

Applicant: SES Americom, Inc.
Call Sign: E170198
File No.: SES-STA-20181018-03213
Special Temporary Authority (STA)



File # SES-STA-20181018-03213
Call Sign E170198 Grant Date 2-1-19
(or other identifier)
Term Dates
From 2-1-19 To: 7-31-19
Approved: *[Signature]*

SES Americom, Inc. is granted STA, for 180 days, to conduct service performance testing of SES-14 (S2974) satellite at orbital location 47.5° W from its fixed licensed earth station (Call sign E170198) in Port St. Lucie, FL located at 27° 16' 56" N, 080° 28' 58" W using frequency band 13750-14000 MHz (Earth-to-space) under the following conditions:

1. Operations shall be with antenna ID PSL-K1, GD Satcom/9.0m Casegrain(9mKXX) model, 9-meter antenna, transmit antenna gain of 60.1 dBi at 14.125 GHz center frequency; within the coordinated frequency ranges: 13750-14000 MHz (H,V); requested emission designators: 8M17G7W, 20M0G7W, 72M0G7W, and 118MG7W; requested maximum eirp per carrier and maximum eirp density per carrier levels which shall comply with the eirp limitations established in the Code of Federal Regulations 47 C.F.R. § 2.106, International Footnotes US356 (eirp level shall be between or equal to 68 dBW and 85 dBW for 13750-13772 MHz and 13778-14000 MHz frequency bands) and US357 (eirp density level not exceed 71 dBW/6MHz for 13772-13778 MHz frequencies).
2. Operations shall comply with the input power density per carrier of -14.00 dBW/4KHz for routinely licensed digitally modulated carriers on frequency 14000 MHz with respect to the Code of Federal Regulations 47 C.F.R. § 25.212(c)(2).
3. Operations 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.
4. In the event of any harmful interference under this grant of STA, SES Americom, Inc., E170198 must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
5. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future SES Americom, Inc. applications.
6. 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 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 180 days to operate the station with call sign #E170198, in the Ext. Ku-band frequency on a non-interference basis as the license application operate the antenna in the frequency has been in pending since 9/20/2017. The carriers in the frequency band will be operated within the EIRP limit as specified in the interference study that was submitted with the license application. The antenna will communicate with SES-14 (call sign S2974), Brazil-licensed satellite that is on the Commission's Permitted Space Station List. The technical details of the proposed operations are provided below, and the antenna will be operated in compliance with the Commission's radiation hazard limits. Grant of the requested authority will avoid numerous filings of STAs to allow SES to continue the services offered with the antenna.

Site Details

Contact Information:

Renato Dias
305-514-0001

Address:

10161 Range Line Rd
Port St. Lucie FL 34987

Geographic Coordinates:

Latitude: 27.282 N

Longitude: 80.482 W

Site Elevation:

5 meters

Antenna Details

Antenna ID:

PSL-K1

Manufacture/Model:

General Dynamics/9.0m Casagrain

Antenna Size:

9 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:

14.7 meters

Total Input Power at the Flange:

750 watts

Total EIRP for all Carriers:

88.85 dBW

Operational Details

Frequency (MHz)	Transmit/ Receive	Polarization	Emissions Designator	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBW/4kHz)
13780-14000	T	Horizontal and Vertical	72M0G7W	77.5	34.9
13778-14000	T	Horizontal and Vertical	118MG7W	79.6	34.9
13770-13780	T	Horizontal and Vertical	8M17G7W	68.0	34.9
13750-14000	T	Horizontal and Vertical	8M17G7W	68.0	34.9
13750-13770	T	Horizontal and Vertical	20M0G7w	71.90	34.9