

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

SES Americom, Inc. (“SES”) respectfully requests special temporary authority (“STA”) for a period of 30 days beginning October 16, 2017, to permit SES to test a newly constructed C-band antenna located at SES’s South Mountain teleport in Somis, CA. Specifically, SES requests authority to conduct brief transmissions in the conventional C-band frequencies with the AMC-7 satellite (call sign S2155) at 135° W.L. to confirm that the antenna performs in compliance with SES’s specifications and Commission rules.

A full description of the antenna and the proposed operations is provided in Attachment 1. SES is preparing a license application for the new antenna, but is awaiting completion of the coordination report for the C-band frequencies. SES currently operates multiple C-band antennas at the South Mountain teleport,¹ and the testing operations proposed will be no more interfering to, and no more susceptible to interference from, terrestrial networks than the current C-band operations from the South Mountain site. Accordingly, SES seeks STA to test the new antenna in the conventional C-band frequencies pending completion of the coordination report.

Grant of this request to test the new antenna is in the public interest. Such testing is necessary to ensure that the antenna is operating within SES specifications and the limits of the Commission’s rules. Ensuring proper operations is necessary to avoid harmful interference in the future.

The transmissions associated with the proposed antenna tests will not cause harmful interference to the operations of any other spacecraft or terrestrial operators. The antenna will communicate with the U.S. licensed AMC-7 spacecraft in the conventional C-band. In addition, and in any event, SES will conduct all test operations on a non-harmful interference basis, and will cease transmissions promptly in the event any harmful interference is caused by such operations.

For the foregoing reasons, SES respectfully requests special temporary authority to communicate with AMC-7 in order to test its new antenna.

¹ See, e.g., Call Sign E940156, File No. SES-RWL-20040308-00329.

Attachment 1

Site Details

Contact Information:

Dave Coyle

Address:

5990 Solano Verde Dr
Somis, Ventura, CA 93006

Geographic Coordinates:

Latitude: 34.325 deg N

Longitude: 118.996W

Site Elevation:

314 meters

Antenna Details

Antenna ID: SM-C1
Manufacture/Model: Alpha-Satcom/ ASL 7.3 LMC
Antenna Size: 7.3 meters
Antenna Gain Transmit: 51.8dBi at 6.125 GHz

Antenna Gain Receive: 48.1 dBi at 3.95 GHz
Height Above Ground Level: 7.9 meters
Height Above Sea Level: 321.9 meters
Total Input Power at the Flange: 1000 watts
Total EIRP for the test Carriers: 81.8 dBW

Operational Details

Frequency (GHz)	Transmit /Receive	Polarization	Emission Designator	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBw/4kHz)
3.7-4.2	R	Horizontal and Vertical	N0N	0.0	0.0
5.925-6.425	T	Horizontal and Vertical	N0N	52.3	52.3