FEC, QPSK
84	11700 - 12200		5M77G7W	Space- to- Earth			4003ESV		
85	11700 - 12200		1M76G7W	Space- to- Earth			4003ESV		
86	11700 - 12200		3M52G7W	Space- to- Earth			4003ESV		
87	11450 - 11700		5M77G7W	Space- to- Earth			4003ESV		
88	11450 - 11700		1M76G7W	Space- to- Earth			4003ESV		
89	11450 - 11700		3M52G7W	Space- to- Earth			4003ESV		
90	10950 -		943KG7W	Space-			6006ESV		

#	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
	11200			to- Earth					
91	14000 - 14470		943KG7W	Earth- to- Space	52	28.28	6006ESV		1037 KBPS, QPSK, 33/50 FEC
92	11700 - 12200		943KG7W	Space- to- Earth			6006ESV		
93	11450 - 11700		943KG7W	Space- to- Earth			6006ESV		
94	11450 - 11700		943KG7W	Space- to- Earth			USAT24ESV		
95	14000 - 14470		943KG7W	Earth- to- Space	45	21.28	USAT24ESV		1037 KBPS, QPSK, 33/50 FEC
96	10950 - 11200		943KG7W	Space- to- Earth			USAT24ESV		
97	11700 - 12200		943KG7W	Space- to- Earth			USAT24ESV		
98	11450 - 11700		943KG7W	Space- to- Earth			6009ESV		
99	10950 - 11200		943KG7W	Space- to- Earth			6009ESV		
100	14000 - 14470		943KG7W	Earth- to- Space	52	28.28	6009ESV		1037 KBPS, QPSK, 33/50 FEC
101	11700 - 12200		943KG7W	Space- to- Earth			6009ESV		



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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	11700 - 12200	67W	129W	43.5	21.8	161.8	242.6		9M
2	11700 - 12200	67W	129W	43.5	21.8	161.8	242.6		9M
3	13800 - 14500	67W	129W	43.5	21.8	161.8	242.6	16.5	9M
4	14000 - 14500	67W	129W	43.5	21.8	161.8	242.6	-16.46	9M



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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) MT JACKSON to Permitted Space Station List
- 2) MT JACKSON to Estrela do Sul 2 (S2821) @ 63° W.L. (Brazil-licensed)



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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	MT JACKSON	4009ESV	250	1	SEATEL	4009	282.6	3 AGL / undefined AMSL	
Max Gains(s): Maximum total input power at antenna flange(Watts): 8 Maximum aggregate output EIRP for all carriers(dBW): 50.83									
2	MT JACKSON	2406ESV	250	0.6	SEATEL	2406	282.6	2 AGL / undefined AMSL	
Max Gains(s): Maximum total input power at antenna flange(Watts): 8 Maximum aggregate output EIRP for all carriers(dBW): 45									
3	MT JACKSON	4006ESV	250	1	SEATEL	4006	282.6	3 AGL / undefined AMSL	
Max Gains(s): Maximum total input power at antenna flange(Watts): 8 Maximum aggregate output EIRP for all carriers(dBW): 50.83									
4	MT JACKSON	9M	1	9	VERTEX	9KPC	282.6	9.5 AGL / undefined AMSL	
Max Gains(s): Maximum total input power at antenna flange(Watts): 285 Maximum aggregate output EIRP for all carriers(dBW): 84.74									
5	MT JACKSON	4003ESV	250	1	SEATEL	4003	282.6	3 AGL / undefined AMSL	

#	Site ID	Antenna ID	Units	Diameter (Meters)	Manufacturer	Model Number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
6	MT JACKSON	6006ESV	250	1.5	SEATEL	6006	282.6	3 AGL / undefined AMSL	
7	MT JACKSON	USAT24ESV	250	0.6	SEATEL	USAT24	282.6	2 AGL / undefined AMSL	
8	MT JACKSON	6009ESV	250	1.5	SEATEL	6009	282.6	3 AGL / undefined AMSL	

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.
- 521 --- The grant of this application is subject to Licensee submitting an acceptable radiation hazard analysis report with the new near field power density formula in accordance with IEEE Std. C95.3-2021, Section D.4.4. "S_{nf} limit $16P/((\text{Eta})(\text{Pi})(\text{Dsquared}))$ ", within 180 calendar days of the publishing of the updated radiation hazard in OET's Bulletin 65. Licensee should not contemplate extension-of-time to meet this condition.
- 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.
- 900722 --- On our own motion, the Commission grants a waiver of 47 CFR § 25.204(f) to transmit with an EIRP below 68 dBW in the 13.75-14 GHz frequency band.

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.

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.