

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
E070181 STA for NSS-703

1. Applicant

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

30 days
"with conditions"




File # SES-STA-20140829-00682
Call Sign E070181 Date 09/17/2014
(or other identifier) Term Dates
From 10/07/2014 To: 11/06/2014
Approved: Paul E. Flansburg

Applicant: SES Americom, Inc.
Call Sign: E070181
File No.: SES-STA-20140829-00682

SES Americom, Inc. ("SES") is granted special temporary authority (STA), for 30 days, to commence no later than October 7, 2014, to use the following earth stations to perform Tracking, Telemetry and Command ("TT&C") to retire the NSS-703 satellite currently at 47.05° W.L.

- 1) *Operations under this STA 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.*
- 2) *Any action taken or expense incurred as a result of operations pursuant to this STA is solely at SES Americom's risk.*
- 3) *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.*

30 days *"With Conditions"*

 GRANTED International Bureau	File # <u>SES-STA-20140829-00682</u>
	Call Sign <u>E070181</u> Grant Date <u>09/17/2014</u> (or other identifier)
	Term Dates From <u>10/07/2014</u> To: <u>11/06/2014</u>
	Approved: <u>Paul E. Blau</u>

2. Contact

Name: SES Americom, Inc. **Phone Number:** 202-478-7137
Company: **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: **Relationship:**

(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?

If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).

Governmental Entity Noncommercial educational licensee

Other (please explain):

4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

Use Prior to Grant

Change Station Location

Other

6. Requested Use Prior Date
10/07/2014

7. City/Mount Airy

8. Latitude
(dd mm ss.s h) 39 22 35.9 N

9. State MD	10. Longitude (dd mm ss.s h) 77 4 48.3 W
11. Please supply any need attachments. Attachment 1: E070181 STA NSS703 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; min-height: 100px;">See attached narrative.</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 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.

APPLICATIONS FOR SPECIAL TEMPORARY AUTHORITY

(Call Signs E070181, WB81 and KB27)

SES Americom, Inc. (“SES”) respectfully requests Special Temporary Authority (“STA”) – to commence no later than October 7, 2014 – to use the following earth stations to perform Tracking, Telemetry and Command (“TT&C”) to retire the NSS-703 satellite currently at 47.05° W.L.:

SES Designation	FCC Call Sign	Antenna Model	Coordination Arc	Use During De-orbit	Max EIRP dBW	Max EIRP Density dBW/4kHz
Woodbine C8	E070181 WBES-IS1R	7.3m Vertex	15W-140W	47.05W-65.5W	76.3	49.1
Vernon TC1	WB81 Ant#2	13m Vertex	5W-143W	47.05W-143W	88.9	57.7
South Mtn TC1	KB27 Ant#1	13m Vertex	53W-188W	53W-188W	89.9	66.8

During the maneuvers to retire NSS-703, these earth stations will communicate with the satellite on the following TT&C frequencies:

Command 1	6173.7 MHz
Command 2	6176.3 MHz
Telemetry 1	3947.5 or 3948 MHz
Telemetry 2	3952.5 or 3952 MHz

The earth stations will be operated in accordance with their licensed and coordinated technical parameters, with the following exception. Specifically, the Woodbine C8 antenna (Call Sign E070181), may need to be operated at up to 50 dBW/4 kHz EIRP density in order to command the satellite in an emergency situation during the initial portion of the de-orbit drift from 47.05° W.L. to approximately 65.5° W.L. Specifically, such higher power would be needed only if the Vernon TC1 antenna (Call Sign WB81 Ant#2) were not available due to some unforeseen outage. SES respectfully requests an STA to operate the Woodbine C8 antenna (Call Sign E070181) in excess of its licensed and coordinated power limits on a non-harmful interference basis in the event of such an emergency.

In any event, all earth station operations during the retirement of NSS-703 will be performed on a non-harmful interference, non-protected basis. In addition, SES will coordinate the de-orbit drift with all potentially affected satellite operators in accordance with industry practice. SES will cease operations upon receipt of notification of harmful interference. The SES point of contact for interference matters during the NSS-703 retirement maneuvers is the SES Satellite Control Center, +352 710 725 212, soc@ses.com (attention: Duty Satellite Controller).

Grant of the requested STAs will serve the public interest, as it will enable the NSS-703 satellite to be deorbited in accordance with the satellite’s authorized post-mission disposal plan. *See SES Satellites (Gibraltar) Limited*, Stamp Grant, File Nos. SAT-PPL-20101103-00230, 20110120-00015, Call Sign S2818 (granted Oct. 13, 2011).

SES respectfully requests STAs for an initial period of 30 days to begin on October 7, 2014. However, the retirement of the satellite may take longer than 30 days to ensure full venting of the fuel and oxidizer on the spacecraft. Accordingly, SES will be requesting an extension of these STAs for another 30 days.¹

¹ SES will separately file an application for Special Temporary Authority to use its Sunset Beach C2 antenna (call sign E090060) to support the de-orbiting of NSS-703 once the terrestrial frequency coordination process for that antenna has been updated.