

SES-STA-20150730-00481  
SES Government Solutions, Inc.

IE2015001421

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:  
180 Day STA Extension for Bristow O3b All Beams Demo July 2015

1. Applicant

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<b>Country:</b>	USA	<b>Zipcode:</b>	20191
<b>Attention:</b>	Mr Joseph A O'Loughlin		



File # SES-STA-20150730-00481  
Call Sign \_\_\_\_\_ Grant Date 9-15-15  
(or other identifier)  
From: 9-15-15 Term Dates To: 3-14-16  
Approved: Paul E Black

Applicant: SES Government Solutions, Inc.  
File No.: SES-STA-20150730-00481  
Call Sign: No Call Sign  
Special Temporary Authority (STA)



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Approved: [Signature]

SES Government Solutions, Inc. (SES Government Solutions) is granted extension of STA for 180 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 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. Operations of this station during the period from expiration of SES-STA-20150126-00037 to the grant of this special temporary authority was authorized pursuant to Section 1.62 of the Commission's rules, 47 C.F.R. 1.62.
17. 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.