

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
STA-New Earth Station-#E190099

I. Applicant

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



File # SES-STA-20190322-00399
Call Sign E190099 Grant Date 4-8-19
(or other identifier)
Term Dates
From: 4-12-19 To: 6-12-19
Approved: [Signature]

2. Contact			
Name:	George Varkey	Phone Number:	6099872347
Company:	SES	Fax Number:	
Street:	4 Research Way	E-Mail:	george.varkey@ses.com
City:	Princeton	State:	NJ
Country:	USA	Zipcode:	08540 -
Attention:		Relationship:	Engineer
(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 SESLIC2019022800193 or Submission ID			
4a. Is a fee submitted with this application?			
☒ If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114). ☐ Governmental Entity ☐ Noncommercial educational licensee ☐ Other (please explain):			
4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station			
5. Type Request			
☒ Use Prior to Grant ☐ Change Station Location ☐ Other			
6. Requested Use Prior Date 04/13/2019			
7. City/Haleiwa		8. Latitude (dd mm ss.s h) 21 40 14.88 N	

9. State HI	10. Longitude (dd mm ss.s h) 158 1 55.72 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 request Special Temporary Authority (STA) for 60 days period starting from 13th April, 2019 to allow operations of the earth station with call sign #E190099 in order to carry out the antenna performance tests and to provide communication services on NSS-11 satellite which is located at 176deg E orbital position. The earth station would use 14-	
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"; for these purposes. Yes ☒ No ☐	
14. Name of Person Signing Petra 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 request Special Temporary Authority (STA) for 60 days period starting from 13th April, 2019 to allow operations of the earth station with call sign #E190099 in order to carry out the antenna performance tests and to provide communication services on NSS-11 satellite which is located at 176deg E orbital position. The earth station would use 14-14.5 GHz for the uplink service and the frequencies of NSS-11 (call sign#S3037) as granted by FCC for the receive services (12.25 to 12.75 GHz) with no interference, no protection basis.

Applicant: SES Americom, Inc-
File No.: SES-STA-20190322-00399
Call Sign: E190099
Special Temporary Authority



File # SES STA 20190322-00399
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Approved: Paul E. Blab

SES Americom, Inc. ("SES") is granted a special temporary authority for 60 days, beginning April 13th, 2019, to utilize a 8.1m Ku-band antenna located in Haleiwa, HI to communicate with NSS-11 (S3037) satellite located at the 176°E.L orbital location and to test antenna performance in the frequency bands 14-14.5 GHz (Earth-to-space) and 12.25 - 12.75 GHz (space-to-Earth) under the following conditions:

1. Operations will not exceed the operational power levels and parameters requested and coordinated.
2. In the event of any harmful interference under this grant of special temporary authority, SES must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
3. 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 SES satellite is Ph.: (808) -638-0073. Ask for Kevin Baker.
4. Transmitters(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 measure 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. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at SES's risk.
6. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future SES applications.

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.

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

By this application, SES Americom, Inc. ("SES") respectfully requests special temporary authority ("STA") for a period of 60 days starting from 13th April, 2019 to operate the earth station with call sign #E190099, on non-interference and unprotected basis as the application for permanent license for the station is in pending. The carriers in Ku band frequency (14,000-14,500 MHz) will be operated within the EIRP limit as specified in the license application. The antenna will communicate with NSS-11 which has license granted on 02/26/19 by FCC to operate at 176E longitude with reference to the File# SAT-PPL-20180815-00062 and call sign # S3037.

NSS-11 downlink (space to earth) operates in the frequency range 12,250 MHz to 12,750MHz. SES seeks a waiver to permit the earth station to receive the signal in this frequency band on an unprotected, non-interference basis.

The technical details of the proposed operations are provided below. The earth station will be operated in compliance with the Commission's radiation hazard limits and the antenna performance will comply with the gain patterns as specified in section 25.209 (a2) and (b).

Site Details

Contact Information:

Kevin Baker
1808-638-0073

Address:

58-350 Kamehameha Highway, Comsat Rd,
Haleiwa, Honolulu, HI

Geographic Coordinates:

Latitude: 21 40' 14.88"N

Longitude: 158deg 1' 55.72"W

Site Elevation:

140.0 meters

Antenna Details

Antenna ID: Temp 8.1K
Manufacture/Model: Vertex Comm/8.1m Cassegrain
Antenna Size: 8.1 meters
Antenna Gain Transmit: 59.8 dBi at 14.25 GHz
Antenna Gain Receive: 58.5 dBi at 11.95 GHz
Height Above Ground Level: 9.0 meters
Height Above Sea Level: 149 meters
Total Input Power at the Flange: 350 watts
Total EIRP for all Carriers: 85.24 dBW

Operational Details

Frequency (MHz)	Transmit/Receive	Polarization	Emissions Designator	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBW/4kHz)
12250-12750	R	Horizontal and Vertical	36M0G7W	0.0	0.0
12250-12750	R	Horizontal and Vertical	64K0G7W	0.0	0.0
14000-14500	T	Horizontal and Vertical	36M0G7W	85.24	45.69
14000-14500	T	Horizontal and Vertical	64K0G7W	57.84	45.8