

**Application for Special Temporary Authority
Satellite Carrier Monitor System Operation Earth Stations**

Ligado Networks Subsidiary LLC (“Ligado”), pursuant to Section 25.120 of the Commission’s rules, hereby requests special temporary authority (“STA”) for 60 days, commencing on March 1, 2026 and ending on May 29, 2026, to run test measurements (transmission and reception) from one earth station to determine whether it will proceed with the movement of a Satellite Carrier Monitor System (“SCMS”) Operation earth station from the current location to a new location in the State of Virginia. Ligado operates 9 SCMS earth stations in CONUS and one in Hawaii.¹

Ligado’s SCMS earth stations are part of Ligado’s MSS system and transmit test carriers to and monitor the carriers being received from the satellite. Ligado’s SCMS earth stations link to Ligado’s SkyTerra-1 satellite located at 101.3° W.L., and transmit and receive signals within the various beams distributed across the entire United States (CONUS and OCONUS). As such, SCMS sites must also be geographically distributed across the United States.

The test measurements under this STA would be conducted from an earth station located at H5 Data Center 470 Springpark Place, Herndon, VA, 20170 (the “New Earth Station”). This earth station is intended to replace the already authorized earth station, installed at 10802 Parkridge Boulevard, Reston, VA, 2019 (the “Existing Earth Station”). This STA will help evaluate the possible relocation of its SCMS earth station from existing Reston location to New Herndon location for operational flexibility and reliability.

The New Earth Station would be technically identical to the Existing Earth Station. As the distance between the two locations is only 4 km, the frequency band, signal bandwidth, modulation, power and EIRP will remain the same, the ground level AMSL and the antenna elevation Above the Ground Level (AGL) are approximately the same therefore there will be no change in the antenna azimuth and elevation, and nothing is expected to be changed from the coexistence with other spectrum adjacent services point of view.

In short, as the New Earth Station would not have any impact on interference or protection, Ligado respectfully requests that the Commission grant the instant application on an expedited basis.

Grant of the requested STA will allow Ligado’s to evaluate whether the two supplementary sites are appropriate for the scope of improving the quality of SkyTerra-1 coverage monitoring. If the test measurements validate the sites, Ligado will file a modification of its existing SCMS Earth Station license, Call Sign E100051, to add the New Earth Station and plans to do so before the expiration of this STA.

The New Earth Station will operate in the Ligado’s authorized frequency bands and the technical parameters will be similar to the parameters already authorized for the existing 9 SCMS Earth Stations. The characteristics of the New and Existing Earth Stations are described in the

¹ See ICFS File Nos. SES-MOD-20241104-02324 (Call Station E100051).

attachment.

Ligado will operate pursuant to the STA on a non-protected, non-harmful interference basis. In the unlikely event of harmful interference caused by Ligado's operations under the STA, Ligado will take steps to eliminate such interference, including termination of transmissions if needed. The U.S. point of contact available 24 hours a day, seven days a week, with authority and ability to cease emissions is:

10802 Parkridge Boulevard
Reston, VA 20191
Tel: 703-390-2755

Attachment

New SCMS Site

Address:

H5 Data Center, 470 Springpark Place,
Herndon, Fairfax, VA 20170
Latitude: **38° 57' 44.4" N**
Longitude: **77° 22' 38.2" W**
Site elevation: 109.3 meters
Point of Communication: 101.3W
Antenna Height above ground level: 7.3 meters
Antenna Elevation: 38.5°
Antenna Azimuth: 215.2°

Antenna parameters:

Manufacturer: Westinghouse
Model Number: AU-10 FS
Diameter: 0.76 meters
Frequency band: 1525 – 1660.5 MHz
Antenna gain: Typical 20 dBi
 @1525.0 MHz: 19.5 dBi
 @1660.5 MHz: 20.2 dBi
3dB Beamwidth Vertical and Horizontal: 15°

Signal characteristics:

Maximum aggregated output EIRP for all carriers: 16.5 dBW

Maximum total input power at antenna flange: 0.43 W

Particulars of Operations

	Frequency [MHz]	Polarization	Emission	Tx/Rx	Max EIRP dBW	Service
1)	1626.5-1660.5	R	N0N	Tx	16.5	Unmodulated signal
2)	1626.5-1660.5	R	5K00G9W	Tx	16.5	4800 BPS QPSK data carrier
3)	1525.0-1559.0	R	5K00G9W	Rx	-	4800 BPS QPSK data carrier

Existing SCMS Site

Address:

Ligado Headquarters, 10802 Parkridge Boulevard,
Reston, Fairfax, VA 2019
Latitude: 38° 56 ' 42 " N
Longitude: 77° 19 ' 09 W
Site elevation: 100 meters
Point of Communication: 101.3W
Antenna Height above ground level: 7.5 meters
Antenna Elevation: 38.5°
Antenna Azimuth: 215.2°

Antenna parameters:

Manufacturer: Westinghouse
Model Number: AU-10 FS
Diameter: 0.76 meters
Frequency band: 1525 – 1660.5 MHz
Antenna gain: Typical 20 dBi
 @1525.0 MHz: 19.5 dBi
 @1660.5 MHz: 20.2 dBi
3dB Beamwidth Vertical and Horizontal: 15°

Signal characteristics:

Maximum aggregated output EIRP for all carriers: 16.5 dBW
Maximum total input power at antenna flange: 0.43 W
Particulars of Operations

	Frequency [MHz]	Polarization	Emission	Tx/Rx	Max EIRP dBW	Service
1)	1626.5-1660.5	R	N0N	Tx	16.5	Unmodulated signal
2)	1626.5-1660.5	R	5K00G9W	Tx	16.5	4800 BPS QPSK data carrier
3)	1525.0-1559.0	R	5K00G9W	Rx	-	4800 BPS QPSK data carrier