

O3b Limited

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:
O3b STA to operate at Melbourne to include GSO frequencies (May 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		

"With conditions"

180 days



File# SES-STA-20140429-00314

Call Sign N/A **Grant Date** 06/30/2014
(or other identifier)

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

Approved: *Joslyn E. Read*


O3b Limited
Call Sign: None
SES-STA-20140429-00314

O3b Limited (O3b) is granted Special Temporary Authority (STA) for 180 days, to test three 2.2 meter earth stations as described in its application. Operations under this STA must be in accordance with the terms and conditions contained in O3b's application, the Federal Communication Commission's rules not waived herein, and are subject to the following conditions:

- 1) O3b is granted a waiver of the Table of Frequency Allocations, Section 2.106 of the Commission's rules, and a waiver of the Ka-band Plan, *see* 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 Services and for Fixed Satellite Services, *First Report and Order and Fourth Notice of Proposed Rulemaking*, 11 FCC Rcd 19005 (1996). O3b is authorized to operate in the 18.3-18.6 GHz band on a non-harmful interference basis, that is, O3b must not cause harmful interference to, and must not claim protection from interference caused to it by, any other lawfully operating station, and must cease transmission(s) immediately upon notice of such interference
- 2) O3b's operations in the 28.35-28.4 GHz band 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 any station operating on a primary basis in this band.
- 3) In the event that there is a report of interference, O3b must immediately terminate transmissions and notify the FCC in writing.
- 4) O3b must make all reasonable and customary measures to ensure that the earth station(s) does not create a potential for harmful non-ionizing radiation to persons who may be in the vicinity of the earth station when it is in operation. The earth station operator shall be responsible for assuring that individuals do not stray into the regions around the earth station where there is a potential for exceeding the maximum permissible exposure limits required by 47 C.F.R. §1.1310. This shall be accomplished by means of signs, caution tape, verbal warnings, placement of the earth station so as to minimize access to the hazardous region, and/or other appropriate.
- 5) Grant of this authorization is without prejudice to any action on any pending or future applications or waiver requests filed to provide additional services to, from, or within the United States using O3b Limited's NGSO 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) Antenna elevation for all operations must be at least 5 degrees above the geographic horizon.
- 8) Transmissions from O3b Limited's NGSO space stations to earth stations under this special temporary authority in the 18.3-18.6 GHz frequency band (space-to-Earth) must comply with the power flux-density requirements of 47 C.F.R § 25.208(c) and Article 21 of the International Telecommunication Union Radio Regulations.

- 9) O3b's transmissions to O3b Limited NGSO space stations in the 28.35-28.4 GHz frequency band must comply with the equivalent power flux-density requirements in Article 22.5D of the International Telecommunication Union Radio Regulations.
- 10) O3b's operations in the 18.3-18.6 GHz frequency band must comply with the applicable equivalent power flux-density requirements in Articles 22.5C and 22.5F of the International Telecommunication Union Radio Regulations.
- 11) Transmission between the earth station authorized under this STA and O3b Limited's MGSO space stations must comply with existing and future coordination agreements reached between the United Kingdom and other Administrations, including the United Kingdom and the United States (*see e.g.*, UK telefax SSU 2000 dated 29 May 2009).
- 12) Earth stations authorized under this STA may not receive transmissions from O3b Limited's MGSO space stations in the 18.3-18.6 GHz frequency band (space-to-Earth) until O3b Limited has completed coordination of its NGSO system with all Federal FSS systems in the 18.3-18.6 frequency band under 47 C.F.R. § 2.106, Footnote US334.
- 13) 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 # <u>SES-STA-20140429-00314</u>
	Call Sign <u>N/A</u> Grant Date <u>06/30/2014</u> (or other identifier)
	From <u>06/30/2014</u> Term Dates To <u>12/30/2014</u>
	Approved: <u>Paul E. Glass</u>

2. Contact			
Name:	Joseph A. Godles	Phone Number:	202-429-4900
Company:	Goldberg Godles Wiener & Wright LLP	Fax Number:	202-429-4912
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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 SESSTA2014040300233 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			
06/29/2014			

7. City/Melbourne	8. Latitude (dd mm ss.s h) 28 5 15.5 N
9. State FL	10. Longitude (dd mm ss.s h) 80 38 10.2 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.) Pursuant to Section 25.120 of the Commission's rules, 03b hereby requests an STA extension enabling it to continue testing during the 180-day period between June 29, 2014, and December 26, 2014, in accordance with the attached description.	
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. 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

On April 3, 2014, O3b Limited (“O3b”) submitted a request for special temporary authority (“STA”) for a 30-day period, beginning on May 30, 2014, to conduct tests (the “Tests”) at a facility in Melbourne, Florida (the “30-Day STA Request”).¹ The Tests, which will be conducted using up to three 2.2m earth station antennas that will operate in the 18.3-18.6 GHz and 28.35-28.4 GHz bands, will enable O3b to establish performance standards and operational requirements for the antennas.

Pursuant to Section 25.120 of the Commission’s rules,² O3b hereby requests an STA extension enabling it to continue the Tests during the 180-day period between June 29, 2014, and December 26, 2014.

O3b’s extension request is supported by good cause. The International Bureau previously granted an STA (the “Prior STA”) for O3b to conduct earth station antenna tests at the same location as the proposed Tests.³ The Prior STA authorized operation of the same type of 2.2m earth station antenna as the STA Antennas, but on different frequencies than the Tests.⁴ The same public interest considerations that supported the grant of O3b’s Prior STA also support a grant of this STA Request.

The technical parameters of the Tests, moreover, will protect other services. As demonstrated in the Technical Statement that accompanied the 30-Day STA Request, the Tests will comply with EPFD uplink and downlink limits that the Commission has found provide a sufficient basis for an NGSO FSS system to operate on a noninterference basis in bands, such as the 18.3-18.6 GHz and 28.35-28.4 GHz bands covered by this STA request, in which GSO FSS systems are primary.⁵ The Tests, therefore, will provide the requisite level of protection for GSO FSS systems.⁶

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

¹ FCC File No. SES-STA-20140403-00233.

² 47 C.F.R. § 25.120.

³ See FCC File No. SES-STA-20130620-00515 (submitted Jun. 20, 2013; granted Aug. 14, 2013) (an extension request is pending).

⁴ The Prior STA authorized tests in the 18.8-19.3 GHz and 28.6-29.1 GHz bands. As stated above, this STA Request seeks authority to conduct Tests in the 18.3-18.6 GHz and 28.35-28.4 GHz bands.

⁵ See contact MEO Communications, LLC, 21 FCC Rcd 4035, 4043-4044 (IB 2006).

⁶ O3b also showed in the Technical Statement that the earth station antenna patterns for the proposed uplink transmissions conform to the antenna performance mask specified in Sections 25.209(a) and (b) of the Commission’s rules, and that there are no terrestrial stations in the United States that require protection vis-à-vis the Tests.