


APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for 60-day STA to Operate Ku-band Antenna (E170090) Pending Application Review

1. Applicant

Name: SES Americom, Inc. Phone Number: 202-478-7143
DBA Name: Fax Number: 202-478-7111
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Suite 1000
City: Washington State: DC
Country: USA Zipcode: 20036
Attention: Ms Petra A Vorwig

File # SES-STA-20170412-00397
Call Sign E170090 Grant Date 5-12-17
(or other identifier)
Term Dates 5-12-17 To: 7-11-17
Approved: *Mark E. Olsen*





File # SES-STA-20170412-00397
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Term Dates
From: 5-12-17 To: 7-11-17
Approved: Paul E. Blaes

Applicant: SES Americom, Inc.
Call Sign: E170090
File No.: SES-STA-20170412-00397
Special Temporary Authority (STA)

SES Americom, Inc. ("SES Americom") is granted STA, for 60 days, beginning May 12, 2017, to operate a 9-meter Ku-band antenna at its new fixed earth station in Somis, California located at 34° 19' 31.2" N.L, 118° 59' 43.6" W.L to provide telemetry, tracking, and control (TT&C) functions for the SES-10 satellite (Call Sign S2950) at orbital location 66.9 degrees W.L. using frequencies 14005.0 MHz (V) and 14499.0 MHz (H and V) (Earth-to-space) and frequencies 11702.5 MHz (H) and 12197.5 MHz (V) (space-to-Earth). Operations will be under the following conditions:

1. EIRP density of TT&C transmissions are limited to the limits requested in IBFS File No. SES-LIC-20170407-00375.
2. Operations, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
3. In the event of any harmful interference under this grant of STA, SES Americom, E170090 must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
4. Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
5. The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
6. Grant of this authorization is without prejudice to any determination that the Commission may make regarding SES Americom's pending application IBFS File No. SES-LIC-20170407-00375.
7. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at SES Americom's risk.

This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. §0.261, and is effective immediately.

2. Contact	
Name: Karis Hastings	Phone Number: 202-599-0975
Company: SatCom Law LLC	Fax Number:
Street: 1317 F St, NW Suite 400	E-Mail: karis@satcomlaw.com
City: Washington	State: DC
Country: USA	Zipcode: 20004 -
Attention:	Relationship: Legal Counsel
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)	
3. Reference File Number SESLIC2017040700375 or Submission ID	
4a. Is a fee submitted with this application?	
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).	
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee	
<input type="radio"/> Other (please explain):	
4b. Fee Classification CGX - Fixed Satellite Transmit/Receive Earth Station	
5. Type Request	
<input checked="" type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input type="radio"/> Other	
6. Requested Use Prior Date 05/11/2017	
7. CitySomis	
8. Latitude (dd mm ss.s h) 34 19 31.2 N	

9. State CA	10. Longitude (dd mm ss.s h) 118 59 43.6 W
11. Please supply any need attachments. Attachment 1: Attachment 2: Attachment 3:	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) SES Americom, Inc. requests special temporary authority to begin operating the Ku-band earth station located in its South Mountain, CA teleport (E170090) described in file number SES-LIC-20170407-00375 for 60 days beginning May 11, 2017 to provide TT&C and communications service for SES-10, which will be located at 66.9 W.L. The temporary	
13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application"; party to the application; for these purposes. Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Petra A. Vorwig	15. Title of Person Signing Senior Legal & Regulatory Counsel
WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

12. Description

SES Americom, Inc. requests special temporary authority to begin operating the Ku-band earth station located in its South Mountain, CA teleport (E170090) described in file number SES-LIC-20170407-00375 for 60 days beginning May 11, 2017 to provide TT&C and communications service for SES-10, which will be located at 66.9 W.L. The temporary authority is requested while the underlying application remains pending.

Waiver Request

By this application, SES Americom, Inc. (“SES Americom” or “SES”) seeks a license to operate a new earth station antenna in Somis, California to communicate with the SES-10 satellite and other U.S.- and foreign-licensed satellites included on the Commission’s Permitted Space Station List. SES Americom’s affiliate, New Skies Satellites B.V. (“NSS”), has been authorized to use the SES-10 satellite to provide service into the United States, and has asked SES Americom to provide earth station service to support market access in the United States.¹ The earth station will operate in the below bands and as further described in Schedule B to the attached Form 312.

Transmit	13.75-14.0 GHz ²
Transmit	14.0-14.5 GHz
Transmit	17.3-17.55 GHz
Receive	10.95-11.2 GHz
Receive	11.45-11.7 GHz
Receive	11.7-12.2 GHz

SES requests limited waivers of the Commission’s requirements in connection with the instant application. Grant of these waivers is consistent with Commission policy:

The Commission may waive a rule for good cause shown. Waiver is appropriate if special circumstances warrant a deviation from the general rule and such deviation would better serve the public interest than would strict adherence

¹ See *New Skies Satellites B.V. Market Access Application*, File No. SAT-PPL-20160117-00005 (“SES-10 Petition”), granted on June 23, 2016 (“SES-10 Grant”). The authorization was subsequently modified to operate the satellite at 66.9° W.L. pursuant to the Commission’s expedited process set out in Section 25.117(h)(1). *New Skies Satellites B.V. Modification*, Call Sign S2950, File No. SAT-MPL-20170108-00002, granted May 24, 2017.

² As demonstrated in Attachment 1, operations in the 13.75-14.0 GHz band will not cause harmful interference to U.S. Navy radar stations or NASA TDRSS stations.

to the general rule. Generally, the Commission may grant a waiver of its rules in a particular case if the relief requested would not undermine the policy objective of the rule in question and would otherwise serve the public interest.³

Section 2.106 and Footnote US271. The SES-10 Grant included a waiver of Section 2.106 and footnote US271 permitting NSS to provide service into the United States at 67° W.L. using the 17.3-17.55 GHz band, which is allocated for the fixed-satellite service but limited to use by broadcasting-satellite service (“BSS”) feeder links.⁴ At 66.9° W.L., the SES-10 spacecraft will be located 2.3° from the nearest BSS Feeder link Plan assignment and 5.4° from the nearest operational BSS Feeder links at the nominal 61.5° W.L. location. As described in the SES-10 Petition, BSS feeder links are similar to other FSS operations using large earth station antennas that can share on a roughly two degree spacing basis. Furthermore, operations in the 17.3-17.55 GHz band will be on an unprotected, non-interference basis. Thus, granting a waiver will not undermine Commission policy because BSS operations will be fully protected.

Section 2.106 Footnote NG52. SES Americom also seeks a waiver of footnote NG52 to permit the reception of U.S. domestic services in the 10.95-11.2 GHz and 11.45-11.7 GHz bands on an unprotected, non-interference basis. The Commission has granted a waiver for SES-10 to provide domestic service in these bands.⁵ Footnote NG52 was intended to preserve access to the 10.7-11.7 GHz spectrum for terrestrial fixed service (“FS”) stations by

³ *PanAmSat Licensee Corp.*, 17 FCC Rcd 10483, 10492 (Sat. Div. 2002) (footnotes omitted).

⁴ *See* SES-10 Grant, Attachment to Grant at 2, ¶ 5.

⁵ *Id.* at 1-2, ¶ 3.

limiting FSS use of the band to international operations only.⁶ SES-10 will meet the power flux density limits on the ground to protect FS operations,⁷ and the number of antennas that will be used to communicate in these bands will be limited, thereby ensuring protection of FS services. Moreover, because SES seeks authority to receive in this spectrum on an unprotected basis, FS use of the band will not be constrained. Therefore, grant of the requested waiver will not undermine the purpose of the rule.

For the foregoing reasons, SES Americom requests that the above waiver requests be granted.

⁶ See 47 C.F.R § 2.106, Footnote NG52. This policy was previously codified in footnote NG104.

⁷ See SES-10 Grant, Attachment to Grant at 1-2, ¶ 3.