

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
O3b STA to continue NGSO testing at Melbourne (Apr 2014) - 180 days

1. Applicant

Name:	O3b Limited	Phone Number:	202-352-5985
DBA Name:		Fax Number:	
Street:	900 17th Street, NW, #300	E-Mail:	joslyn.read@o3bnetworks.com
City:	Washington	State:	
Country:	USA	Zipcode:	
Attention:	Ms Joslyn Read		


180 days "with conditions"

File # SES-STA-20140430-00326

Call Sign E130098 Grant Date 06/30/2014  
(or other identifier)

Term Dates  
From 06/30/2014 To 12/30/2014

Approved: *M. E. Read*



**GRANTED**  
International Bureau

O3b Limited  
SES-STA-20140430-00326  
Special Temporary Authority

O3b Limited (O3b) is granted Special Temporary Authority (STA) for 180 days, to operate up to three 2.2 meter antennas, located at a facility in Melbourne, Florida, to communicate with O3b's in-orbit non-geostationary orbit (NGSO) fixed-satellite service (FSS) space station system using the 18.8-19.3 GHz (space-to-Earth) and 28.6-29.1 GHz (Earth-to-space) frequency bands. This grant of STA is subject to the following conditions:


- 1) The antennas will operate from a fixed pedestal located at latitude 28° 5' 24"N, longitude 80° 38' 20.4"W.
- 2) Operations under this STA 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.
- 3) Grant of this STA is without prejudice to any determination that the Commission may make regarding other pending applications, e.g., IBFS File No. SES-LIC-20130618-00516.
- 4) 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.
- 5) 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.
- 6) The earth station EIRP density in the 28.6-29.1 GHz frequency band shall not exceed 36.46 dBW/40 kHz for emission designator 5M12G7D and 27.2 dBW/40 kHz for emission designator 216MG7D.
- 7) The power flux-density at the Earth's surface produced by emissions from O3b's NGSO FSS system transmitting to the 2.2 meter antennas operating pursuant to this STA for all conditions and for all methods of modulation shall not exceed the following values under 47 C.F.R. § 25.208(e) and Article 21 of the ITU Radio Regulations.

-115 dB(W/m <sup>2</sup> ÷MHz)	for 0° ≤ δ < 5°
-115 +(0.5)(δ-5) dB(W/m <sup>2</sup> ÷MHz)	for 5° ≤ δ < 25°
-105 dB(W/m <sup>2</sup> ÷MHz)	for 25° ≤ δ < 90°

δ: is the angle of arrival above the horizontal plane

- 8) O3b may not receive transmission from O3b's NGSO FSS system in the 18.8-19.3 GHz frequency band (space-to-Earth) until O3b has completed coordination of its NGSO FSS system with all Federal FSS systems in the 18.8-19.3 frequency band under 47 C.F.R. § 2.106, Footnote US334.
- 9) 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 DOD.
- 10) This STA is limited to testing operations only. O3b may not provide any commercial service under this STA.
- 11) Any action taken or expense incurred as a result of operations pursuant to this STA is solely at O3b's risk.
- 12) 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.

*180 days*      *"with conditions"*



**GRANTED**  
International Bureau

**FILE** SES-STA-20140430-00326

Call Sign E130098 Grant Date 06/30/2014  
(or other identifier)

From 06/30/2014 Term Dates To 12/30/2014

Approved: Paul E. Hays

**2. Contact**

**Name:** Joseph A. Godles      **Phone Number:** 202-429-4900  
**Company:** Goldberg Godles Wiener & Wright LLP      **Fax Number:** 202-429-4912  
**Street:** 1229 19th St., NW      **E-Mail:** jgodles@g2w2.com  
**City:** Washington      **State:** DC  
**Country:** USA      **Zipcode:** 20036 -2413  
**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

05/10/2014

7. City	Melbourne
8. Latitude (dd mm ss.s h)	28 5 24.0 N
9. State	FL
10. Longitude (dd mm ss.s h)	80 38 20.4 W
11. Please supply any need attachments.	
Attachment 1: STA extension	Attachment 2:
Attachment 3:	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;"> <p>Applicant herein seeks extension of its Special Temporary Authority to continue conducting tests at a facility in Melbourne, Florida, using up to three 2.2m earth stations antennas that operate in the 18.8-19.3 GHz and 28.6-29.1 GHz bands, for a 180-day period, beginning May 10, 2014.</p> </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.	
Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing	Joslyn Read
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 an STA (the "Prior STA") for O3b Limited ("O3b") to conduct earth station antenna tests (the "Prior STA Tests") at a facility in Melbourne, Florida.<sup>1</sup> O3b is conducting the Prior STA Tests using up to three 2.2m earth stations antennas that operate in the 18.8-19.3 GHz and 28.6-29.1 GHz bands.

Pursuant to Section 25.120 of the Commission's rules,<sup>2</sup> O3b hereby requests an STA extension enabling it to continue the Prior STA Tests during the 180-day period between May 10, 2014, and November 6, 2014.<sup>3</sup>

O3b's extension request is supported by good cause. An extension will enable O3b to continue its testing so that it may establish performance standards and operational requirements for its earth stations. By granting O3b's Prior 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> See FCC File No. SES-STA-20130620-00515 (submitted Jun. 20, 2013; granted Aug. 14, 2013).

<sup>2</sup> 47 C.F.R. § 25.120.

<sup>3</sup> O3b has pending requests to extend the Prior STA through May 9, 2014. See FCC File Nos. SES-STA-20131018-00873 and SES-STA-20131018-00874.