

Applicant: Spire Global, Inc. ("Spire")
File No.: SES-STA-20210721-01261
Special Temporary Authority (STA)
Call Sign: E160032
Special Temporary Authority

Spire Global, Inc. ("Spire") hereby requests special temporary authority ("STA") for sixty (60) days, starting 08/09/2021 to use its earth station in Freeport, PA to communicate with LEMUR NGSO (S2946), MINAS NGSO (S3045) for digital and TT&C data downloads using frequency bands 402-403 MHz (Earth-to-space), and 402-403 MHz, 2020-2025 MHz (space-to-Earth) under the following conditions:

1. Operations will not exceed operational power parameters: Max EIRP 29.95 (dBW), Max EIRP Density 24.21 (dBW/4kHz).
2. Operations, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and Spire shall cease transmission(s) immediately upon notice of such interference.
3. In the event of any harmful interference, Spire shall cease operations immediately upon notification of such interference, and shall immediately inform the Commission, in writing, of such an event.
4. Transmissions from the Freeport, PA earth station using a frequency of 402.7 MHz shall cease when the NASA International Space Station (NORAD designation 25544, International Spacecraft ID 1998-067A) is within view of the earth station.
5. Transmissions from the LEMUR or MINAS spacecraft using a frequency of 402.7 MHz shall be disabled when the NASA International Space Station (NORAD designation 25544, International Spacecraft ID 1998-067A) is within view of the receiving earth station.
6. Transmissions from the LEMUR or MINAS spacecraft using a frequency of 2022.5 MHz shall be disabled when the spacecraft is within 150 km of the NASA International Space Station (NORAD designation 25544, International Spacecraft ID 1998-067A).

7. Operations in the 402-403 MHz frequency band shall be limited to a single center frequency of 402.79 MHz with a single emission bandwidth of 15 kilohertz as previously granted under SAT-MOD-20200603-00065.
8. The 24/7 Stop Buzzer number and point of contact for this Spire digital data and TT&C Down/Uplinks are as follows –.281-610-9932. Ask for Ricky Nally.
9. Grant of this STA is without prejudice to any determination that the Commission may make regarding SES-MOD-20210118-00061 or future Spire applications.
10. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Spire's risk.

This grant is issued pursuant to Section 0.26 1 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release.