

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 for Bristow O3b Beam 5 Demo 1.8m beginning Dec 2014

1. Applicant

Name: SES Government Solutions, Inc. **Phone Number:** 703-610-0906
DBA Name: **Fax Number:** 703-610-1030
Street: 2010 Corporate Ridge, Suite 550 **E-Mail:** joe.oloughlin@ses-gs.com
City: McLean **State:** VA
Country: USA **Zipcode:** 22102
Attention: Mr Joseph A O'Loughlin


with conditions

SES-STA-20141106-00843

Call Sign: none Grant Date: 11-25-14
(or other identifier)

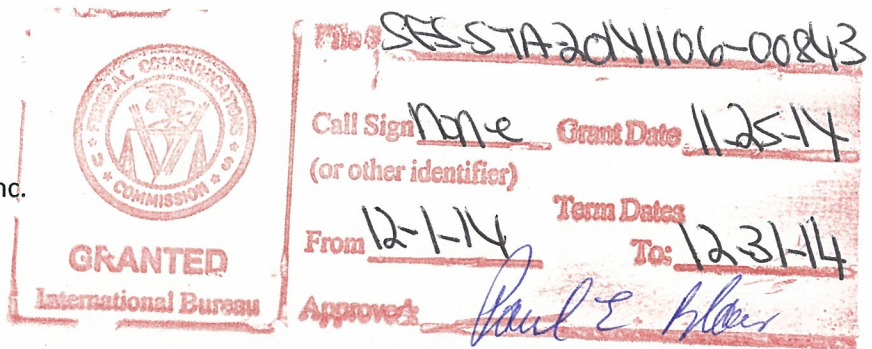
Term Dates: From: 12-1-14 To: 12-31-14

Approved: *Paul E. Blair*



GRANTED
International Bureau

Applicant: SES Government Solutions, Inc.
File Number: SES-STA-20141106-00843
Call Sign: No Call Sign
Special Temporary Authority (STA)



The stamp is a red ink stamp from the FCC International Bureau. It features the FCC logo at the top center. To the right of the logo, the file number 'SES-STA-20141106-00843' is handwritten in black ink. Below the logo, the word 'GRANTED' is printed in large, bold, capital letters. Underneath 'GRANTED', the words 'International Bureau' are printed in a smaller font. To the right of the 'GRANTED' text, there are several fields: 'Call Sign' with 'None' handwritten, '(or other identifier)' printed below it, 'Grant Date' with '11-25-14' handwritten, 'Term Dates' with 'From 12-1-14' and 'To: 12-31-14' handwritten, and 'Approved:' with a signature 'Paul E. Blawie' handwritten over it.

SES Government Solutions, Inc. ("SES-GS") is granted STA for 30 days, beginning on December 1, 2014, to operate a fixed earth station with two 1.8 meter GD/Prodelin model GDST-1.8M antennas located at Bristow, VA (38°47' 0.25" N.L./077°34' 24.5" W.L.) to communicate with O3b's in-orbit NGSO FSS satellite system, licensed by the United Kingdom, in the 19.055-19.271 GHz (space-to-Earth) and the 28.855-29.071 GHz (Earth-to-space) Beam 5 frequencies under the following conditions:

1. SES Government Solutions 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. In the event that there is a report of interference, SES Government Solutions must immediately terminate transmissions and notify the FCC in writing.
3. Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the antennas' power flux-density levels exceed the specified guidelines.
4. Grant of this authorization is without prejudice to any determination that the Commission may make regarding any other pending or future application seeking to communicate with the O3b satellite systems.
5. This authorization does not constitute grant of Market Access for O3B's NGSO FSS system.
6. Operations under this authority are on a non-interference basis only.
7. Operations under this authority are on a non-protected basis only.
8. The total power at the antenna flange for all carriers must not exceed 40 Watts.
9. The power flux-density at the Earth's surface produced by emissions from O3b's NGSO FSS system for all methods of modulation shall not exceed the levels established in 47 C.F.R. § 25.208 (e) and Article 21 of the ITU Radio Regulations.
10. The operations of the O3b NGSO FSS satellite system must not exceed the EPFD limits in Nos. 22.5C, 22.5D, and 22.5F of the ITU Radio Regulations.
11. O3b satellite transmissions must be conducted in accordance with the coordination agreement between O3b and U.S. government systems signed on January 17, 2013 with the Department of Defense.

12. Transmissions authorized herein must comply with coordination agreements reached between the United Kingdom and other Administrations, including all coordination agreements reached between the United Kingdom and the United States.

13. This STA is limited to operations associated with testing, satellite monitoring, and customer demonstrations purpose. SES Government Solutions may not provide any commercial service under this STA.

14. In the event that there is a report of interference, SES Government Solutions must immediately terminate transmissions and notify the FCC in writing.

15. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at SES Government Solutions' own risk.

16. 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.

2. Contact

Name: Karis Hastings **Phone Number:** 202-599-0975
Company: SatCom Law LLC **Fax Number:**
Street: 1317 F Street, N.W. **E-Mail:** karis@satcomlaw.com
Suite 400
City: Washington **State:** DC
Country: USA **Zipcode:** 20004 -
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?

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

7. City Bristow 8. Latitude (dd mm ss.s b) 38 47 0.25 N

9. State VA	10. Longitude (dd mm ss.s h) 77 34 24.5 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.) SES Government Solutions (SES-GS) seeks special temporary authority for 30 days beginning on December 1, 2014, to use an additional frequency segment for operations of its earth station in Bristow, VA, with the O3b U.K.-licensed non-geostationary Ka-band satellite system. The proposed operations are for testing and demonstration purposes only and will	
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 Joseph A. O'Loughlin	15. Title of Person Signing CTO
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.

12. Description

SES Government Solutions (SES-GS) seeks special temporary authority for 30 days beginning on December 1, 2014, to use an additional frequency segment for operations of its earth station in Bristow, VA, with the O3b U.K.-licensed non-geostationary Ka-band satellite system. The proposed operations are for testing and demonstration purposes only and will conform to the terms of the previously granted STA for these frequencies at this location, File No. SES-STA-20140903-00694.

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

SES Government Solutions, Inc. ("SES-GS") respectfully requests special temporary authority ("STA") for a period of 30 days beginning on December 1, 2014, to use an additional frequency segment, 28.855-29.071 GHz uplink and 19.055-19.271 GHz downlink ("the Beam 5 Frequencies"), for communications between its earth station in Bristow, VA and the O3b Ka-band non-geostationary orbit fixed-satellite service ("NGSO FSS") satellite fleet. SES-GS currently holds authority to communicate with O3b from the Bristow earth station site using the frequencies in O3b's beam 3.¹ In addition, SES-GS was issued a 30-day STA in September for the Beam 5 Frequencies at this location.² As with the prior STA grants, SES-GS seeks authority to communicate with O3b's constellation for demonstration purposes only and does not seek to provide commercial services to end users. Grant of the requested authority is in the public interest as it will allow SES-GS to conduct demonstrations of the O3b system's capabilities to potential government customers.

Complete technical information regarding the Bristow earth station was submitted to the Commission in support of the earlier SES-GS STA request for Bristow, File No. SES-STA-20131022-00887, and is incorporated by reference herein. In particular, that application included a Schedule B describing the applicable technical parameters, a complete set of antenna patterns, link budgets, and a radiation hazard analysis. Apart from adding the Beam 5 Frequencies, no changes from the specifications set forth in those materials are proposed here. SES-GS also incorporates by reference the market access showing and waiver requests SES-GS submitted in File No. SES-STA-20131022-00887 and the technical information relating to the O3b constellation that is on file with the FCC.³

¹ See SES Government Solutions, Inc., File Nos. SES-STA-20131022-00888 (grant-stamped Jan. 6, 2014); SES-STA-20131022-00887 (grant-stamped Jan. 31, 2014); & SES-STA-20140612-00517 (grant-stamped July 29, 2014).

² See SES Government Solutions, Inc., File No. SES-STA-20140903-00694 (grant-stamped Sept. 5, 2014).

³ See materials submitted in O3b File Nos. SES-LIC-20130124-00089 (granted June 20, 2013); SES-LIC-20100723-00952 (granted Sept. 25, 2012); SES-AMD-20131025-01138; SES-LIC-20130618-00516; SES-AMD-20140814-00653.

Adding the Beam 5 Frequencies is consistent with Commission precedent and will serve the public interest. As discussed above, the Commission has already reviewed the technical parameters of the SES-GS Bristow earth station in granting prior STAs for this location. Furthermore, the SES-GS Bristow earth station is located in close proximity to antennas operated by O3b that have been authorized to use all the O3b frequency segments, including the Beam 5 Frequencies.⁴ Because NGSO FSS has a primary allocation in the beam 5 spectrum, the proposed operations conform to the Table of Allocations. The requested STA will allow SES-GS to evaluate and demonstrate the O3b network's operational capabilities and will not result in harmful interference to other authorized spectrum users. Thus, grant of the STA will serve the public interest.

⁴ O3b has submitted a request for a permanent license at this site, File No. SES-LIC-20130618-00516. Pending action on this application, the Commission has granted O3b temporary authority for operations at the Bristow location. See File Nos. SES-STA-20130617-00497 (grant-stamped Aug. 27, 2013) & SES-STA-20140514-00357 (grant-stamped June 30, 2014).