



UNITED STATES OF AMERICA FEDERAL COMMUNICATIONS COMMISSION

EARTH STATION AUTHORIZATION

Name: AST & Science, LLC

Call Sign: E260379

Authorization Type: License

File Number: SES-LIC-20260515-01337

Grant Date: 2026-07-14 **Expiration Date:** 2041-07-14

Nature of Service: Fixed-Satellite Service

Class of Station: a. FSS Fixed Earth Station (single location)

A) Site Location(s):

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1	Iowa Falls V-band Gateway	10048 Highway 65 Iowa Falls, Hardin, IA 50126	42 ° 33 ' 18.88 " N	93 ° 15 ' 32.75 W	352	NAD- 83	

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 Tuesday, July 14, 2026 (3 AM Eastern Standard Time) and ending Sunday, July 14, 2041 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is Wednesday, July 14, 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	50400 - 51400		100MD7W	Earth- to- Space	59.6	15.6	Iowa Falls V-band Gateway		BPSK up to 256 QAM; Digital Data
2	50400 - 51400		10M0D7W	Earth- to- Space	59.6	25.6	Iowa Falls V-band Gateway		BPSK up to 256 QAM; Digital Data
3	50400 - 51400		5M00D7W	Earth- to- Space	59.6	28.6	Iowa Falls V-band Gateway		BPSK up to 256 QAM; Digital Data
4	37500 - 42000		100MD7W	Space- to- Earth			Iowa Falls V-band Gateway		BPSK up to 256 QAM; Digital Data
5	37500 - 42000		10M0D7W	Space- to- Earth			Iowa Falls V-band Gateway		BPSK up to 256 QAM; Digital Data
6	37500 - 42000		5M00D7W	Space- to- Earth			Iowa Falls V-band Gateway		BPSK up to 256 QAM; Digital Data
7	47200 - 50200		100MD7W	Earth- to- Space	59.6	15.6	Iowa Falls V-band Gateway		BPSK up to 256 QAM; Digital Data
8	47200 -		10M0D7W	Earth-	59.6	25.6	Iowa Falls		BPSK up to

#	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
	50200			to- Space			V-band Gateway		256 QAM; Digital Data
9	47200 - 50200		5M00D7W	Earth- to- Space	59.6	28.6	Iowa Falls V-band Gateway		BPSK up to 256 QAM; Digital Data



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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	50400 - 51400			10	10	0	360	-21.7	Iowa Falls V-band Gateway
2	37500 - 42000			10	10	0	360		Iowa Falls V-band Gateway
3	47200 - 50200			10	10	0	360	-21.7	Iowa Falls V-band Gateway



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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) Iowa Falls V-band Gateway to AST SpaceMobile (S3065) Non-Geo (U.S.-licensed satellite)



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E) Antenna Facilities

Site #	Site ID	Antenna ID	Units	Diameter (Meters)	Manufacturer	Model Number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
1	Iowa Falls V-band Gateway	Iowa Falls V-band Gateway	4	2.4	SVS SATELLITE SYSTEMS/SATRAK	400	352	4.5 AGL / undefined AMSL	

Max Gains(s):

Maximum total input power at antenna flange(Watts): 2.3

Maximum aggregate output EIRP for all carriers(dBW): 60.92

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.
- 5555 --- Prior to commencing operations in frequency bands shared with federal agencies, licensee must complete coordination with NTIA. The Licensee may begin operations in a shared band for the remainder of the license term after filing a notice, via supplement, with the Commission certifying to successful coordination in the authorized frequency band or bands. The licensee does not need to have completed coordination for all bands shared with federal services prior to beginning operations and may proceed iteratively based on coordination.
- 55481 --- Earth stations licensed pursuant to this authorization shall not claim protection from stations in the fixed or mobile services operating in the 37.5-40 GHz frequency band.
- 55482 --- Operations in the 47.2-48.2 GHz (Earth-to-space) frequency band are authorized. The licensee must not cause harmful interference to any UMFUS operations in the 47.2-48.2 GHz band, must accept interference from these operations, and must terminate transmissions on the affected frequencies immediately upon notification of harmful interference.
- 55483 --- Operations in the 50.4-51.4 GHz (Earth-to-space) frequency band are authorized. The licensee must not cause harmful interference to any UMFUS operations in the 50.4-51.4 GHz band, must accept interference from these operations, and must terminate transmissions on the affected frequencies immediately upon notification of harmful interference.
- 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.