

**Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554**

In the Matter of)
)
SES Americom, Inc.) SES-STA-_____ - _____
)
Request for Special Temporary Authority to Test)
New Antenna in the Conventional Ku-band and)
Ku BSS band)

Expedited Action Requested

APPLICATION FOR SPECIAL TEMPORARY AUTHORITY

SES Americom, Inc. (“SES”) respectfully requests Special Temporary Authority (“STA”) for 30 days to test a new nine meter antenna, located at SES’s facility in Woodbine, Maryland (WB K-12) in the conventional Ku-band with the AMC-15 satellite at 105° W.L. (Call Sign S2180) and in the Ku BSS band with the EchoStar 6 satellite at 96.2° W.L. (Call Sign S2232). SES is preparing and will shortly file an application seeking a license for this antenna, which will be used to provide commercial service and telemetry, tracking and control operations for the SES-15 satellite to be operated by SES Satellites (Gibraltar) Ltd. (“SES-GIB”) at 129.15° W.L.¹ SES seeks STA to test the new antenna in the conventional and BSS Ku-band frequencies beginning May 10, 2017, and asks for Commission action consistent with that timing.

¹ See SES Satellites (Gibraltar) Limited, Call Sign S2951, File Nos. SAT-PPL-20160126-00007, SAT-MPL-20160718-00063, granted Dec. 14, 2016 (“SES-15 Grant”).

Specifically, SES requests authority to test the WB K-12 antenna on the following frequencies with AMC-15: 11.7-12.2 GHz (downlink) and 14.0-14.5 GHz (uplink). SES also requests authority to test the antenna on the following frequencies with EchoStar 6: 12.2-12.7 GHz (downlink) and 17.3-17.7 GHz² (uplink). Testing will consist of an unmodulated CW carrier operating for a few hours several times during the requested 30-day STA term. All operations will be conducted within the technical parameters set forth in Attachment 1 and on an unprotected, non-interference basis.

Grant of the requested STA on an expedited basis is in the public interest because it will allow SES Americom to ensure its earth station is capable of providing a high level of service in support of the SES-15 operations in advance of the satellite's launch, which is scheduled for next month.

² SES has coordinated operations in the 12.2-12.7 GHz/17.3-17.7 GHz BSS bands for other antennas located at the Woodbine teleport site. *See* SES Americom, Inc., Call Sign E140054, File No. SES-LIC-20140605-00427, granted Sept. 17, 2014. The test operations described in this request will be conducted on an unprotected, non-interference basis.

For the foregoing reasons, SES Americom respectfully requests that the Commission grant it a 30-day STA on an expedited basis to test its WB K-12 antenna with AMC-15 in the conventional Ku-band and with EchoStar 6 in the Ku BSS band.

Respectfully submitted,

SES Americom, Inc.

By: /s/ Petra A. Vorwig

Of Counsel

Karis A. Hastings
SatCom Law LLC
1317 F Street, N.W., Suite 400
Washington, D.C. 20004
Tel: (202) 599-0975

Petra A. Vorwig
Senior Legal & Regulatory Counsel
SES Americom, Inc.
1129 20th Street N.W., Suite 1000
Washington, D.C. 20036

Dated: April 25, 2017

Attachment 1

Site Details

Contact Information:

Mark Rathert
410-970-7501

Address:

2323 Grimville Rd.
Mt. Airy, MD 21771

Geographic Coordinates:

Latitude: 39° 22' 36.8"N

Longitude: 77° 4' 47.46"W

Site Elevation:

199.6 meters

Antenna Details

Antenna ID: K-12
Manufacture/Model: General Dynamics/9.0m Cassegrain
Antenna Size: 9.0 meters
Antenna Gain Transmit: 60.1 dBi at 14.125 GHz
61.96 dBi at 17.5 GHz
Antenna Gain Receive: 58.5 dBi at 11.725 GHz
Height Above Ground Level: 9.7 meters
Height Above Sea Level: 209.3 meters
Total Input Power at the Flange: 1250 watts
Total EIRP for the test Carrier: 91.07 dBW

Operational Details

Frequency (GHz)	Transmit/Receive	Polarization	Emissions Designator	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBW/4kHz)
11.7-12.2	R	Horizontal and Vertical	1M00G9D	0.0	0.0
11.7-12.2	R	Horizontal and Vertical	100KG7W	0.0	0.0
11.7-12.2	R	Horizontal and Vertical	N0N	0.0	0.0
12.2-12.7	R	Horizontal and Vertical	1M00F9D	0.0	0.0
12.2-12.7	R	Horizontal and Vertical	100KG7W	0.0	0.0
12.2-12.7	R	Horizontal and Vertical	N0N	0.0	0.0
14.0-14.5	T	Horizontal and Vertical	1M00F9D	76.08	52.1

14.0-14.5	T	Horizontal and Vertical	100KG7W	60.08	46.1
14.0-14.5	T	Horizontal and Vertical	N0N	52.1	52.1
17.3-17.8	T	Horizontal and Vertical	1M00F9D	76.08	52.1
17.3-17.8	T	Horizontal and Vertical	100KG7W	60.08	46.1
17.3-17.8	T	Horizontal and Vertical	N0N	52.1	52.1