UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

EARTH STATION AUTHORIZATION

Name: Spectrum Business Trust 2025-1
Call Sign: E080035
Authorization Type: Renewal
File Number: SES-RWL-20230227-00219

Grant Date: 2023-03-10 **Expiration Date:** 2038-04-14

Nature of Service: Mobile-Satellite Service

Class of Station: FES

A) Site Location(s):

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1	North Las Vegas	One Aerojet Way North Las Vegas, Clark, NV 98030	36 ° 14 ' 10 " N	115 ° 7 ' 3 W	585.98	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 Friday, April 14, 2023 (3 AM Eastern Standard Time) and ending Wednesday, April 14, 2038 (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	2180 - 2200		156KG7W	Space-to-Earth	0	0	NLV		QPSK Test Carrier
2	2180 - 2200		5M00D7W	Space-to-Earth			NLV		Amplitude and phase modulation digital t
3	2180 - 2200		1M25G7W	Space-to-Earth			NLV		Phase modulation digital test carrier
4	2180 - 2200		5M00G7W	Space-to-Earth			NLV		Phase modulation digital test carrier
5	2180 - 2200		1M70M7W	Space-to-Earth			NLV		OFDM phase modulation digital test carri
6	2180 - 2200		5M00V7W	Space-to-Earth			NLV		OFDM amplitude and phase modulation

#	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
									test
7	2180 - 2200		5M00M7W	Space-to-Earth			NLV		OFDM phase modulation digital test carri
8	2180 - 2200		1M70G7W	Space-to-Earth			NLV		Phase modulation digital test carrier
9	2180 - 2200		8K00G7W	Space-to-Earth			NLV		Phase modulation digital test carrier
10	2180 - 2200		8M00G7W	Space-to-Earth			NLV		Phase modulation digital test carrier
11	2180 - 2200		8M00V7W	Space-to-Earth			NLV		OFDM amplitude and phase modulation test
12	2180 - 2200		41K6G7W	Space-to-Earth	0	0	NLV		BPSK Calibration Signal
13	2180 - 2200		8M00D7W	Space-to-Earth			NLV		Amplitude and phase modulation digital t
14	2180 - 2200		8M00M7W	Space-to-Earth			NLV		OFDM phase modulation digital test carri
15	2180 - 2200		1M70V7W	Space-to-Earth			NLV		OFDM amplitude and phase modulation test
16	2180 - 2200		NON	Space-to-Earth	0	0	NLV		CW Calibration Carrier
17	2180 - 2200		200KG7W	Space-to-Earth			NLV		Phase modulation digital test carrier
18	2180 - 2200		1M70D7W	Space-to-Earth			NLV		OFDM amplitude and phase modulation test
19	2000 -		41K6G7W	Earth-	25	14.8	NLV		BPSK

#	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
	2020			to-Space					Calibration Signal
20	2000 - 2020		469KG7W	Earth-to-Space	15	-5.7	NLV		Phase modulation digital test carrier
21	2000 - 2020		8K00G7W	Earth-to-Space	10	7	NLV		Phase modulation digital test carrier
22	2000 - 2020		NON	Earth-to-Space	49.7	49.7	NLV		CW Carrier for Calibration
23	2000 - 2020		1M25G7W	Earth-to-Space	10	-15	NLV		Phase modulation digital test carrier
24	2000 - 2020		156KG7W	Earth-to-Space	10	-5.9	NLV		QPSK Test Carrier

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C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc Deg. Long. East Limit	Satellite Arc Deg. Long. West Limit	Elevation (Degrees) East Limit	Elevation (Degrees) West Limit	Azimuth (Degrees) East Limit	Azimuth (Degrees) West Limit	Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)

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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:

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1) North Las Vegas to ICO-G 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	North Las Vegas	NLV	1	2.4	General Dynamics	Prodelin	585.98	6.8 AGL / undefined AMSL	

Max Gains(s):

Maximum total input power at antenna flange(Watts): 44.7

Maximum aggregate output EIRP for all carriers(dBW): 49.7

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.

5 --- Licensee must notify the Commission when this earth station is no longer operational or when it has not been used to provide any service during any 6-month operation.

6 --- Licensee must comply with the license modification application and notification requirements of 47 CFR §§ 25.117 and 25.118, as applicable, to change the coordinates of its authorized earth station.

274 --- Operation in the 2000-2010 MHz and 2190-2200 MHz frequency bands must be on a non-interference-basis with respect to the primary-status systems.

90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by section 1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 CFR §§ 1.1307, 1.1308 and 1.1311)

90399 --- The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) do(es) not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b), 1.1310. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's updated OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.

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 and 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.