

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for STA to Test the NWM-17 Antenna on E000696 Using NSS-7 and NWM-16 Antenna

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 | | |



File # SES-STA-20130710-00577
 Call Sign E000696 Grant Date 7-12-13
 (or other identifier)
 From 7-15-13 Term Dates 7-14-13
 To: 7-14-13
 Approved: [Signature]

Applicant: SES Americom, Inc.
Call Sign: E000696
File No.: SES-STA-20130710-00577
Special Temporary Authority (STA)

SES Americom, Inc. (SES) is granted STA to conduct antenna testing of the NWM-17 antenna at Bristow, Virginia site. The test will be conducted in conjunction with the NWM-16 antenna to communicate with the NSS-7 (Call Sign S2463) satellite at 20 degrees W.L orbital location. The STA is granted under the following conditions:

- 1) SES will conduct testing on the following paired center frequencies: transmit in the 5929 MHz (RHCP) and receive in the 3704 MHz (LHCP); transmit in the 5850.5 MHz (LHCP) and receive in the 3625.5 MHz (RHCP).
- 2) SES shall not cause harmful interference to, and shall not claim protection from interference caused to it by any other lawfully operating radio communication system.
- 3) SES point of contact during the proposed antenna test will be Gary Cruickshank, phone 703-330-3305, gary.cruickshank@ses.com
- 4) In the event of any harmful interference as a result of operations under this grant of special temporary authority, SES shall cease operations immediately upon notification of such interference and shall immediately inform the Commission, in writing, of such an event.
- 5) Any action taken or expense incurred as a result of operations pursuant to this STA is solely at SES's risk.
- 6) Grant of this STA is without prejudice to any determination that the Commission may make regarding pending application SES-MFS-20130604-00470.
- 7) This grant was authorized under Section 1.62 of the Commission's rules, 47 C.F.R. § 1.62.



File # SES-STA-20130710-00577
Call Sign E000696 Grant Date 7-12-13
(or other identifier)
From 7-15-13 Term Dates 8-14-13
To: 8-14-13
Approved: Paul E. [Signature]

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 2. Contact | |
| Name: Daniel C.H. Mah | Phone Number: 202-478-7137 |
| Company: SES Americom, Inc. | 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 | 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 SESMFS2013060400470 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 checked="" type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee | |
| <input checked="" type="radio"/> Other (please explain): | |
| 4b. Fee Classification CGX - Fixed Satellite Transmit/Receive Earth Station | |
| 5. Type Request | |
| <input checked="" type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input type="radio"/> Other | |
| 6. Requested Use Prior Date 07/15/2013 | |
| 7. City Bristow | |
| 8. Latitude (dd mm ss.s h) 38 47 2.4 N | |

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 9. State VA | 10. Longitude (dd mm ss.s h) 77 34 21.9 W |
| 11. Please supply any need attachments. Attachment 1: STA 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.) Request for STA to perform transmit tests on the proposed NWM-17 antenna on E000696 following a fault repair. The test will be performed in conjunction with NSS-7 and the proposed NWM-16 antenna. See attached narrative for full description. | |
| 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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**** Expedited Action Request ****

APPLICATION FOR SPECIAL TEMPORARY AUTHORITY

Call Sign E000696, Antennas NWM-16 and NWM-17

SES Americom, Inc. ("SES") respectfully requests Special Temporary Authority ("STA") from July 15 to July 22, 2013, to conduct antenna testing of the proposed NWM-17 antenna (*see* File No. SES-MFS-20130604-00470; call sign E000696 (the "*NWM-16 and NWM-17 Application*")) at its Bristow, Virginia, teleport. The test will be conducted in conjunction with the NWM-16 antenna and the Netherlands-licensed NSS-7 satellite at the 20° W.L. orbital location (*see* File No. SAT-MPL-20120215-00017; call sign S2463) on the following frequencies:

5929 MHz (right-hand circular) uplink / 3704 MHz (left-hand circular) downlink
5850.5 MHz (left-hand circular) uplink / 3625.5 MHz (right-hand circular) downlink.

SES is seeking: (1) authority to transmit an uplink carrier in those frequencies from the NWM-17; and (2) authority to receive the corresponding satellite downlink from NSS-7 on the NWM-16 antenna. *See NWM-16 and NWM-17 Application*. The purpose of the proposed test is to enable the antenna feed and transmit-pattern of the NWM-17 antenna to be verified. The proposed tests themselves will likely take no more than four hours to complete. However, SES is requesting a one-week window in which to perform the testing to take into account weather or other contingencies.

The proposed testing will be conducted on a non-protected, non-interference basis. SES has carefully chosen test frequencies that are in between or outside the transponder and TT&C frequencies of adjacent satellites. In addition, the test will be conducted consistent with the terrestrial coordination submitted with the *NWM-16 and NWM-17 Application*. In any event, SES will cease transmissions upon notice of any harmful interference to any lawfully operating system. The SES point of contact during the proposed testing with this antenna will be Gary Cruickshank, 703-330-3305, gary.cruickshank@ses.com.

Grant of the requested STA will serve the public interest by enabling SES to verify the performance of NWM-17 antenna prior to final acceptance of delivery from the antenna vendor. The Commission has previously granted an STA to use NWM-17 to conduct in-orbit testing ("IOT") with SES-6 at 26° W.L. *See* File No. SES-STA-20130604-00471 (granted Jun. 12, 2013). Unfortunately, a fault in the antenna was discovered during IOT. Grant of the instant STA request will enable SES to verify that the fault has been repaired.