

GRANT
Basalt Technologies Corp.
SAT-LOA-20250310-00067

ICFS File No(s):	SAT-LOA-20250310-00067 ¹	GRANTED –in Part/DEFERRED-IN PART With Conditions  Space Bureau Satellite Programs and Policy Division
Licensee/Grantee:	Basalt Technologies Corp.	
Call Sign:	S3225	
Satellite Name:	BSLT-3 ²	
Orbital Location: (required station-keeping tolerance)	Non-geostationary satellite orbit (NGSO). Deploy and operate at 510 km (+/- 20 km) with an inclination angle of 97.45 degrees (+/- 1.5 degrees) and LTDN of 10:00 + 60 mins.	
Administration:	United States of America	
Nature of Service:	Earth Exploration Satellite Service (EESS), space operation service (SOS), and Mobile Satellite Service (MSS); to demonstrate the use of artificial intelligence to manage and control Earth imaging space craft in orbit. ³	
Scope of Grant:	Authority to construct, deploy and operate the BSLT-3 cubesat NGSO satellite.	
Service Area(s):	Global, subject to conditions in specific frequency bands.	
Frequencies:	MSS: 399.9-400.05 MHz (center frequency 400.0375 MHz, bandwidth 9.89 kHz) (Earth-to-space) (backup) SOS: 401-402 MHz (center frequency 401.2 MHz, bandwidth 9.89 kHz) (space-to-Earth) (backup) EEES/SOS: 2025-2110 MHz (center frequency 2074.3 MHz, bandwidth 220 kHz) (Earth-to-space) (primary) 2200-2290 MHz (center frequency 2268.8 MHz, bandwidth 39.2 kHz) (space-to-Earth) (primary, outside of US only)	
Unless otherwise specified herein, operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with the Federal Communications Commission’s rules not waived herein. This grant is also subject to the following conditions:		

¹ This application was placed on public notice on May 9, 2025. Space Station Applications Accepted for Filing, Public Notice, Report No. SAT-01917 (May 9, 2025). No comments were filed in response to the notice.

² Basalt’s constellation, Spirit-EEL, is composed of three-3U cubesats: BSLT-1, BSLT-2, and BSLT-3. At Basalt’s request, this grant is limited to the BSLT-3 satellite. We defer action on the BSLT-1 and BSLT-2 satellites. *See* Letter to Marlene H. Dortch, Secretary, FCC from George V. John, Counsel for Basalt (Jan. 15, 2026).

³ Basalt states that there will always be humans involved who will have final decision-making authority in every satellite operation decision. *See* Email to Jon Markman, Acting Division Chief, Satellite Programs and Policy Division from George John, Counsel for Basalt (April 22, 2025) in ICFS File No. SAT-LOA-20250310-00067.

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1. Basalt's request for its application to be processed under the rules for streamlined licensing of small satellites is GRANTED. We find that the operations requested in this application meet the criteria listed in section 25.122 of the Commission's rules, 47 CFR § 25.122, for streamlined small satellite applicants. We conclude that Basalt's operations are compatible with existing operations in the requested frequency bands and will not materially constrain future space station entrants from using the requested frequency bands.
2. Basalt's request for a waiver of the U.S. Table of Allocations, 47 CFR § 2.106, to use the 399.9-400.05 MHz band on a non-conforming, non-interference basis is GRANTED. The U.S. Table of Frequency Allocations allocates the 399.9-400.05 MHz band to the MSS on a primary basis for both Federal and non-Federal use. MSS use of the band is limited to non-voice, non-geostationary (NVNG) MSS. We find this non-conforming use for back-up services is in the public interest. Accordingly Basalt's operations in the 399.9-400.05 MHz band may not cause interference to, and must not claim protection from interference caused to it by any other lawfully operating station.
3. Space-to-Earth and Earth-to-space operations shall be strictly limited to durations when the BSLT-3 satellite is visible to the corresponding earth station locations listed in the Appendix of this grant, noting any additional restrictions within this grant. The only permissible exception to this condition is temporary UHF beacon operations during the BSLT-3 commissioning phase (first 3 days).
4. Transmissions in the 401-402 MHz band may only be made to/from earth stations coordinated with Federal agencies, including National Aeronautics and Space Administration (NASA), Department of Commerce/National Oceanic and Atmospheric Administration (DOC/NOAA), and the United States Air Force Spectrum Management Office (AFSMO). Any use of Federal ground stations shall be coordinated by Basalt's Federal government customers with AFSMO (jimmy.nguyen@us.af.mil), NASA (HQ-SatCoord@mail.nasa.gov) and DOC/NOAA (spectrum.coordinator@noaa.gov). A list of coordinated non-Federal earth stations is attached in the Appendix. Basalt shall provide the FCC with an updated list of coordinated non-Federal earth stations within ten business days following any changes to that list.
5. To protect NOAA radiosondes operations in the United States and Possessions, operations in the 401.2 MHz (space-to-Earth) frequency shall not exceed the long-term interference criteria limit of -162.4 dBW, as specified in Table 2 (Type C) of Recommendation ITU-R RS.1263-3.
6. Basalt's earth station transmissions in the 2025-2110 MHz band must be coordinated with fixed and mobile stations in the band (e.g. via the Society of Broadcast Engineers (SBE)).
7. BSLT-3's uplink (Earth-to-space) transmissions in the 2025-2110 MHz band from Awarua, New Zealand shall not exceed the duty cycle of 14% when there is line-of-sight with NOAA's SWFO satellite (NORAD ID: TBD).
8. For downlink (space-to-Earth) transmissions centered at 2268.8 MHz, Basalt shall limit the maximum BSLT-3 duty cycle to 36.4 percent per earth station.
9. The U.S. Table of Frequency Allocations allocates the 2200-2290 MHz band, *inter alia*, to space operations services (space-to-Earth) on a secondary basis for non-federal use. 47 CFR § 2.106. Basalt's operations in the band will be outside of the United States. We authorize Basalt to operate in this band subject to the laws, regulations and requirements applicable to any such operations in foreign jurisdictions. Transmissions within the space operations service shall be strictly limited to durations when Basalt's BSLT-3 space

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station referenced in this license are visible to corresponding earth station locations listed in the Appendix of this grant, subject to any additional restrictions in this grant.

10. Basalt's transmissions in the 2025-2110 MHz and 2200-2290 MHz, frequency bands may only be made to/from Federal earth stations or non-Federal earth stations coordinated with NASA, AFSMO, DOC/National Oceanic and Atmospheric Administration (NOAA), and the Department of the Navy (DON). A list of coordinated non-Federal earth stations is attached in the Appendix. Basalt shall provide the FCC with an updated list of coordinated non-Federal earth stations within ten business days following any changes to this list.
11. Basalt's request for a waiver of the Commission's rules requiring certain information to be submitted on the schedule S form is GRANTED. We find that the information submitted by Basalt in the narrative is sufficient to fulfill the informational requirements. 47 CFR § 25.114(c).
12. Basalt requests a waiver to operate in the 2025-2110 MHz bands stating there is no allocation for Space Operations in the band. The U.S. Table of Frequency Allocations, however, allocates the 2025-2110 MHz band, *inter alia*, for secondary non-federal Space Operations. 47 CFR § 2.106. Accordingly, Basalt's request for a waiver is moot. Basalt's operations must not cause harmful interference to, or claim protection from, stations of primary services to which frequencies are already assigned or to which frequencies may be assigned at a later date.
13. Unless extended by the Commission for good cause shown, this authorization will become null and void in the event that the BSLT-3 space station is not constructed and launched in accordance with the schedule set forth below:
 - a. In the event the BSLT-3 satellite is not launched and placed into the assigned orbit and begun operations in accordance with this grant by January 25, 2027 (one year), Basalt must post a surety bond in satisfaction of 47 CFR §§ 25.165(a) no later than February 24, 2027, and thereafter maintain on file a surety bond requiring payment in the event of a default in an amount, at minimum, determined according to the formula set forth in 47 CFR § 25.165(a)(1); and
 - b. Failure to post and maintain the surety bond will render this grant null and void without further Commission action. Failure to meet the milestone requirements of 47 CFR § 25.164(b) may result in Basalt's authorization being reduced to the number of satellites in use on the milestone date. Failure to comply with the milestone requirement will also result in the forfeiture of Basalt's surety bond.
14. The license term is six years and begins at 3:00 a.m. EST on the date that Basalt certifies to the Commission that the BSLT-3 space station is successfully placed into orbit and the operations fully conform to the conditions of this authorization. Basalt must also file a certification within five business days of placing the BSLT-3 space station into operation.⁴

Licensee/grantee is afforded thirty (30) days from the date of release of this action to decline the grant as conditioned. Failure to respond within this period will constitute formal acceptance of the grant as conditioned.

⁴ This license term will apply to the BSLT-1 and BSLT-2 space stations at the time of grant.

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This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 CFR § 0.261, and is effective upon release.

Station licenses are subject to the conditions specified in Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. § 309(h).

Action Date:	January 23, 2026
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Term Dates	From: See Conditions
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To: See Conditions

Approved:

John W. Whaley
Associate Division Chief, Satellite Programs and Policy Division
Space Bureau

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Attachment
Earth Stations

Transmit and Receive

San Francisco, CA USA	(UHF transmit/receive; S-band transmit only)
Dundee Scotland	(S-band)
Dubai, UAE	(S-band)
Awarua, New Zealand	(S-band)
Guildford, United Kingdom	(S-band)
Zallaq, Bahrain	(S-band)
Singapore	(S-band)
Cordoba, Argentina	(S-band)
Dublin, Ireland	(S-band)