



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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Report No. SAT-01584

Friday October 8, 2021

Satellite Policy Branch Information Space Station Applications Accepted for Filing

The applications listed below have been found, upon initial review, to be acceptable for filing. The Commission reserves the right to return any of the applications if, upon further examination, it is determined that the application is not in conformance with the Commission's rules or its policies. Consideration of each satellite application in this Public Notice may depend on the Commission's action on another satellite application earlier in the queue. Petitions, oppositions, and other pleadings filed in response to this notice should conform to Section 25.154 of the Commission's rules, unless otherwise noted. 47 C.F.R. § 25.154.

SAT-APL-20210921-00125 E S3092 Astranis Bermuda Ltd.
Date Filed: 09/21/2021 17:46:49:78600
Amendment to PDR/PPL

Astranis Bermuda Ltd. amends its request for U.S. market access for its Arcturus space station (also known as Aurora 4A) at the 163° W.L. orbital location, including its request to add the Arcturus space station to the Commission's Space Station Permitted List. Specifically, Astranis clarifies that it seeks to operate Arcturus with a single gateway earth station in the United States in the 19.3-19.4 GHz and 19.6-19.7 GHz (space-to-Earth) and 29.25-29.3 GHz (Earth-to-space) bands. Astranis also clarifies that it seeks market access to operate Arcturus in the 18.2-19.3 GHz and 19.7-20.2 GHz bands (space-to-Earth) and 28.0-29.1 GHz and 29.3- 30.0 GHz bands (Earth-to-space) for its service links, and the 18.2-19.4 GHz and 19.6-20.2 GHz bands (space-to-Earth) and 28.0-29.1 and 29.25-30.0 GHz bands (Earth-to-space) for additional gateway operations.

SAT-LOA-20210824-00109 E S3100 Capella Space Corp.
Date Filed: 08/24/2021 14:35:13:25600
Launch and Operating Authority

Capella Space Corp. requests authority to construct, deploy and operate a two low-Earth orbit, non-geostationary satellites that would operate in the Earth-Exploration Satellite Service (EESS), conducting synthetic aperture radar (SAR) imaging. Capella Space requests authority to operate in the following frequency bands: 9300-9900 MHz for SAR imaging; 8025-8400 MHz (space-to-Earth) for the EESS downlink; 2025-2110 MHz (Earth-to-space) for a command uplink; 8025-8400 MHz (space-to-Earth) for a telemetry and tracking downlink; and 1525.0-1559.0 MHz transmitting (space-to-space) and 1626.5-1660.0 MHz receiving (space-to-space) for inter-satellite links with the Inmarsat system, including all the satellites on the Commission's "ISAT" list. Specifically, Capella Space requests to operate using a center frequency of 9600 MHz and a bandwidth of 600 MHz for SAR imaging, a center frequency of 8212.5 MHz and bandwidth of 337.5 MHz for its EESS downlink, a center frequency of 2036 MHz and bandwidth of 1.4 MHz for its space operations uplink, and a center frequency of 8027 MHz and bandwidth of 1.4 MHz for its space operations downlink. In addition, Capella Space seeks special temporary authority to allow the Capella-7 and Capella-8 satellites to each receive a signal from a single earth station operating in the 9400-9900 MHz band (Earth-to-space) for a period of up to 30 days following deployment, and then intermittently thereafter, in order to radiometrically calibrate radar measurements. Capella Space requests waiver of the Table of Frequency Allocations, Section 2.106 of the Commission's rules, to permit Capella Space to operate inter-satellite links with the Inmarsat system in the 1525.0-1559.0 MHz and 1626.5-1660.0 MHz frequency bands, and to permit Earth-to-space transmissions on a temporary basis in the 9400-9900 MHz band to calibrate Capella's SAR system. Capella Space also requests a waiver of section 2.106 and a conditional waiver of section 25.202(g)(1) of the Commission's rules, for TT&C-only operation using spectrum not at the edge of or within assigned frequency bands, and requests waiver of several Form 312 - Schedule S technical information requirements. Capella Space requests that its application be processed in accordance with the small satellite licensing procedures adopted in FCC 19-81.

Date Filed: 08/12/2021 14:17:17:33600

Special Temporary Authority

Spaceflight, Inc. requests special temporary authority to deploy and operate a non-geostationary spacecraft, to be known as Sherpa-LTC1, for a period not to exceed 180 days. Sherpa-LTC1 would be placed in sun synchronous orbit (SSO) at an altitude of 525 km \pm 25 km at an inclination of 97.59°, and would deploy up to eight spacecraft during a six-hour period. Then, Sherpa-LTC1 would initiate a secondary demonstration mission, including demonstration of a propulsion system by lowering Sherpa-LTC1 to an orbital altitude of approximately 500 km, where it would deploy up to five additional spacecraft, as well as a demonstration of sensors and command and control systems on the spacecraft, before it is deactivated and left to deorbit naturally. For Sherpa-LTC1's primary mission phase, Spaceflight seeks authority to operate an inter-satellite link transmitting to the Globalstar system using a center frequency of 1616.25 MHz and bandwidth of 2.5 MHz, and to operate an S-band receive antenna using a center frequency of 2075 MHz and a bandwidth of 300 KHz. For Sherpa-LTC1's secondary demonstration mission phase, Spaceflight seeks to operate a UHF uplink using a center frequency of 402.9 MHz and bandwidth of 40 KHz, a UHF downlink using a center frequency of 400.5 MHz and bandwidth of 40 KHz, two S-band uplinks using the 2025-2110 MHz band with bandwidths of 300 KHz and 5.0 MHz, respectively, and an S-band downlink using the 2200-2290 MHz band with a bandwidth of 500 KHz. Spaceflight also states that Sherpa-LTC1 would incorporate a Global Positioning System (GPS) receive unit. Spaceflight seeks waiver of Section 25.113(g) of the Commission's rules and waivers of the U.S. Table of Frequency Allocations, Section 2.106 of the Commission's rules.

For more information concerning this Notice, contact the Satellite Division at 202-418-0719; TTY 1-888-835-5322.