

KA288 SES-STA-20170222-00192 IB2017000462  
SES Americom, Inc.

Approved by OMB  
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Request for STA to Provide TT&C for SES-10 during In-Orbit Testing at 68.5 W.L. and drift to 66.9 W.L. Using KA288

1. Applicant

**Name:** SES Americom, Inc. **Phone Number:** 202-478-7143  
**DBA Name:** **Fax Number:** 202-478-7111  
**Street:** 1129 20th Street NW **E-Mail:** petra.vorwig@ses.com  
Suite 1000  
**City:** Washington **State:** DC  
**Country:** USA **Zipcode:** 20036  
**Attention:** Ms Petra A Vorwig



File # SES-1A-20170222-00192  
KA288 Grant Date 4-12-17  
Call Sign (or other identifier)  
Term Dates  
From: 4-13-17 To: 5-13-17  
Approved: [Signature]

Applicant: SES Americom, Inc.  
Call Sign: KA288  
File No.: SES-STA-20170222-00192

SES Americom, Inc. ("SES Americom" or "SES") is granted special temporary authority, for 30 days, beginning April 13, 2017 to operate its Somis, CA fixed earth station teleport to provide TT&C for SES-10 at its in-orbit testing location at 68.5° W.L. and during drift to the 66.9 ° W.L. orbital location in the 14000 – 14500 MHz (Earth-to-space) and 11700 – 12200 MHz (space-to-Earth) frequency bands under the following conditions:

1. All operators of satellites will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs, Currently the 24x7 contact information for the SES-10 mission is as follows: 24/7 point of contact for the proposed SES-10 operations is the SES Payload Management Operations Center (PMOC) in Woodbine, MD, 1 800 772 2363 or 1 410 970 7570; e-mail: PMOC@ses.com.
2. Operations, shall not cause harmful interference to or claim protection from other lawfully operating stations 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 must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
4. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future SES Americom applications.
5. Any action taken or expense incurred as a result of operations pursuant to this STA is solely 'at SES Americom's risk.
6. Should an emergency situation exists and the applicant must notify FCC OperationCenter@fcc.gov of the situation with a copy to paul.blais@fcc.gov.

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.



File # SES-STA-20170222-00192  
KA288  
Call Sign KA288 Grant Date 4-11-17  
(or other identifier)  
Term Dates  
From: 4-13-17 To: 5-13-17  
Approved: Paul E. Blais

Spectrum Manager, Cathy Sham (Catherine.c.sham@nasa.gov). Requests for coordination shall be provided to Cathy Sham (catherine.c.sham@nasa.gov) and NASA JSC Deputy Spectrum Manager, Alan Chu (alan.h.chu@nasa.gov), at least 14 business days prior to planned transmission and should include, as a minimum, current ALTAIR trajectory and planned uplink event start and end times.

8. Universal Space Network Inc. should be aware that the band 2200-2290 MHz is allocated for federal satellite and fixed line-sight operations.

9. Non-federal use is on a case-by-case basis. Universal Space Network, Inc. should have no expectations of automatic approval in this band in future submissions.

10. In the event of any harmful interference under this grant of STA, Universal Space Network Inc. must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.

11. Grant of this authorization is without prejudice to any determination that the commission may make regarding pending or future Universal Space Network Inc.'s applications.

12. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Universal Space Network'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. should have no expectations of automatic approval in this band in future submissions.

<b>2. Contact</b>	
<b>Name:</b> Karis Hastings	<b>Phone Number:</b> 202-599-0975
<b>Company:</b> 1317 F St, NW Suite 400	<b>Fax Number:</b>
<b>Street:</b> Washington	<b>E-Mail:</b> karis@satcomlaw.com
<b>City:</b> USA	<b>State:</b> DC
<b>Country:</b>	<b>Zipcode:</b> 20004 -
<b>Attention:</b>	<b>Relationship:</b> 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 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 type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other	
6. Requested Use Prior Date	
7. City/Somis	8. Latitude (dd mm ss.s h) 34 19 31.0 N

9. State CA	10. Longitude (dd mm ss.s h) 118 59 44.4 W
11. Please supply any need attachments. Attachment 1: STA Narrative 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 STA for 30 days to provide TT&C for the SES-10 satellite during in-orbit testing at 68.5 W.L. and as it drifts to 66.9 W.L. using an antenna in its South Mountain, CA teleport (KA288). See attached narrative.	
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.**

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

In the Matter of Application by )  
 )  
SES AMERICOM, INC. ) SES-STA-\_\_\_\_\_-\_\_\_\_\_  
 ) Call Sign KA288  
For Special Temporary Authority to )  
Provide TT&C for SES-10 during IOT )  
at 68.5° W.L. and During Drift to 66.9° W.L. )

**REQUEST FOR SPECIAL TEMPORARY AUTHORITY**

By this application, SES Americom, Inc. (“SES Americom” or “SES”) respectfully requests earth station special temporary authority (“STA”) for a period of 30 days, beginning 11 days following launch of SES-10, to use its KA288 antenna in Somis, California to communicate with the SES-10 satellite in order to provide Tracking, Telemetry and Command (“TT&C”) services for the SES-10 satellite during in-orbit testing at 68.5° W.L. and during the satellite’s drift to its final orbital location of 66.9° W.L. The satellite is currently scheduled to launch mid-March 2017, and SES seeks action on the STA consistent with that schedule. Grant of the requested authority will serve the public interest by facilitating the safe operation of SES-10 during testing and in transit to its orbital location to commence regular operations.

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 using SES-10.<sup>1</sup> SES-10 will be located at 68.5° W.L. +/- 0.1 degrees during in-orbit testing. The relaxed

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<sup>1</sup> 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 grant was based on SES-10 operating at 67.0° W.L., but NSS has filed a modification seeking 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*, File No. SAT-MPL-20170108-00002, (Call Sign S2950), filed Jan. 8, 2017.

described herein. Grant of the requested authority will promote safe operation of the satellite during and after testing.

Respectfully submitted,

SES AMERICOM, INC.

By: */s/ Petra 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 NW, Suite 1000  
Washington, DC 20036  
Tel: (202) 478-7143

Dated: February 22, 2017



## ATTACHMENT 1

**Call Sign:** KA288

### Site Details

**Contact Information:**

Dave Coyle  
805-386-2712

**Address:**

5990 Solano Verde Dr.  
Somis, California  
93066

**Geographic Coordinates:**

Latitude: 34° 19' 31.0" N

Longitude: 118° 59' 44.4" W

**Site Elevation:**

311.0 meters

**Antenna Details**

Antenna ID:	TK1
Manufacture/Model:	Vertex/6.1 KPK
Antenna Size:	6.1m
Antenna Gain Transmit:	57.1 dBi at 14.0 GHz
Antenna Gain Receive:	58.5 dBi at 11.725 GHz
Height Above Ground Level:	7.0 meters
Height Above Sea Level:	318.0 meters
Total Input Power at the Flange:	650 watts
Total EIRP for all Carriers:	85.2 dBW

**TT&C Operational Details**

Frequency (MHz)	Transmit/Receive	Polarization	Emissions Designator	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBw/4kHz)
14000-14500	T	Horizontal and Vertical	1M00F9D	73.0	49.1
11700-12200	R	Horizontal and Vertical	500KF9D		