

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