

Applicant: SpaceX Services, Inc.

Call Signs: E210059

File No.: SES-STA-20210330-00594

SpaceX Services, Inc. ("SpaceX Services") is granted special temporary authority (STA) , beginning April 16, 2021, for 60 days, to operate its fixed earth station located in Lunenburg, VT with the SpaceX NGSO satellite system (Call Signs S2983/3018) in the 28.35-29.1 GHz and 29.5-30.0 GHz (Earth-to-space) and 17.8-18.6 GHz and 18.8-19.3 GHz (space-to-Earth) frequency bands under the following conditions:

1. Operations will not exceed the operational power limits and parameters requested in IBFS File number SES-LIC-20210322-00572 and coordinated to protect terrestrial and space systems in shared spectrum bands. Specifically, it 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,
2. All operations under this grant of STA shall be on an unprotected, non-harmful interference basis. SpaceX Services shall not cause harmful interference to and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
3. In the event of any harmful interference SpaceX Services shall cease operations immediately upon notification of such interference, and shall immediately inform the Commission, in writing, of such an event.
4. The use of space-to-Earth operations in the 17.8-18.6 GHz and 18.8-19.3 GHz (space-to-Earth) frequency bands must be in accordance with any signed coordination agreement between SpaceX and U.S. Federal operators in accordance with footnote US334 to the United States Table of Frequency Allocations, 47 CFR §2.106, prior to being used.
5. The current 24x7 contact information for the NGSO Starlink satellite mission at satellite-operators-pager@spacex.com, which links to the pagers of appropriate technical personnel 24/7 must respond immediately to interference complaints
6. The licensee shall take all necessary measures to ensure that the transmissions do not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. 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. The FCC's 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 alert

signs and protective equipment for workers.

7. Grant of this STA is without prejudice to any determination that the Commission may make regarding SpaceX Services pending applications.

8. Any action taken, or expense incurred as a result of operations pursuant to this STA is solely at SpaceX Services' risk.

9. SpaceX's payload-frequency operations must be limited to testing and must not include provision of commercial services.

10. Operations authorized in this grant of STA must comport with any conditions contained in the SpaceX Second Modification Order.