

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 ESV's at Melbourne (Aug 2013)

1. Applicant

<b>Name:</b>	O3b Limited	<b>Phone Number:</b>	202 478 7183
<b>DBA Name:</b>		<b>Fax Number:</b>	
<b>Street:</b>	1129 20th St., NW, Suite 1000	<b>E-Mail:</b>	joslyn.read@o3bnetworks.com
<b>City:</b>	Washington	<b>State:</b>	
<b>Country:</b>	USA	<b>Zipcode:</b>	-
<b>Attention:</b>	Ms Joslyn Read		

30 days "with conditions"



File # SES-STA-20130903-00773

Call Sign M/A Grant Date 09/27/2013  
(or other identifier)

Term Dates From 09/11/2013 To: 10/10/2013

Approved: *Paul E. Read*

O3b Limited  
SES-STA-20130903-00773  
Special Temporary Authority

O3b Limited (O3b) is granted Special Temporary Authority (STA) for 30 days, starting September 11, 2013, 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 Nos. SES-LIC-20130528-00455, SES-LIC-20130618-00516 or future STA requests.
- 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.

*30 days*                      *"with conditions"*



**GRANTED**  
International Bureau

File # SES-STA-20130903-00713

Call Sign N/A Grant Date 09/27/2013  
(or other identifier)

From 09/11/2013 Term Dates To: 10/10/2013

Approved: Paul E. Blads

## Request for Extension of Special Temporary Authority

On August 12, 2013, the International Bureau granted the request filed by O3b Limited ("O3b") for special temporary authority ("STA") to conduct tests at a facility in Melbourne, Florida, of up to three 2.2m earth stations on vessels ("ESVs").<sup>1</sup> The STA has a term through September 11, 2013. O3b, pursuant to Section 25.120 of the Commission's rules,<sup>2</sup> hereby requests an extension of its STA covering the 30-day period between September 12, 2013, and October 12, 2013.<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 ESVs. 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-20130620-00515.

<sup>2</sup> 47 C.F.R. § 25.120.

<sup>3</sup> O3b's STA extension request is independent of its separately-filed application for a license to operate ESVs (File No. SES-LIC-20130528-00455), and O3b acknowledges that action on its STA extension request is without prejudice to Commission action on its ESV license application.

<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 St., 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 SESSTA2013062000515 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			
09/12/2013			

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:		
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 Special Temporary Authority to continue conducting tests at a facility in Melbourne, Florida, of up to three 2.2m earth stations on vessels ('ESVs') antennas.</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 &quot;party to the application&quot;; 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		
<p>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).</p>			

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