

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
180 Day STA for Bristow O3b All Beams Demo Jan 2015

1. Applicant

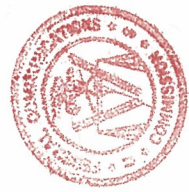
Name:	SES Government Solutions, Inc.	Phone Number:	703-610-0906
DBA Name:		Fax Number:	703-610-1030
Street:	11790 Sunrise Valley Drive Suite 300	E-Mail:	joe.oloughlin@ses-gs.com
City:	Reston	State:	VA
Country:	USA	Zipcode:	20191
Attention:	Mr Joseph A O'Loughlin		

SES STA 2015 0126 - 00037

Call Sign None Grant Date 3-13-15
(or other identifier)

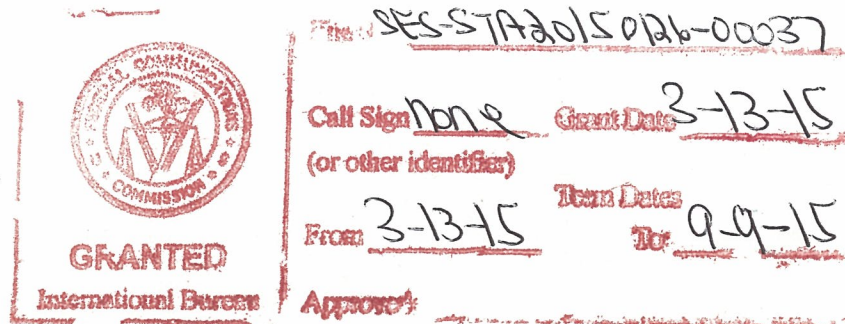
Team Dates From 3-13-15 To 9-9-15

Approved: *Michael E. Blued*



GRANTED
International Bureau

Applicant: SES Government Solutions, Inc.
File No.: SES-STA-20150126-00037
Call Sign: No Call Sign
Special Temporary Authority (STA)



SES Government Solutions, Inc. (SES Government Solutions) is granted STA for 180 days to operate a fixed satellite earth station with two 1.8 meter GD/Prodeline model GDST-1.8M antennas located at a facility in Bristow, Virginia (38 deg 47' 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 's 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. 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 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 checked="" type="radio"/> Other
6. Requested Use Prior Date	
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: 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 seeks special temporary authority for a period of 180 days to operate an earth station in Bristow, VA, with the O3b U.K.-licensed non-geostationary Ka-band satellite system for testing and demonstration purposes only.	
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. <input checked="" type="radio"/> Yes <input type="radio"/> No	
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).	

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

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.

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

SES Government Solutions, Inc. (“SES-GS”) respectfully requests special temporary authority (“STA”) for a period of 180 days to use its earth station in Bristow, VA for communications with 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 3¹ and was previously issued STAs to use the frequencies in O3b’s beam 5 at this location.² In order to maximize its flexibility given constraints on the availability of O3b capacity, SES-GS now seeks authority to use any band segment within the frequencies authorized for O3b’s operations: 17.8-18.6 GHz, 18.8-19.3 GHz, 27.6-28.4 GHz, and 28.6-29.1 GHz. 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 seeking authority to use additional O3b frequencies, no changes from the specifications set forth in those materials are proposed here.

The Commission also has full details regarding the O3b space stations and recently granted U.S. market access for the O3b constellation to allow U.S.-

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 Nos. SES-STA-20140903-00694 (grant-stamped Sept. 5, 2014) & SES-STA-20141106-00843 (grant-stamped Nov. 25, 2014).

licensed earth stations to communicate with the O3b system.³ SES-GS has reviewed the O3b Market Access Grant and confirms that the operations proposed by SES-GS pursuant to the requested STA will fully comply with the terms and conditions set forth therein.

Granting STA 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.⁴

Consistent with the O3b Market Access Grant, the proposed SES-GS operations will provide the required protection to terrestrial operations and geostationary orbit ("GSO") satellites operating in the O3b spectrum. Specifically, SES-GS will not cause harmful interference to, or seek interference protection from, local multipoint distribution service ("LMDS") stations in the 27.6-28.35 GHz band,⁵ GSO FSS networks

³ See O3b Limited, File Nos. SAT-LOI-20141029-00118 & SAT-AMD-20150115-00004, Call Sign S2935, grant-stamped Jan. 22, 2015 ("O3b Market Access Grant").

⁴ O3b has submitted a request for a permanent license at this site, File Nos. SES-LIC-20130618-00516, SES-AMD-20131122-01187, & SES-AMD-20140814-00653. 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).

⁵ The Commission has previously indicated that secondary FSS operations in the 27.6-28.35 GHz band are "for the purpose of providing limited gateway-type service." *Rulemaking to Amend Parts 1, 2, 21, and 25 of the Commission's Rules to Redesignate the 27.5-29.5 GHz Frequency Band, to Reallocate the 29.5-30.0 GHz Frequency Band, to Establish Rules and Policies for Local Multipoint Distribution Service and for Fixed Satellite Services*, First Report and Order and Fourth Notice of Proposed Rulemaking, 11 FCC Rcd 19005, 19025, ¶ 45 (1996). SES-GS believes that the focus of these Commission's statements has been on ensuring that FSS operations are compatible with LMDS by limiting the number and ubiquity of FSS terminals permitted to use the spectrum. The proposal by SES-GS to operate at a single site in Bristow, virtually co-located with an O3b facility, is clearly consistent with this underlying rationale. Furthermore, as noted above, LMDS systems in the vicinity of the site have been notified of the proposed SES-GS operations and have not objected. Accordingly, grant

in the 18.3-18.6 GHz and 28.35-28.4 GHz bands, or terrestrial Fixed Service operations in the 17.8-18.3 GHz band. SES-GS and O3b have submitted evidence of the compatibility of their networks with terrestrial systems and GSO satellites, and SES-GS incorporates that information by reference herein.⁶ As noted above, the proposed SES-GS operations will also comply with the O3b Market Access Grant, which includes explicit conditions to ensure that primary services are not disrupted by communications with the O3b constellation. Furthermore, as noted above, O3b has been authorized to use its Bristow site to communicate with the O3b constellation using two segments of the O3b spectrum, and O3b has been operating a Bristow station in close proximity to the SES-GS terminals throughout the O3b spectrum. To SES-GS' knowledge no complaints of harmful interference have been raised in connection with those operations. SES-GS requests any necessary waiver of the Table of Allocations to permit its proposed use of spectrum in these bands on a non-harmful interference basis.

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.

of the requested SES-GS STA will not undermine the primary spectrum rights of LMDS systems.

⁶ See SES Government Solutions, Inc., File No. SES-STA-20131022-00888, Narrative at 1-3 (showing regarding compatibility of proposed operations with LMDS systems and GSO operations) & Annex 2 (Comsearch reports regarding notification to 28 GHz common carrier, LTTS, and LMDS operators and with 18 GHz common carrier microwave networks). See *a/so* O3b Limited, File No. SES-LIC-20130618-00516, Exhibit 1 at 4-7 (demonstration of O3b's ability to share with primary terrestrial facilities and GSO satellites); & attached Comsearch reports on compatibility with 18 GHz and 28 GHz terrestrial systems.



SatCom Law LLC
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Washington, D.C. 20004
T 202.599.0975
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February 3, 2015

By Electronic Filing

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

**Re: SES Government Solutions, Inc. STA Request to Communicate with O3b,
File No. SES-STA-20150126-00037**

Dear Ms. Dortch:

SES Government Solutions, Inc. ("SES-GS"), by its attorney and pursuant to Section 1.65 of the Commission's rules, 47 C.F.R. § 1.65, hereby updates the record regarding the above-referenced SES-GS request for special temporary authority ("STA") to operate an earth station in Bristow, VA that will communicate with the O3b Ka-band non-geostationary orbit satellite fleet. Specifically, SES-GS confirms that the same emission designators and power levels that SES-GS identified in its initial STA request for operations with O3b beam 3 in File No. SES-STA-20131022-00887 apply to the current STA request, which seeks authority to communicate with O3b in any of its authorized spectrum.

For the Commission's convenience, SES-GS is attaching a Form 312 Schedule B that includes the emission designator and power information for each of the five O3b beams. SES-GS asks that the Commission update the record relating to the SES-GS STA request as outlined above. Please let me know if you have any questions regarding this matter.

Respectfully submitted,

/s/ Karis A. Hastings

Karis A. Hastings
Counsel for SES Government Solutions, Inc.
karis@satcomlaw.com

Attachment

cc: Paul Blais
Trang Nguyen
Towanda Bryant

Approved by OMB
3060-0678

Date & Time Filed:
File Number: ---
Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS	
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	FCC Use Only

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
Attachment to 1.65 Ltr for Bristow O3b Demo Feb 2015

1-8. Legal Name of Applicant			
Name:	SES Government Solutions, Inc.	Phone Number:	703-610-0906
DBA Name:		Fax Number:	703-610-1030
Street:	11790 Sunrise Valley Drive Suite 300	E-Mail:	joe.oloughlin@ses-gs.com
City:	Reston	State:	VA
Country:	USA	Zipcode:	20191 -
Attention:	Mr Joseph A O'Loughlin		
9-16. Name of Contact Representative			
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

CLASSIFICATION OF FILING

<p>17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.</p> <p>a.</p> <p><input checked="" type="radio"/> a1. Earth Station (N/A) a2. Space Station</p>	<p>b.</p> <p><input checked="" type="radio"/> b1. Application for License of New Station <input type="radio"/> b2. Application for Registration of New Domestic Receive-Only Station (N/A) b3. Amendment to a Pending Application (N/A) b4. Modification of License or Registration (N/A) b5. Assignment of License or Registration (N/A) b6. Transfer of Control of License or Registration (N/A) b7. Notification of Minor Modification (N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite (N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States <input type="radio"/> b10. Other (Please specify) <input type="radio"/> b11. Application for Earth Station to Access a Non-U.S. satellite Not Currently</p>
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Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States.	
17c. 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 checked="" type="radio"/> Noncommercial educational licensee <input type="radio"/> Other (please explain):	
17d. Fee Classification BAX - Fixed Satellite Transmit/Receive Earth Station	
18. If this filing is in reference to an existing station, enter: (a) Call sign of station: Not Applicable	19. If this filing is an amendment to a pending application enter: (a) Date pending application was filed: (b) File number of pending application: Not Applicable Not Applicable

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:	
<input checked="" type="checkbox"/> a. Fixed Satellite <input type="checkbox"/> b. Mobile Satellite <input type="checkbox"/> c. Radiodetermination Satellite <input type="checkbox"/> d. Earth Exploration Satellite <input type="checkbox"/> e. Direct to Home Fixed Satellite <input type="checkbox"/> f. Digital Audio Radio Service <input type="checkbox"/> g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose only one. <input checked="" type="radio"/> Common Carrier <input type="radio"/> Non-Common Carrier	22. If earth station applicant, check all that apply. <input type="checkbox"/> Using U.S. licensed satellites <input checked="" type="checkbox"/> Using Non-U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities: <input checked="" type="radio"/> Connected to a Public Switched Network <input checked="" type="radio"/> Not connected to a Public Switched Network <input type="radio"/> N/A	
24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s). <input type="checkbox"/> a. C-Band (4/6 GHz) <input type="checkbox"/> b. Ku-Band (12/14 GHz) <input checked="" type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.) Frequency Lower: 17800 Frequency Upper: 29100	

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one. <input type="radio"/> a. Fixed Earth Station <input checked="" type="radio"/> b. Temporary-Fixed Earth Station <input type="radio"/> c. 12/14 GHz VSAT Network <input type="radio"/> d. Mobile Earth Station (N/A) e. Geostationary Space Station (N/A) f. Non-Geostationary Space Station <input type="radio"/> g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY: Choose only one. <input checked="" type="radio"/> Transmit/Receive <input type="radio"/> Transmit-Only <input type="radio"/> Receive-Only <input type="radio"/> N/A

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)

Not Applicable

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments. Yes No

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30-34.

29. Is the applicant a foreign government or the representative of any foreign government? Yes No

30. Is the applicant an alien or the representative of an alien? Yes No N/A

31. Is the applicant a corporation organized under the laws of any foreign government? Yes No N/A

32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? Yes No N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? Yes No N/A

34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.

BASIC QUALIFICATIONS

35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? Yes No
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.

36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explanation of circumstances. Yes No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explanation of circumstances. Yes No

38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances Yes No

39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhibit, an explanation of the circumstances. Yes No

40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting

10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.

41. 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 No

42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43. Yes No

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station? United Kingdom

43. Description. (Summarize the nature of the application and the services to be provided). SES Government Solutions seeks FCC authority to operate an earth station in Bristow, Virginia, with the O3b U.K.-licensed non-geostationary Ka-band satellite system for testing and demonstration purposes only.

43a. Geographic Service Rule Certification

By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25. A

By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements. B

By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached. C

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applicable response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing
Joseph O'Loughlin

46. Title of Person Signing
CTO

47. Please supply any need attachments.

Attachment 1:	Attachment 2:	Attachment 3:
---------------	---------------	---------------

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).

**SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 - Schedule B:(Technical and Operational Description)**

FOR OFFICIAL USE ONLY

Location of Earth Station Site

E1. Site Identifier:	WMP 1.8m Ka	E5. Call Sign:	
E2. Contact Name	Tim Kavanaugh	E6. Phone Number:	703-350-8665
E3. Street:	8000 Gainsford Ct	E7. City:	Bristow
E4. State	VA	E8. County:	Prince William
E10. Area of Operation:		E9. Zip Code	20136
E11. Latitude:	38 ° 47 ' 0.25 " N		
E12. Longitude:	77 ° 34 ' 24.5 " W		
E13. Lat/Lon Coordinates are:	<input checked="" type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input type="radio"/> N/A
E14. Site Elevation (AMSL):	86.56 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
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E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes	<input type="radio"/> No
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E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input checked="" type="radio"/> Yes	<input type="radio"/> No
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E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input checked="" type="radio"/> Yes	<input type="radio"/> No
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E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input checked="" type="radio"/> Yes	<input type="radio"/> No
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POINTS OF COMMUNICATION

Satellite Name:O3B-A (S2935) O3B-A Eq. NGSO If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna GainTransmint and/or Recieve(dBi at GHz)
WMP 1.8m Ka	Ant 1-2	2	GD/Prodelin	GDST-1.8M	1.8	49.1 dBi at 18.562
						52.8 dBi at 28.362

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)
Ant 1-2	0.0/0.0	2.4	89.0	0.0	40.0	0.0	68.8

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Ant 1-2	17852 18068	R	Left Hand Circular	1M00G7D	0.0	0.0

E50. Modulation and Services Digital Data

Ant 1-2	17852 18068	R	Left Hand Circular	216MG7D	0.0	0.0
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E50. Modulation and Services Digital Data

Ant 1-2	18112 18328	R	Left Hand Circular	1M00G7D	0.0	0.0
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E50. Modulation and Services Digital Data

Ant 1-2	18112 18328	R	Left Hand Circular	216MG7D	0.0	0.0
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E50. Modulation and Services Digital Data

Ant 1-2	18372 18588	R	Left Hand Circular	1M00G7D	0.0	0.0
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E50. Modulation and Services Digital Data

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Ant 1-2	18372 18588	R	Left Hand Circular	216MG7D	0.0	0.0
E50. Modulation and Services Digital Data						
Ant 1-2	18801 19017	R	Left Hand Circular	1M00G7D	0.0	0.0
E50. Modulation and Services Digital Data						
Ant 1-2	18801 19017	R	Left Hand Circular	216MG7D	0.0	0.0
E50. Modulation and Services Digital Data						
Ant 1-2	19055 19271	R	Left Hand Circular	1M00G7D	0.0	0.0
E50. Modulation and Services Digital Data						
Ant 1-2	19055 19271	R	Left Hand Circular	216MG7D	0.0	0.0
E50. Modulation and Services Digital Data						
Ant 1-2	27652 27868	T	Right Hand Circular	1M00G7D	48.6	24.6
E50. Modulation and Services Digital Data						
Ant 1-2	27652 27868	T	Right Hand Circular	216MG7D	68.8	38.8
E50. Modulation and Services Digital Data						
Ant 1-2	27912 28128	T	Right Hand Circular	1M00G7D	48.6	24.6
E50. Modulation and Services Digital Data						
Ant 1-2	27912 28128	T	Right Hand Circular	216MG7D	68.8	38.8
E50. Modulation and Services Digital Data						
Ant 1-2	28172 28388	T	Right Hand Circular	1M00G7D	48.6	24.6
E50. Modulation and Services Digital Data						
Ant 1-2	28172 28388	T	Right Hand Circular	216MG7D	68.8	38.8
E50. Modulation and Services Digital Data						
Ant 1-2	28601 28817	T	Right Hand Circular	1M00G7D	48.6	24.6
E50. Modulation and Services Digital Data						
Ant 1-2	28601 28817	T	Right Hand Circular	216MG7D	68.8	38.8
E50. Modulation and Services Digital Data						
Ant 1-2	28855 29071	T	Right Hand Circular	1M00G7D	48.6	24.6
E50. Modulation and Services Digital Data						
Ant 1-2	28855 29071	T		216MG7D	68.8	38.8

			Right Hand Circular			
E50. Modulation and Services Digital Data						

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits (MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Ant 1-2	Non-Geostationary	17800 18600	0.0/ 0.0	122.4	7.6	238.3	7.0	0.0
	Non-Geostationary	18800 19300	0.0/ 0.0	122.4	7.6	238.3	7.0	0.0
	Non-Geostationary	27600 28400	0.0/ 0.0	122.4	7.6	238.3	7.0	38.8
	Non-Geostationary	28600 29100	0.0/ 0.0	122.4	7.6	238.3	7.0	38.8

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E65. Phone Number	
<p>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</p>			
E62. Street Address			
E63. City	E67. County	E64/68. State/Country	E66. Zip Code

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