

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

SpaceX Services, Inc. (“SpaceX Services”), pursuant to Section 25.120 of the Commission’s rules, hereby requests Special Temporary Authority (“STA”) to allow communications for a period of 30 days between its authorized user earth stations (call signs E190066, E210127, E210309, E210310, and E220009) and satellites operated by its sister company, Space Exploration Holdings, LLC (“SpaceX”), using Ku- and Ka-band spectrum (call sign S2983/S3018).¹

This application requests temporary authority to authorize communications between SpaceX satellites and user earth stations at elevation angles no less than 10 degrees in polar regions—i.e., at latitudes above 53 degrees. This application does not seek any change in the technical or operating characteristics of the SpaceX satellites and SpaceX Services earth stations except for this narrow change to the minimum elevation angle observed in polar regions. This temporary operation will enable SpaceX to speed deployment of its high-speed, low-latency service to polar regions in the interim period before SpaceX’s system is sufficiently deployed to provide polar service at its already authorized 25-degree minimum elevation angle. Consistent with its existing authorizations, SpaceX Services will operate these user terminals in the 10.7-12.7 GHz (space-to-Earth) and 14.0-14.5 GHz (Earth-to-space) frequency bands.

The Commission has good cause to approve this request quickly. Granting this STA would serve the public interest by enabling SpaceX Services to deploy high-speed, low-latency, and more reliable service in polar regions of the United States in the period before SpaceX’s system is sufficiently deployed to provide service at its already-authorized 25-degree minimum elevation angle. This will speed the deployment of next-generation satellite service to some of the most underserved areas of the country, driving high-speed, low-latency broadband connectivity that will help consumers connect to work, school, healthcare, and government services.

SpaceX Services will operate on a non-interference basis. Consistent with SpaceX’s space station authorization, SpaceX Services will observe the applicable equivalent power flux-density (“EPFD”) limits set forth in Article 22 and Resolution 76 of the ITU Radio Regulations and the applicable power flux-density (“PFD”) limits set forth in the Commission’s rules and Article 21 of the ITU Radio Regulations, which the Commission has found sufficient to protect GSO systems and terrestrial systems, respectively, against harmful interference. Nonetheless, in the extremely unlikely event that harmful interference should occur due to transmissions to or from its earth stations, SpaceX Services will take all reasonable steps to eliminate the interference. Should an issue arise, SpaceX Services can be reached at satellite-operators-pager@spacex.com, which links to the pagers of appropriate technical personnel 24/7.

For the foregoing reasons, the Commission should find that the authorization of these operations in polar regions would serve the public interest and grant an STA for a period of 30 days as soon as possible.

¹ See *Space Exploration Holdings, LLC*, 36 FCC Rcd. 7995 (2021).