

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Extension-STA-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-20200203-00102
E190489
Call Sign _____ Grant Date 2-19-20
(or other identifier)
Term Dates
From: 2-19-20 To: 4-19-20
Approved: Paul E. [Signature]



2. Contact	
Name: George Varkey	Phone Number: 609-987-4327
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?	
<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	
02/15/2020	
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.) <div style="border: 1px solid black; padding: 5px;">SES Americom, Inc request Special Temporary Authority (STA) for 60 days period to allow services using the earth stations with call sign # E190489 as the application for the earths station license is in pending. The earth stations shall access satellite capacity as per the details provided in the license application.</div>		
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 <input checked="" type="radio"/> No <input type="radio"/>		
14. Name of Person Signing	15. Title of Person Signing	
Petra A. Vorwig	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).		

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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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-20020203-00102
Special Temporary Authority ("STA")



File # SES-STA-20020203-00102
E190489
Call Sign E190489 Grant Date 2-19-20
(or other identifier)
Term Dates
From: 2-19-20 To: 4-19-20
Approved: [Signature]

SES Americom, Inc. ("SES Americom") is granted extension of STA for 60 days 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 [ww.fcc.gov/oet/rfsafety](http://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.
8. Operations of this station during the period from expiration of February 14, 2020, IBFS file number SES-STA-20191211-01688, to the grant of this STA was authorized pursuant to Section 1.62 of the Commission's rules, 47 C.F.R. § 1.62.

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

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 Feb 2020 to provide services using the earth stations 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 shall communicate with the satellites in the permitted list as specified in the license application.

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
14000-14500	T	Horizontal and Vertical	800KF9W	58	81.0

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