



File # SAT-LOA-20210119-00012

Call Sign S3080 Grant Date May 4, 2021  
(or other identifier)

Term Dates

From See conditions To: See conditions

Approved: Merissa L. Velez

Merissa L. Velez  
Chief, Satellite Policy Branch

Approved by OMB  
3060-0678

Date & Time Filed: Jan 19 2021 3:36:26:113PM  
File Number: SAT-LOA-20210119-00012  
Callsign/Satellite ID: S3080

\* with condition S

APPLICATION FOR SATELLITE SPACE STATION AUTHORIZATIONS FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	FCC Use Only
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#### APPLICANT INFORMATION


Enter a description of this application to identify it on the main menu:

Capella SAR Constellation Block 2

1-8. Legal Name of Applicant			
Name:	Capella Space Corp.	Phone Number:	415-481-4727
DBA Name:		Fax Number:	
Street:	438 Shotwell St.	E-Mail:	
City:	San Francisco	State:	CA
Country:	USA	Zipcode:	94110 —
Attention:	Mr Daniel J Connors Jr.		

# ATTACHMENT TO GRANT

Capella Space Corp.  
IBFS File No. SAT-LOA-20210119-00012

<b>IBFS File No(s):</b>	SAT-LOA-20210119-00012 <sup>1</sup>	<b>GRANTED With Conditions</b>  <b>International Bureau Satellite Division</b>
<b>Licensee/Grantee:</b>	Capella Space Corp.	
<b>Call Sign:</b>	S3080	
<b>Satellite Name:</b>	Capella-5, Capella-6	
<b>Orbital Location: (required station-keeping tolerance)</b>	Non-geostationary satellite orbit (NGSO), (575 km (± 25 km) altitude, at an inclination of 53 degrees (± 2 degrees), Right Ascension of Ascending Node (RAAN) 106 degrees (± 30 degrees) <sup>2</sup>	
<b>Administration:</b>	United States of America	
<b>Nature of Service:</b>	Earth Exploration Satellite Service (EESS)	
<b>Scope of Grant:</b>	Authority to construct, deploy, and operate two NGSO satellites <sup>3</sup>	
<b>Service Area(s):</b>	Global, subject to limitations in specific frequency bands	
<b>Frequencies:</b>	8025-8400 MHz (center frequency 8212.5 MHz, bandwidth 337.5 megahertz) (space-to-Earth)  Synthetic Aperture Radar (SAR): 9300-9900 MHz (center frequency 9600 MHz, bandwidth 600 megahertz)  Telemetry, Tracking and Command frequencies: 8025-8400 MHz (center frequency 8027 MHz; bandwidth 1.4 megahertz) (space-to-Earth) 2025-2110 MHz (center frequency 2036 MHz; bandwidth 1.4 megahertz) (Earth-to-space)  Intersatellite Links: 1525.0-1559.0 MHz transmitting (space-to-space) and 1626.5-1660.0 MHz receiving (space-to-space) inter-satellite links with the Inmarsat system, including all the satellites on the Commission's "ISAT" list <sup>4</sup> (Using frequencies assigned for operations by Inmarsat BGAN terminals).	

<sup>1</sup> The application was placed on public notice on February 12, 2021. *Policy Branch Information Satellite Space Station Applications Accepted for Filing*, Public Notice, Report No. SAT-01529 (Feb. 12, 2021). No comments were filed. We note that Capella also filed an earth station application to request special temporary authority (STA) to operate an experimental ground-based system for calibrating the Capella-5 and Capella-6 synthetic aperture radar systems following deployment of the radars in space. *See Capella Radar Calibration STA Request*, IBFS File No. SES-STA-20210316-00513. We further note that Capella filed a corresponding space station application to request STA for on-orbit reception by Capella-5 and Capella-6 of the calibration signal generated by the experimental ground-based system. *See Capella Radar Calibration STA Request (Space Segment)*, IBFS File No. SAT-STA-20210401-00044.

<sup>2</sup> We note that the RAAN initially submitted in this application for Capella-5 and Capella-6 was an estimate. *See Capella Space Corp., Waiver Requests at 7*. Capella recently provided confirmation of an updated RAAN, as well as other orbital parameters, for Capella-5 and Capella-6. *See Letter from Paul Caritj, Counsel for Capella Space Corp., to Marlene H. Dortch, Secretary, FCC, dated April 26, 2021*.

<sup>3</sup> Capella was previously granted authority to construct, deploy, and operate three NGSO satellites, known as Capella-2, Capella-3, and Capella-4, to operate in the Earth Exploration Satellite Service, conducting synthetic aperture radar (SAR). *See IBFS File No. SAT-LOA-20200914-00108* (granted Dec. 17, 2020). *See also Experimental Authorization WL2XAD* (granted June 26, 2020); *Experimental Authorization WJ2XJE* (granted Aug. 31, 2018, modification granted Sept. 4, 2020).

<sup>4</sup> *See Inmarsat, Inc. Request to Streamline Licensing of L-band Mobile-Satellite Service Terminals Using Inmarsat Satellites as Points of Communication*, Order, 23 FCC Rcd 15268, 15270, para. 8 (Int'l Bur., Sat. Div. 2008). The current "ISAT" list is reflected in the "Approved Space Station List," <https://www.fcc.gov/approved-space-station-list>.

**ATTACHMENT TO GRANT**  
Capella Space Corp.  
IBFS File No. SAT-LOA-20210119-00012

Operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with Federal Communication Commission's rules not waived herein. This grant is also subject to the following conditions:

1. Capella must timely provide the Commission with the information required for Advance Publication, Coordination, and Notification of the frequency assignment(s) for this constellation, including due diligence information, pursuant to Articles 9 and 11 of the ITU Radio Regulations. This authorization may be modified, without prior notice, consistent with the coordination of the frequency assignment(s) with other Administrations. See 47 CFR § 25.111(b). Capella is responsible for all cost-recovery fees associated with the ITU filings. 47 CFR § 25.111(d).
2. Capella's request for its application to be processed under the rules adopted for streamlining licensing of small satellites<sup>5</sup> is GRANTED. The operations requested in this application meet the criteria for streamlined small satellite applicants.<sup>6</sup> We conclude that Capella's operations are compatible with existing operations in the requested frequency bands, and we find that the type of operations proposed by Capella: short, geographically limited pulses in the SAR band, data downloads and command uplinks involving a limited number of earth stations and occurring only when the satellites are in view of the earth station, as well as operations with the Inmarsat system effectively as one user terminal among a much larger user community—will not materially constrain future space station entrants from using the requested frequency bands.<sup>7</sup>
3. Capella's request for a waiver of the U.S. Table of Frequency Allocations, 47 CFR § 2.106, to receive inter-satellite signals from the Inmarsat satellite system in the 1525.0-1559.0 MHz frequency band is GRANTED, on an unprotected basis. Although the allocations in this frequency band do not include a directional indicator for space-to-space communications, reception by the Capella satellites of these frequencies will not in any way alter the interference environment, as the received signal will be indistinguishable in its technical characteristics from signals transmitted in the allocated space-to-Earth direction.

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<sup>5</sup> *Streamlining Licensing Procedures for Small Satellites*, Report and Order, FCC 19-81, 34 FCC Rcd 13077 (2019) (*Small Satellite Report and Order*).

<sup>6</sup> See 47 CFR § 25.122; *see also* Capella Space Corp., Legal Narrative at 5-6 (specifying compliance with the qualifying criteria in 47 CFR § 25.122(c)).

<sup>7</sup> See 47 CFR § 25.122(c)(9), (d)(3). Capella states that its operations in the 9300-9600 bands for SAR imaging generate brief pulses using a very high directivity antenna—thus minimizing both the active time as well as the affected areas on the ground. Capella Space Corp., Legal Narrative at 10; Technical Attachment at 19. With regard to the 8025-8400 MHz band, Capella states that it will coordinate operations with federal agencies, including authorized bandwidth, and that it will comply with both ITU PFD limits and Space Frequency Coordination Group PFD recommendations, designed to facilitate successful coordination of EESS frequencies, thereby promoting efficient use of spectrum. Capella Space Corp., Legal Narrative at 7-8, Technical Attachment at 15, 21. Capella states that its uplink operations in the 2025-2110 MHz band shall not cause harmful interference to Federal and non-Federal stations operating in accordance with the Table of Frequency Allocations, and that a coordination agreement has been submitted to NASA and other federal agencies to ensure that Capella uplinks do not interfere with critical systems of these agencies. Capella Space Corp., Legal Narrative at 8-9. Capella's operations in the 2025-2110 MHz band are limited to command uplinks from a specified list of earth stations. *See* Appendix A. Capella states that its proposed use of the 1626.5-1660.0 MHz bands is on a non-conforming basis and that transmissions will occur only on frequencies that Inmarsat assigns to the spaceborne Inmarsat BGAN terminal onboard the Capella satellite, consistent with its coordination agreements with other operators in the band, thus ensuring that no other licensee will be transmitting at the same time and on the same frequency as a Capella space-to-space transmission. Capella Space Corp., Technical Attachment at 3, 20. Capella further states that its transmissions in the 1626.5-1660.0 MHz band will be extremely brief and infrequent, to acknowledge receipt of tasking requests and other data received from the Inmarsat satellites, and to transmit critical health and status telemetry periodically, when no ground station is available. Capella Space Corp., Legal Narrative at 4; Technical Attachment at 3; Waiver Requests at 4. In the 1525-1559 MHz band, signals transmitted by Inmarsat satellites will be with the same technical parameters as Inmarsat would use to communicate with its authorized MSS terminals on the earth's surface. Capella Space Corp., Technical Attachment at 20; Waiver Requests at 3.

## ATTACHMENT TO GRANT

Capella Space Corp.

IBFS File No. SAT-LOA-20210119-00012

4. Capella's request for a waiver of the Table of Frequency Allocations, 47 CFR § 2.106, to transmit inter-satellite signals to the Inmarsat satellite system in the 1626.5-1660.0 MHz frequency band on an unprotected, non-interference basis, is GRANTED. The allocation for the Mobile-Satellite Service in which the Inmarsat system operates and that encompasses these bands does not include a space-to-space directional indicator. The signals transmitted from Capella's system will be used on a limited basis for data requiring transmission prior to available downlink opportunities directly to earth stations.<sup>8</sup> Capella states that these transmissions will only occur on frequencies that Inmarsat assigns to the spaceborne Inmarsat BGAN terminal onboard the Capella satellites, and that Inmarsat will assign channels to Capella consistent with its coordination agreements with other operators in the band, ensuring that no other licensee will be transmitting at the same time and on the same frequency as Capella space-to-space transmissions, and preventing harmful interference.<sup>9</sup> Capella indicates that the primary anticipated use of this "uplink" is to acknowledge receipt of tasking requests and other data delivered via the satellite-to-satellite "downlink" (i.e., transmissions from Inmarsat satellites).<sup>10</sup> In addition, it states that these space-to-space uplink capabilities will be used to provide critical health and status telemetry periodically, when no ground station is available. Capella states that the communication protocol this link uses is designed to transmit the minimum amount of information necessary and only actively transmit when there is information to send.<sup>11</sup> Thus, Capella anticipates that any space-to-space transmissions from the Capella satellite will be extremely brief and infrequent, preventing any harmful interference to other operators even absent the time- and frequency-based coordination built into Inmarsat's channel-assignment process.<sup>12</sup>
5. Capella's request for a waiver of the section 25.202(g)(1), 47 CFR § 25.202(g)(1), to conduct its TT&C uplink transmissions at 2035-2037 MHz, is GRANTED. Section 25.202(g)(1) anticipates that satellite systems will conduct telemetry, tracking and command (TT&C) operations using spectrum at the edge of or within their assigned bands, however, Capella has no assigned uplink band for customer traffic, and therefore no band edge at which to conduct TT&C, thus a waiver of section 25.202(g)(1) is warranted.
6. Capella's request for a waiver of limitations in Schedule S,<sup>13</sup> is GRANTED. As required by the Commission's rules, Capella submitted a completed Schedule S for its application, which contains certain technical information in a prescribed form. Capella found that it could not accurately describe its system in certain respects due to limitations in Schedule S itself. Capella cites six limitations in Schedule S that affected how the Schedule S was completed: (1) the inability to enter "not applicable" for Section 25.114(c)(4)(v); (2) the need to defer submission of the final right ascension of the ascending node (RAAN) parameter until it is known with certainty; (3) the inapplicability of the field "Polarization Alignment Relative to the Equatorial Plane" for antennas with linear polarizations such as Capella's SAR emitter, even though Capella's system is an NGSO, and thus will not operate with a consistent alignment relative to the equatorial plane; (4) the inability to reflect the switchable polarization of Capella's payload downlink beam at 8043.75–8381.25 MHz; (5) the inability to indicate that a specific channel plan for Capella's space-to-space links will operate on channels, and with bandwidths, to be specified by Inmarsat; (5) the inability to reflect that the

<sup>8</sup> See Capella Space Corp., Legal Narrative at 4; Technical Attachment at 3; Waiver Requests at 2.

<sup>9</sup> Capella Space Corp., Technical Attachment at 20; Waiver Requests at 3-4.

<sup>10</sup> Capella Space Corp., Legal Narrative at 11; Waiver Requests at 4. This "downlink" is in the 1525.0-1559.0 MHz frequency band, as indicated above.

<sup>11</sup> Capella Space Corp., Waiver Requests at 2. Capella states that, among other things, use of inter-satellite links with its SAR system will enable relay of customer observation requests immediately, and that such rapid tasking capabilities will support rapid imaging for humanitarian disaster relief efforts and as well as reactive imaging capabilities for governmental and other users. *Id.*

<sup>12</sup> *Id.* at 4.

<sup>13</sup> Capella Space Corp., Waiver Requests at 6-9.

**ATTACHMENT TO GRANT**  
Capella Space Corp.  
IBFS File No. SAT-LOA-20210119-00012

PFD and EIRP density of Capella's space-to-space transmissions will vary depending on bandwidths specified by Inmarsat; (6) the inability to permit a two-digit value for the field "Active Service Arc End Angle," making it impossible to properly represent full-arc coverage (i.e. 0-360 degrees). To the extent necessary, Capella requests that the Commission waive these aspects of Schedule S in light of these limitations. In view of the fact that Capella has implemented a workaround for each of these limitations to allow entry of the required information, with the exception of the final RAAN parameter, which Capella states that it will provide closer to the launch date once it is known with certainty,<sup>14</sup> we find that a waiver of the requirement to complete certain aspects or fields of Schedule S is warranted.

7. Operations pursuant to this authorization must not cause harmful interference to stations operating in the 2025-2110 MHz band in accordance with the U.S. Table of Frequency Allocations. See 47 CFR § 2.106, footnote US347.
8. Transmissions in the 2025-2110 and 8025-8400 MHz frequency bands may only be made to/from Federal earth stations or earth stations coordinated with the National Aeronautics and Space Administration (NASA), the Air Force Spectrum Management Office (AFSMO), DOC/NOAA, and the Department of the Navy (DON). A list of coordinated non-Federal earth stations is attached in Appendix A. Capella shall provide the FCC with an updated list of coordinated non-Federal earth stations within ten business days following any changes to this list.
9. Transmissions in the 2025-2110 MHz frequency band are only authorized in the center frequency 2036 MHz (Earth-to-space) with a bandwidth of 1.4 MHz and shall not exceed an equivalent isotropic radiated power (e.i.r.p.) of 41 dBW.
10. Operations in the 8025-8400 MHz band shall comply with the signed Coordination Agreement between Capella Space, NASA, and other Federal Agencies for Satellite Missions Operated in the 8025-8400 MHz band.
11. Power flux-density limits from operation in the 8025-8400 MHz band must not exceed the limits in No. 22.5 and Table 21-4 of the ITU Radio Regulations, must meet the limits/protection criteria in Recommendation ITU-R SA.1157-1, and must follow the guidelines in Recommendation ITU-R SA. 1810.
12. EESS (active) operations in the 9500-9800 MHz (space-to-Earth) frequency band are allocated on a secondary basis in the U.S. Table of Allocations, 47 CFR § 2.106. Accordingly, Capella must accept interference from and not cause interference to any services, including Federal operations, operating on a primary basis in the 9500-9800 MHz band. Capella's systems are designed to avoid any harmful interference with other satellite systems—including other EESS systems—and protected terrestrial systems.<sup>15</sup> Additionally, due to the on-demand nature of Capella's service, its payload and sensing transmissions will occur infrequently and with low PFD on the ground, further minimizing the risk of interference while these systems are active. The Capella system will only transmit for brief periods, and over a limited geography at a given moment in time. Transmissions from the Capella SAR system thus will have no material effect on terrestrial radar systems.<sup>16</sup>
13. Capella must coordinate physical operations of spacecraft with any operator using similar orbits, for the purpose of eliminating collision risk and minimizing operational impacts. The orbital parameters specified in this grant are subject to change based on such coordination.
14. Upon receipt of a conjunction warning from the 18<sup>th</sup> Space Control Squadron or other source, Capella must review and take all possible steps to assess the collision risk, and mitigate collision risk if necessary. As

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<sup>14</sup> See n.2, *supra*.

<sup>15</sup> See Capella Space Corp., Technical Attachment at 4-5.

<sup>16</sup> See *id.* at 18-20.

**ATTACHMENT TO GRANT**  
Capella Space Corp.  
IBFS File No. SAT-LOA-20210119-00012

appropriate, steps to assess and mitigate should include, but are not limited to: contacting the operator of any active spacecraft involved in such warning; sharing ephemeris data and other appropriate operational information with any such operator; and modifying spacecraft attitude and/or operations.

15. Unless extended by the Commission for good cause shown, this authorization will become null and void in the event the Capella-5 and Capella-6 space stations are not constructed and launched in accordance with the schedule set forth in section 25.164 of the Commission's rules, as follows:
- a. In the event that the Capella-5 and Capella-6 space stations have not been launched, placed into the assigned orbit, and begun operations in accordance with this grant by **May 4, 2022**,<sup>17</sup> Capella must post a surety bond in satisfaction of 47 CFR §§ 25.165(a)(1) & (b) no later than **June 3, 2022**, 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. Capella must launch the Capella-5 and Capella-6 space stations, place them into the assigned orbit, and operate the space stations in accordance with this grant no later than **May 4, 2022**. 47 CFR § 25.164(b).
16. The license term is six years and will begin on 3 a.m. EST on the date that Capella certifies to the Commission that the Capella-5 and Capella-6 space stations have been successfully placed into orbit and its operations fully conform to the terms and conditions of this authorization. Capella must file such certification within five business days of placing the Capella-5 and Capella-6 space stations into operation.

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.

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).

<b>Action Date:</b>	May 4, 2021	
<b>Term Dates</b>	<b>From:</b> see conditions	<b>To:</b> see conditions

**Approved:**



Merissa L. Velez  
Chief, Satellite Policy Branch

<sup>17</sup> We note that since this application is being processed under the rules adopted for streamlined licensing of small satellites adopted in FCC 19-81, which are now effective, the requirement for Capella to post a surety bond in accordance with 47 CFR § 25.165(a)(1) & (b) is deferred by one year following the date of grant in accordance with the grace period adopted in FCC 19-81. See 47 CFR 25.165(a); *Small Satellite Report and Order*, 34 FCC Rcd at 13112-13, paras. 93-97.

**ATTACHMENT TO GRANT**  
Capella Space Corp.  
IBFS File No. SAT-LOA-20210119-00012

**Appendix A**

Earth Station 1. Svalbard, Norway

Earth Station 2. Punta Arenas, Chile

Earth Station 3. Punta Arenas, Chile

Earth Station 4. Troll, Antarctica

Earth Station 5. Boardman, OR

Earth Station 6. Kileville, OH

Earth Station 7. Kapolei, HI

Earth Station 8. Hartebeesthoek, South Africa

Earth Station 9. Awarua, New Zealand

Earth Station 10. Nemea, Greece

Earth Station 11. Cape Town, South Africa

Earth Station 12. Dublin, Ireland

Earth Station 13. Vasteras, Sweden

Earth Station 14. Manama, Bahrain

Earth Station 15. Sydney, Australia

Earth Station 16. Seoul, South Korea

9–16. Name of Contact Representative

Name:	Capella Space Corp.	Phone Number:	703-962-0364
Company:		Fax Number:	
Street:	438 Shotwell St.	E-Mail:	dan.connors@capellaspace.com
City:	San Francisco	State:	CA
Country:	USA	Zipcode:	94110 –
Attention:		Relationship:	

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a.

(N/A) a1. Earth Station

☒ a2. Space Station

b.

☒ b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive–Only Station

(N/A) b3. Amendment to a Pending Application

(N/A) b4. Modification of License or Registration

(N/A) b5. Assignment of License or Registration

(N/A) b6. Transfer of Control of License or Registration

(N/A) b7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive–Only Station Using Non–U.S. Licensed Satellite

☐ b9. Letter of Intent to Use Non–U.S. Licensed Satellite to Provide Service in the United States

☐ b10. Replacement Satellite Application – no new frequency bands

☐ b11. Replacement Satellite Application – new frequency bands (Not eligible for streamlined processing)

☐ b12. Petition for Declaratory Ruling to be Added to the Permitted List

(N/A) b13. Other (Please specify)



<p>17c. Is a fee submitted with this application?</p> <p><input checked="" type="radio"/> If Yes, complete and attach FCC Form 159.</p> <p>If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).</p> <p><input type="radio"/> Governmental Entity    <input type="radio"/> Noncommercial educational licensee</p> <p><input type="radio"/> Other (please explain):</p>					
<p>17c. Fee Classification    CLW – Space Station (Non–Geostationary)</p>					
<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station:</p> <p>Not Applicable</p>					
<p>19. If this filing is an amendment to a pending application enter:</p> <table border="0"> <tr> <td>(a) Date pending application was filed:</td> <td>(b) File number of pending application:</td> </tr> <tr> <td>Not Applicable</td> <td>Not Applicable</td> </tr> </table>		(a) Date pending application was filed:	(b) File number of pending application:	Not Applicable	Not Applicable
(a) Date pending application was filed:	(b) File number of pending application:				
Not Applicable	Not Applicable				

## TYPE OF SERVICE

<p>20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:</p> <p> <input type="checkbox"/> a. Fixed Satellite  <input type="checkbox"/> b. Mobile Satellite  <input type="checkbox"/> c. Radiodetermination Satellite  <input checked="" type="checkbox"/> d. Earth Exploration Satellite  <input type="checkbox"/> e. Direct to Home Fixed Satellite  <input type="checkbox"/> f. Digital Audio Radio Service  <input type="checkbox"/> g. Other (please specify)         </p>	
<p>21. STATUS: Choose the button next to the applicable status. Choose only one.</p> <p> <input type="radio"/> Common Carrier    <input checked="" type="radio"/> Non-Common Carrier         </p>	<p>22. If earth station applicant, check all that apply.</p> <p>Not Applicable</p>
<p>23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:</p> <p> <input type="radio"/> Connected to a Public Switched Network    <input type="radio"/> Not connected to a Public Switched Network    <input checked="" type="radio"/> N/A         </p>	
<p>24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).</p> <p> <input type="checkbox"/> a. C-Band (4/6 GHz)    <input type="checkbox"/> b. Ku-Band (12/14 GHz)  <input checked="" type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.)            Frequency Lower:    Frequency Upper: (Please specify additional frequencies in an attachment)         </p>	

## TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.

- (N/A) a. Fixed Earth Station  
(N/A) b. Temporary–Fixed Earth Station  
(N/A) c. 12/14 GHz VSAT Network  
(N/A) d. Mobile Earth Station  
☐ e. Geostationary Space Station.  
☒ f. Non–Geostationary Space Station  
☐ g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY: Not Applicable

## PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an "X" in the box(es) next to all that apply.) Not Applicable

## ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.

☐ Yes ☒ No  
ODAR

## ALIEN OWNERSHIP

Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

29. Is the applicant a foreign government or the representative of any foreign government?	<input type="radio"/> Yes <input checked="" type="radio"/> No
30. Is the applicant an alien or the representative of an alien?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.	Organization

#### BASIC QUALIFICATIONS

<p>35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Waiver Requests</p>
<p>36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explanation of circumstances.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explanation of circumstances.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhibit, an explanation of the circumstances.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>

40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes. ☒ Yes ☐ No

42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43. ☐ Yes ☒ No

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station? United States of America

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Additional deployment of two earth exploration satellites to provide synthetic aperture radar imagery of the earth

Legal Narrative

43a. Geographic Service Rule Certification

By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.

☒ A

By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.

☐ B

By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.

☐ C

Inmarsat Letter

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applicable response.)		
<div style="display: flex; flex-direction: column; gap: 10px;"> <div><input type="radio"/> Individual</div> <div><input type="radio"/> Unincorporated Association</div> <div><input type="radio"/> Partnership</div> <div><input checked="" type="radio"/> Corporation</div> <div><input type="radio"/> Governmental Entity</div> <div><input type="radio"/> Other (please specify)</div> </div>		
45. Name of Person Signing Daniel J. Connors Jr.	46. Title of Person Signing General Counsel	
47. Please supply any need attachments. <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <span>1: Technical Attachment</span> <span>2:</span> <span>3:</span> </div>		
<p><b>WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT</b>  (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION  (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).</p>		



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