

Applicant: SpaceX Services, Inc. ("SpaceX Services")  
Call Sign: E202201  
File No.: SES-STA-20201222-01442  
Special Temporary Authority ("STA")

SpaceX Services, Inc. ("SpaceX Services"), is granted Special Temporary Authority ("STA") for 60 days starting February 02/08/2021 to use a SpaceX 1.47m antenna to operate its gateway earth station located in Hamshire, TX to communicate with the Starlink non-geostationary orbit ("NGSO") satellite system (**S2983/3018**) to test its gateway earth station, to confirm their operational status and to evaluate the overall performance using frequency bands 28.6-29.1 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) bands under the following conditions:

1. Operations will not exceed the operational power levels and parameters 60.5 (dBW) Max EIRP per Carrier(dBW) and 9.7 dBW/4 KHz Max EIRP Density/Carrier.
2. Operations shall be on an unprotected basis and shall not claim protection from interference caused to it by any other lawfully operating station.
3. Any harmful interference caused as a result of STA operation, SpaceX Services shall cease operations immediately upon notification of such an event, and shall inform the Commission immediately, in writing, of the event.
4. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at SpaceX Services own risks.
5. The 24/7 contact number for the Starlink testing are as follows; [satellite-operators-pager@spacex.com](mailto:satellite-operators-pager@spacex.com), which links to the pagers of appropriate technical personnel or to [Network Operating Center- Phone : \(360\) 780-3103](#).
6. The licensee shall take all necessary measures to ensure that the antenna does 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. Compliance can be accomplished in most cases by appropriate restrictions such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
7. The 17.8 - 20.2 GHz band is shared with U.S. Government space stations and associated earth stations in the Fixed-Satellite Service. Operation of this earth station will be subject to any technical constraints resulting from this coordination.
8. Grant of this authorization is without prejudice to any determination that the Commission may make regarding SpaceX Services' pending application FCC IBFS File Number SES-LIC-20201208-01396 or future filings.
9. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. §0.261, and is effective immediately.