

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 June, 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 |