

**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)

Expedited Action Requested

REQUEST 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-13) in the conventional Ku-band with the AMC-15 satellite at 105° W.L. (Call Sign S2180). SES is preparing an application seeking a license for this antenna, which will be used to support operations of the SES-14 satellite to be operated by SES DTH do Brasil Ltda (“SES DTH Brasil”) at 47.5° W.L.¹ SES seeks STA to test the new antenna in the conventional Ku-band frequencies beginning September 12, 2017, and asks for Commission action consistent with that timing.

Specifically, SES requests authority to test the WB K-13 antenna on the following frequencies with AMC-15: 11.7-12.2 GHz (downlink) and 14.0-14.5 GHz (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.

¹ See SES DTH do Brasil Ltda, Call Sign S2974, File No. SAT-PPL-20160918-00093, granted Feb. 9, 2017.

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-14 operations in advance of the satellite's launch, which is scheduled for early in 2018.

For the foregoing reasons, SES Americom respectfully requests that the Commission grant it on an expedited basis a 30-day STA to test its WB K-13 antenna with AMC-15 in the conventional Ku-band.

Respectfully submitted,

SES Americom, Inc.

By: /s/ Petra A. Vorwig

Of Counsel

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Dated: September 1, 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' 36.5"N

Longitude: 77° 4' 49.4"W

Site Elevation:

190 meters

Antenna Details

Antenna ID: K-13
Manufacture/Model: General Dynamics/9.0m Cassegrain
Antenna Size: 9.0 meters
Antenna Gain Transmit: 60.1 dBi at 14.125 GHz
Antenna Gain Receive: 58.5 dBi at 11.725 GHz
Height Above Ground Level: 9.7 meters
Height Above Sea Level: 199.7 meters
Total Input Power at the Flange: 750 watts
Total EIRP for the test Carriers: 88.85 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
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