

To: Michael Miller
E-Mail: mlmiller@sterk.space
From: Nimesh Sangani
Date: March 19, 2021

Subject: Additional Information Request

Message:

Please address the following questions/concerns:

- 1) Please provide the size (meter), antenna gain (dBi), maximum total input power at antenna flange (Watts), and EIRP (dBW) associated with emission 22M0F1D for the NSL TC25A antenna.
- 2) The non-geostationary orbit ("NGSO") Makersat-1 satellite was authorized to operate in the 1615-1617.5 MHz band (see File numbers 0743-EX-CN-2017 and 0048-EX-CM-2019). If applicant plans to continue to provide telecommands to experimental Makersat-1 satellite, please provide a revised AP4 to include the 2456-2478 MHz band.
- 3) The NGSO BSS1 satellite was authorized to operate at the 1615.65 MHz and 1616.88 MHz bands (see File numbers 0500-EX-ST-2020 and 1519-EX-ST-2020). If applicant plans to continue to provide telecommands to experimental BSS1 satellite, please provide a revised AP4 to include the 2456-2478 MHz band.
- 4) The NGSO BeaverCube satellite was authorized to operate in the 450.11-450.25 MHz, 401.47-401.53 MHz and 1615-1617.5 MHz bands (see File number 2280-EX-ST-2019). The condition 9 of this license (2280-EX-ST-2019) limited the transmissions from the Cambridge, MA earth station to the BeaverCube satellite to the 450.11-450.250 MHz frequency band; therefore, please remove BeaverCube from List of satellites supported under the existing license.
- 5) The NGSO GEARRS-3/ Globalstar satellite was authorized to operate at the 1615.65 MHz and 1616.88 MHz bands (see File number 0312-EX-CN-2019). If applicant plans to continue to provide telecommands to experimental GEARRS-3/ Globalstar satellite, please provide a revised AP4 to include the 2456-2478 MHz band.
- 6) The NGSO TagSat-1 satellite was authorized to operate at the 1616.25 MHz band (see File number 0657-EX-CN-2020). If applicant plans to continue to provide telecommands to experimental TagSat-1 satellite, please provide a revised AP4 to include the 2456-2478 MHz band.
- 7) The NGSO BroncoSat-1 satellite was authorized to operate at the 1615.65 MHz and 1616.88 MHz bands (see File number 0746-EX-CN-2020). If applicant plans to continue to provide telecommands to experimental BroncoSat-1 satellite, please provide a revised AP4 to include the 2456-2478 MHz band.
- 8) The NGSO ThinSat-2 satellite was authorized to operate at the 1616.25 MHz band (see File number 1478-EX-ST-2020). If applicant plans to continue to provide telecommands to experimental ThinSat-2 satellite, please provide a revised AP4 to include the 2456-2478 MHz band.
- 9) The NGSO Sherpa-FX1 satellite was authorized to operate at the 1616.25 MHz (space-to-space), and in the 1227.60-1575.42 MHz (space-to-space) and 2456-2478 MHz (Earth-to-space) bands (see File number SAT-STA-20200728-00089). The STA authorization (SAT-STA-20200728-00089) was expired; therefore, please remove Sherpa-FX1 from List of satellites supported under the existing license. Alternately, please file a new experimental space station for Sherpa-FX1 satellite and provide a file number of Sherpa-FX1 satellite. Please include the telecommand operation and the 2456-2478 MHz band in Spacecap or API submitted in its new experimental space station application.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of March 19, 2021 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

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