

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

In the Matter of)
)
SES Americom, Inc.) SES-STA-_____ - _____
) Call sign E160139
Request for Special Temporary Authority to)
Operate with AMC-8 at 139° W.L.)
)

APPLICATION FOR SPECIAL TEMPORARY AUTHORITY

SES Americom, Inc. (“SES Americom”) respectfully requests Special Temporary Authority (“STA”) for 30 days to test its new 11 meter Vertex antenna (SMWAAS) at its South Mountain teleport located in Somis, California, in the conventional C-band with AMC-8, operating at 139° W.L. As described in the pending license application, the SMWAAS antenna will be used to communicate with the Wide Area Augmentation System (“WAAS”) payload on the SES-15 satellite to be operated by SES Satellites (Gibraltar) Ltd. (“SES-GIB”) at 129.15° W.L.¹ SES Americom seeks STA to test the new antenna in C-band frequencies beginning December 1, 2016, and asks for Commission action consistent with that timing.

Specifically, SES Americom requests authority to test the SMWASS antenna on the following frequencies with AMC-8: 3700-4200 MHz (downlink) and 6247-6283 MHz (uplink).² Testing will consist of an unmodulated CW carrier for a few hours once during the 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 SES Americom, Inc., Call Sign E160139, File No. SES-LIC-20160725-00674, filed July 25, 2016.

² C-band operations with AMC-8, including in the 6247-6283 MHz band, have been coordinated at the Somis, California teleport and include the parameters requested in this application. *See* File No. SES-RWL-20081105-01451, granted Nov. 6, 2008 (call sign KB27).

Grant of the requested STA will allow SES Americom to ensure its earth station is capable of providing a high level of service in support of the WAAS operations, which will ultimately improve aircraft navigation and safety.

For the foregoing reasons, SES Americom respectfully requests that the Commission grant it a 30-day STA to test its SMWAAS earth station with AMC-8 in the conventional C-band.

Respectfully submitted,
SES Americom, Inc.

By: /s/ Petra A. Vorwig

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Dated: November 7, 2016

Attachment 1

Call Sign: E160139

Site Details

Contact Information:

David Coyle
805-386-2712

Address:

5990 Solano Verde Dr.
Somis, California
93066

Geographic Coordinates:

Latitude: 34 °19 '32.0 "N

Longitude: 118 °59 '44.0 "W

Site Elevation:

312.0 meters

Antenna Details

Antenna ID: SMWAAS
Manufacture/Model: Vertex 11m
Antenna Size: 11.0 meters
Antenna Gain Transmit: 55.7 dBi at 6 GHz
Antenna Gain Receive: 52.0 dBi at 4 GHz
Height Above Ground Level: 15.0 meters
Height Above Sea Level: 327.0 meters
Total Input Power at the Flange: 500.0 watts
Total EIRP for the test Carrier: 46.38 dBW

Operational Details

Frequency (MHz)	Transmit/Receive	Polarization	Emissions Designator	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBw/4kHz)
3700-4200	R	Horizontal and Vertical	N0N	0.0	0.0
6247-6283	T	Horizontal and Vertical	N0N	46.38	46.38