

E160137 SES-STA-20160823-00736 IB2016001914
SES Government Solutions, Inc.

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:
60 Day STA Extension for Bristow O3b All Beams Demo August 2016

1. Applicant

Name: SES Government Solutions, Inc. Phone Number: 703-610-0906
DBA Name: Fax Number: 703-610-1030
Street: 11790 Sunrise Valley Drive E-Mail: joe.oloughlin@ses-gs.com
Suite 300
City: Reston State: VA
Country: USA Zipcode: 20191
Attention: Mr Joseph A O'Loughlin



File # SES-STA-20160823-00736
Call Sign E160137 Grant Date 9-6-16
(or other identifier)
Term Dates
From: 9-8-16 To: 11-7-16
Approved: Paul E. Glass

Applicant: SES Government Solutions, Inc.
File No.: SES-STA-20160823-00736
Call Sign: E160137
Special Temporary Authority (STA)



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E160137
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(or other identifier)
Term Dates
From: 9-8-16 To: 11-7-16
Approved: Paul E. Hiebs

SES Government Solutions, Inc. (SES Government Solutions) is granted extension of STA for 60 days to operate a fixed satellite earth station with two 1.8 meter GD/Prodelin model GDST-1.8M antennas located at a facility in Bristow, Virginia (38° 7' 0.25" N.L./077°deg 34' 24.5" W.L.) to communicate with O3b's in-orbit NGSO FSS satellite system, licensed by the United Kingdom, in the : 17.852-18.068GHz, 18.112-18.328GHz, 18.372-18.588GHz, 18.801-19.017 GHz, 19.055-19.271GHz (space-to-Earth), and 27.652-27.868GHz, 27.912-28.128GHz, 28.172-28.388GHz, 28.601-28.817GHz, 28.855-29.071GHz (Earth-to-space) frequency bands under the following conditions:

1. This STA is limited to testing, satellite monitoring, and non-commercial demonstrations purpose. SES Government Solutions may not provide any commercial service under this STA.
2. Coordinated emission carriers will be 1M00G7D and 216MG7D. The total input power at the antenna flange for all carriers must not exceed 40 Watts and total output eirp for all carriers must not exceed 68.8 dBW. The associated maximum eirp per carrier for 1M00G7D is 48.6 dBW and for 216MG7D is 68.8 dBW. The associated maximum eirp density per carrier for 1M00G7D is 24.6 dBW/4kHz and for 216MG7D is 38.8 dBW/4kHz.
3. Operations in the 17.8-18.3 GHz band does not conform to the U.S. Table of Frequency Allocations, 47 C.F.R §2.106, but is being granted only at this location for the limited purposes of demonstrating the O3b system's capabilities to potential government customers and that grant of this STA is without prejudice to any determination that the Commission may make regarding authorizations for government or commercial fixed satellite service in the 17.8-18.3 GHz band within the U.S.
4. 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.
5. 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.

6. 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.
7. This authorization does not constitute grant of Market Access for O3B's NGSO FSS system.
8. Operations under this authority are on a non-interference basis only.
9. Operations under this authority are on a non-protected basis only.
10. 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. § 25.308(c), (e) and Article 21 of the ITU Radio Regulations.
11. 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.
12. 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.
13. 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.
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.

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. Suite 400	E-Mail: karis@satcomlaw.com
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 SESLIC2016071400662 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 checked="" type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input type="radio"/> Other	
6. Requested Use Prior Date 09/07/2016	
7. City/Bristow	
8. Latitude (dd mm ss.s h) 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: 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 a 60-day extension of the special temporary authority it was granted in File Nos. SES-STA-20150730-00481 and SES-STA-20160129-00108 to operate an earth station in Bristow, VA, with the O3b U.K.-licensed non-geostationary Ka-band satellite system (call sign S2935). As with the prior STAs, SES-GS seeks to operate	
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).	

12. Description

SES Government Solutions (SES-GS) seeks a 60-day extension of the special temporary authority it was granted in File Nos. SES-STA-20150730-00481 and SES-STA-20160129-00108 to operate an earth station in Bristow, VA, with the O3b U.K.-licensed non-geostationary Ka-band satellite system (call sign S2935). As with the prior STAs, SES-GS seeks to operate in the 27.6-28.4 GHz and 28.6-29.1 GHz uplink bands and the 17.8-18.6 GHz and 18.8-19.3 GHz downlink bands for testing and demonstration purposes only. SES-GS has submitted a license application for this site and seeks continued STA pending action on that application. SES-GS incorporates by reference the supporting materials it submitted in File No. SES-STA-20150126-00037.