

E190489
SES Americom, Inc.

SES-STA-20191211-01688

IB2019004215

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:
STA- Call Sign # E190489

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-20191211-01688
Call Sign E190489 Grant Date 1-15-20
(or other identifier)
Term Dates
From: 1-15-20 To: 2-14-20
Approved: Paul E. Blair

2. Contact			
Name:	George Varkey	Phone Number:	6099874327
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 SESLIC2019061100756 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			
01/15/2020			
7. City/Koolulua		8. Latitude	
		(dd mm ss.s h) 21 40 16.4 N	

9. State HI	10. Longitude (dd mm ss.s h) 158 1 52.8 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 request Special Temporary Authorization (STA) for 60 days starting from 15th Jan, 2020 for the earth stations under call sign # E190484 in order to conduct the performance tests of the earth stations and offer services subsequently while the application for the grant of license is in pending.	
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 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.

Applicant: SES Americom, Inc.
Call Sign: E190489
File No.: SES-STA-20191211-01688
Special Temporary Authority ("STA")



File # SES-STA-20191211-01688
Call Sign E190489 Grant Date 1-15-20
(or other identifier)
Term Dates
From: 1-15-20 To: 2-14-20
Approved: Paul E. Hays

SES Americom, Inc. ("SES Americom") is granted STA for 60 days, commencing January 15, 2020, to operate on center frequencies of: 14000-14500 MHz (H,V) (Earth-to-space) and 10950-11200 MHz (H,V), 11450-11700 MHz, 12250-12750 MHz (H,V) (space-to-Earth) from fixed satellite earth station located at geographic coordinates 21°40'16.4"N, 158° 01' 52.8"W in Koolulua, HI to conduct antenna verification tests with the Gibraltar licensed NSS-11 satellite at orbital location 176°E and the Netherlands licensed NSS-6 satellite at orbital location 169.5W°. Operations will be under the following conditions:

1. Testing operations from antenna ID SSB-K5 shall communicate with NSS-11 (Call Sign S3037) satellite with 14000-14500 MHz (H,V) (Earth-to-space) and 12250-12750 MHz (H,V) (space-to-Earth) frequency bands in compliance with the grant by FCC IBFS file number SAT-PPL-20180815-00062.
2. Testing operations from antenna ID SSB-K6 shall communicate with NSS-6 (Call Sign S3048) satellite with 14000-14500 MHz (Earth-to-space) and 10950-11200 MHz (H,V), 11450-11700 MHz (H,V), 12500-12750 MHz (H,V) (space-to-Earth) frequency bands in compliance with the grant by FCC IBFS File Number SAT-PDR-20190403-00022.
3. Testing operations shall not exceed parameters as specified in the STA request.
4. All operations shall be on an unprotected and non-harmful interference basis, E190489, 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 and must inform the Commission, in writing, immediately of such an event.
5. SES Americom shall, at all times, take all necessary measures to ensure that STA operation of this earth station 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. Physical 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. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. 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 STA is without prejudice to any determination that the Commission may make regarding SES Americom's pending application IBFS file number SES-LIC-20190611-00756/SES-AFS-20200103-00002 or future applications.

7. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at SES Americom, Inc'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 the grant of this special temporary authority was authorized pursuant to Section 1.62 of the Commission's rules, 47 C.F.R. § 1.62 is effective upon release.

REQUEST FOR SPECIAL TEMPORARY AUTHORITY (STA)

Service Narrative

By this application, SES Americom, Inc. ("SES") respectfully requests special temporary authority ("STA") for a period of 60 days starting from 15th Jan 2020 to operate the earth station with call sign #E190489, 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 earth station with Antenna Id SSB-K5 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. The earth station with Antenna Id SSB-K6 will communicate with NSS-6 which has license granted on 09/12/2019 by FCC to operate at 169.5 W longitude with reference to the File # SAT-PDR-20190403-00022 and call sign # S3048. In order to perform antenna verification tests of the earth stations, it may communicate with the satellites in the permitted list which are located within the satellite arc as specified in the license application.

NSS-11 & NSS-6 downlinks (space to earth) operate 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 service carriers out of the earth stations are given below. The earth station will be operated in compliance with the Commission's radiation hazard limits and the antenna performance will comply with the off-axis gain patterns as specified in section 25.209 (a2) and (b).

Site Details

Contact Information:

Kevin Baker
1808-469-7104

Address:

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

Geographic Coordinates:

Latitude: 21deg 40' 16.4" N

Longitude: 158deg 1' 52.8" W

Site Elevation:

143.0 meters

Antenna Specifications

Antenna ID: SSB-K5 & SSB-K6
Manufacture/Model: GD Satcom/9mKXX
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: 152.7 meters
Total Input Power at the Flange: 750 watts
Total EIRP for all Carriers: 88.9 dBW

Services Parameters: Earth Station with Antenna ID: SSB-K5

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
12250-12750	R	Horizontal and Vertical	N0N	0.0	0.0
10950-11200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
10950-11200	R	Horizontal and Vertical	64K0G7W	0.0	0.0
10950-11200	R	Horizontal and Vertical	N0N	0.0	0.0
11200-11700	R	Horizontal and Vertical	36M0G7W	0.0	0.0
11200-11700	R	Horizontal and Vertical	64K0G7W	0.0	0.0
11200-11700	R	Horizontal and Vertical	N0N	0.0	0.0
11700-12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
11700-12200	R	Horizontal and Vertical	64K0G7W	0.0	0.0
11700-12200	R	Horizontal and Vertical	N0N	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
14000-14500	T	Horizontal and Vertical	N0N	52.1	52.1

Service Parameters: Earth Station with Antenna ID: SSB-K6

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
12250-12750	R	Horizontal and Vertical	N0N	0.0	0.0
10950-11200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
10950-11200	R	Horizontal and Vertical	64K0G7W	0.0	0.0
10950-11200	R	Horizontal and Vertical	N0N	0.0	0.0
11200-11700	R	Horizontal and Vertical	36M0G7W	0.0	0.0
11200-11700	R	Horizontal and Vertical	64K0G7W	0.0	0.0
11200-11700	R	Horizontal and Vertical	N0N	0.0	0.0
11700-12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
11700-12200	R	Horizontal and Vertical	64K0G7W	0.0	0.0
11700-12200	R	Horizontal and Vertical	N0N	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
14000-14500	T	Horizontal and Vertical	N0N	52.1	52.1
14000-14500	T	Horizontal and Vertical	1M00F9D	76	52.1