

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
DISA (Ft. Belvoir) STA - 180 days (Oct 2015)

I. Applicant

<b>Name:</b>	O3b Limited	<b>Phone Number:</b>	202-813-4026
<b>DBA Name:</b>		<b>Fax Number:</b>	
<b>Street:</b>	900 17th Street, NW, #300	<b>E-Mail:</b>	suzanne.malloy@o3bnetworks.com
<b>City:</b>	Washington	<b>State:</b>	
<b>Country:</b>	USA	<b>Zipcode:</b>	
<b>Attention:</b>	Ms Suzanne Malloy		

File # SES-STA-20151110-00822  
Call Sign            Grant Date 1-6-15  
(or other identifier)  
Term Dates  
From: 1-16-15 To: 7-7-16  
Approved: Paul E Malloy



Applicant: O3b Limited  
Call Sign: No Call Sign  
File No.: SES-STA-20151110-00822  
Special Temporary Authority



File # SES-STA-20151110-00822  
Call Sign \_\_\_\_\_ Grant Date 1-16-16  
(or other identifier)  
Term Dates  
From: 1-6-16 To: 7-4-16  
Approved: Paul E. Hales

O3b Limited is granted special temporary authority (STA), for 180 days, to conduct non-commercial testing and demonstration purposes of two new 1.2 meter Orbit Communications antennas model AL-7103-Ka at the U.S. Army Base at Fort Belvoir located in Springfield, Virginia (38 deg 45'16.2" NL/ 77deg 11'39.8"WL) to communicate with United Kingdom's authorized non-geosynchronous orbit (NGSO) satellites in the fixed satellite service (FSS) operates by O3b. Operations pursuant to the STA are subject to the terms of its application, the Commission's Rules, and the following conditions.

1. Operations are limited to the following frequency bands and emissions:

Frequency Band	Emissions	Maximum E.I.R.P.	Maximum E.I.R.P. Density
27.652-28.388GHz	216MG7D	60.6 dBW	13.3 dBW/4kHz
27.652-28.388GHz	54MG7D	60.6 dBW	19.3 dBW/4kHz
28.60-29.10GHz	54MG7D	60.6 dBW	19.3 dBW/4kHz
28.60-29.10GHz	216MG7D	60.6 dBW	12.3 dBW/4kHz
17.852-18.588GHz	216MG7D		
17.852-18.588GHz	54MG7D		
18.80-19.30 GHz	216MG7D		
18.80-19.30GHz	54MG7D		

2. Operations are on a secondary basis and O3b must not cause harmful interference to stations operating on a primary basis and must not claim protection from stations operating on a primary basis secondary.

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. The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 C.F.R. §§ 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling or by field measurements. The FCC's OET Bulletin 65 (available on-line at [www.fcc.gov/oet/rfsafety](http://www.fcc.gov/oet/rfsafety)) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.

5. Grant of this authorization is without prejudice to any determination that the Commission may make regarding any pending or future application to communicate with O3b's NGSO FSS system.

6. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at O3b's risk.

7. Pursuant to Section 1.62 of the Commission's rules, 47 C.F.R. §1.62, continued operation under SES-STA-20140903-00686 with the March 30, 2015 grant date continued in effect until grant of this authorization.

8. 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.

<b>2. Contact</b>			
<b>Name:</b>	Joseph A. Godles	<b>Phone Number:</b>	202-429-4900
<b>Company:</b>	Goldberg Godles Wiener & Wright LLP	<b>Fax Number:</b>	202-429-4912
<b>Street:</b>	1229 19th Street, NW	<b>E-Mail:</b>	jgodles@g2w2.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20036 -2413
<b>Attention:</b>		<b>Relationship:</b>	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 SESSTA2014090300686 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 type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other			
6. Requested Use Prior Date			
11/24/2015			

7. CitySpringfield	8. Latitude (dd mm ss.s h) 38 45 16.2 N
9. State VA	10. Longitude (dd mm ss.s h) 77 11 39.8 W
11. Please supply any need attachments. Attachment 1: Extension Request      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.) <div style="border: 1px solid black; padding: 5px; margin: 5px 0;">O3b Limited requests special temporary authority for 180 days to operate a fixed earth station in Ft. Belvoir, VA, with the O3b FSS NGSO satellite system licensed by the United Kingdom in the 27.6-28.4 GHz and 28.6-29.1 GHz (Earth-to-space) and the 17.8-18.6 GHz and 18.8-19.3 GHz (space-to-Earth) frequency bands.</div>	
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"; party to the application; for these purposes. <p style="text-align: right;">Yes <input checked="" type="radio"/> No <input type="radio"/></p>	
14. Name of Person Signing Suzanne Malloy	15. Title of Person Signing Vice President, Regulatory Affairs
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.**

## Request for Extension of Special Temporary Authority

The International Bureau previously granted the request filed by O3b Limited (“O3b”) for special temporary authority (“STA”)<sup>1</sup> to operate a 1.2 meter earth station at a facility in Ft. Belvoir, VA, (the “Ft. Belvoir Earth Station”) with the O3b FSS NGSO satellite system licensed by the United Kingdom in the 27.6-28.4 GHz and 28.6-29.1 GHz (Earth-to-space) and the 17.8-18.6 GHz and 18.8-19.3 GHz (space-to-Earth) frequency bands.

Pursuant to Section 25.120 of the Commission’s rules,<sup>2</sup> O3b hereby requests an extension of its STA covering the 180-day period between November 24, 2015, and May 22, 2016.

O3b’s extension request is supported by good cause. An extension will enable O3b to continue to simulate potential applications of the O3b satellite system for the Department of Defense, including interactive video teleconferencing, interactive access to complex web content from the internet and very large file transfers. By granting O3b’s initial STA request, the Bureau already has found that facilitating these activities is in the public interest.

Accordingly, and for good cause shown, O3b respectfully requests that its STA extension request be granted.

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<sup>1</sup> FCC File No. SES-STA-20140903-00686.

<sup>2</sup> 47 C.F.R. § 25.120.