

E980076 SES-STA-20130510-00380
SES Americom, Inc.

IB2013001007

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:
30-day STA request to use antenna 9.3M on E980076 to communicate with NSS-806 at 40.5W in the extended C-bands

1. Applicant

Name: SES Americom, Inc. **Phone Number:** 202-478-7137
DBA Name: **Fax Number:** 202-478-7101
Street: 1129 20th Street NW **E-Mail:** daniel.mah@ses.com
Suite 1000
City: Washington **State:** DC
Country: USA **Zipcode:** 20036
Attention: Daniel C.H. Mah



File # SES-STA-20120510-00380
E980076 Grant Date 5-17-13
Call Sign (or other identifier)
Term Dates
From 5-17-13 To 5-16-13
Approved: Paul E. Blair

Applicant: SES Americom, Inc.
Call Sign: E980076
File No.: SES-STA-20130510-00380
Special Temporary Authority (STA)

SES Americom, Inc. (SES Americom) is granted STA to operate its fixed earth station Call Sign E980076 for 30 days to provide international services to its customers on a continuing basis using the 9.3 meter antenna to communicate with NSS-806 satellite at 40.5° W.L. in place of the licensed 9.0 meter antenna under Call Sign E000152 is under maintenance work. The STA is granted under the following conditions:

- 1) SES Americom will transmit in the 5850-5925 MHz, 6491-6650 MHz frequencies with the maximum eirp and eirp density not to exceed the coordinated power levels of 73.8 dBW eirp and 43.0 dBW/4kHz eirp density for any carrier in these bands. All uplinks from the 9.3 meter antenna in these bands will be received from outside of the United States.
- 2) SES Americom will receive in the 3625-3700 MHz frequencies. All downlinks received on the 9.3 meter antenna in this band will be uplinked from outside of the United States.
- 3) SES Americom will perform TT&C operation with NSS-806 in the C-band frequencies: 6173.7 MHz, 6176.3 MHz, 3947.5 MHz, 3948 MHz, 3952.5 MHz, 3952 MHz, 3950 MHz; and that the power levels will not exceed the maximum coordinated power level under its earth station licensed E980076.
- 4) SES Americom shall not cause harmful interference to, and shall not claim protection from interference caused to it by any other lawfully operating radio communication system.
- 5) In the event of any harmful interference as a result of operations under this grant of special temporary authority, SES Americom shall cease operations immediately upon notification of such interference and shall immediately inform the Commission, in writing, of such an event.
- 6) Any action taken or expense incurred as a result of operations pursuant to this STA is solely at SES Americom's risk.

This grant was authorized under Section 1.62 of the Commission's rules, 47 C.F.R. § 1.62.



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Call Sign E980076 Grant Date 5-17-13
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Term Dates
From 5-17-13 To: 6-16-13
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2. Contact	
Name: SES Americom, Inc.	Phone Number: 202-478-7137
Company: 1129 20th Street NW Suite 1000	Fax Number: 202-478-7101
Street: Washington	E-Mail: daniel.mah@ses.com
City: USA	State: DC
Country: Daniel C.H. Mah	Zipcode: 20036
Attention:	Relationship: Legal Counsel
(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 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 type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other	
6. Requested Use Prior Date	
7. City/Bristow	8. Latitude (dd mm ss.s h) 38 47 1.0 N

9. State VA	10. Longitude (dd mm ss.s h) 77 34 23.0 W
11. Please supply any need attachments. Attachment 1: 9.3M 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.) 30-day STA request to use antenna 9.3M on E980076 to communicate with NSS-806 at 40.5W in the extended C-bands, while maintenance is performed on regular antenna. See attached narrative.	
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 Daniel C.H. Mah	15. Title of Person Signing 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.

APPLICATION FOR SPECIAL TEMPORARY AUTHORITY

(E980076; antenna 9.3M)

*** Expedited Action Requested ***

SES Americom, Inc. (“SES”) hereby requests a 30-day Special Temporary Authority (“STA”) to operate its 9.3 meter antenna (call sign E980076; antenna 9.3M) at its Bristow, Virginia, teleport to communicate with the NSS-806 satellite at 40.5° W.L. (319.5° E.L.) using the 5850-5925 MHz uplink and 3625-5925 MHz downlink frequencies, and the 6491-6650 MHz uplink frequencies. SES is also requesting authority to use this antenna for TT&C in the conventional C-band frequencies.

Purpose. The purpose of this STA is to enable SES to continue providing international service to customers using the 9.3M antenna while maintenance work is performed on another 9.0 meter antenna at the same teleport that is regularly licensed to communicate with NSS-806 at 40.5° W.L. in these frequencies (call sign E000152; antenna 9M). The maintenance work on the 9.0 meter antenna is expected to take 2 to 3 months to complete. SES respectfully requests expedited grant of this STA by no later than **May 17, 2013**, so that the maintenance work can commence as soon as possible.

Uplink Operations. The proposed temporary uplink operations will not increase the potential for harmful interference. Transmissions from the 9.3M antenna in the 5850-5925 MHz and 6491-6650 MHz frequencies will not exceed the maximum coordinated EIRP and EIRP density for these frequencies on Antenna 1 on the same earth station license (call sign E980076). Specifically, the EIRP will not exceed 73.8 dBW and the EIRP density will not exceed 43.0 dBW/4 kHz for any carrier in these bands. All uplinks from the 9.3M antenna in these bands will be received outside of the United States.¹

Downlink Operations. The proposed temporary downlink operations in 3625-3700 MHz will not require any additional protection from harmful interference. Two antennas at SES’s Bristow teleport are authorized to receive in these frequencies on a “grandfathered” basis: the 9M antenna on E000152 and the NSS-EC-1 antenna on E000696. All downlinks received on the 9.3M antenna in this band will be uplinked from outside the United States.²

TT&C. SES is also requesting authority to use the 9.3M antenna to perform TT&C with the NSS-806 in the conventional C-band frequencies, specifically:³

Telecommand 1	6173.7 MHz
Telecommand 2	6176.3 MHz
Telemetry 1 & 1A	3947.5, 3948 MHz
Telemetry 2 & 2A	3952.5, 3952 MHz
Tracking Beacon	3950 MHz

¹ See 47 C.F.R. § 2.106 footnote US245; § 2.108 (restricting 5850-5925 MHz to international service only).

² See 47 C.F.R. § 2.106 footnote US245; § 2.108 (restricting 3600-3700 MHz to international service only).

³ The FCC has previously granted a waiver of 47 C.F.R. 25.202(g) for NSS-806’s center-of-band TT&C frequencies. See *New Skies Satellites N.V.*, 16 FCC Rcd 6740, at ¶ 22 (2001).

SES is requesting authority to operate with a maximum EIRP of 77 dBW and EIRP density of 53.5 dBW/4 kHz for its telecommand uplinks. This is less than the maximum coordinated EIRP allowed under earth station license E980076, and is less than the maximum coordinated EIRP density for another antenna at the same teleport (call sign E000696) located a mere 125 feet away.⁴

Grant of the requested STA will serve the public interest by ensuring continuity of service to customers. The SES point of contact for all operations proposed under the requested STA is Gary Cruickshank, +1 (703) 367 7311, gary.cruickshank@ses.com.

⁴ To the extent necessary, SES requests a waiver of the requirement in 47 C.F.R. § 25.203 for a fresh coordination report for the higher EIRP density of the TT&C transmissions of this antenna. There is no additional risk of harmful interference due to the close proximity of another antenna in the same frequency band that is coordinated and authorized to transmit at this higher EIRP density to the 40.5° W.L. orbital position.