

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
E130021 TX gateway STA concerning satellite operational flexibility (Aug 2014)

1. Applicant

Name: O3b Limited **Phone Number:** 202-813-4026

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

File # SES - STA - 20140814-00657

Call Sign E130021 Grant Date 8/15/2014
(or other identifier)

Term Dates From 8/15/2014 To: 10/15/2014

Approved: Paul E. Hickey



Condition of authorization for O3b Limited Special Temporary Authority Applications

SES-STA-20140814-00656 / E100088, Honolulu, HI
SES-STA-20140814-00657 / E130021, Vernon, TX
SES-STA-20140814-00658 / E130098, U.S. Maritime Vessels

O3b Limited (O3b) is granted Special Temporary Authority (STA), for a period of 60 days, commencing on August 15, 2014, to operate its previously authorized earth stations under call signs E100088, E130021 and E130098 consistent with the change in configuration of the O3B-A NGSO network to operate up to two of its eight satellites as spares with the remaining satellites evenly distributed in its circular, 8062 kilometer orbit in the equatorial plane as described in IBFS File No. SES-MOD-20140814-00652. Operations under this earth station must be in accordance with the technical specifications set forth in the regular authorization, the Commission's rules, and are subject to the following conditions:

- 1) Operations under this STA must not cause harmful interference to, and must not claim protection from, interference caused to it by any other lawfully operating radio communication system. In the event of any harmful interference as a result of the operations under this grant of special temporary authority, O3B must cease operations immediately and inform the Commission, in writing, of such an event.
- 2) Grant of this STA is without prejudice to any determination that the Commission may make regarding other pending O3b applications.
- 3) 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.
- 4) 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.
- 5) Any action taken or expense incurred as a result of operations pursuant to this grant of special temporary authority is at O3b's own risk.
- 6) 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.



File # SES-STA-20140814-00657
Call Sign E130021 Grant Date 8-15-14
(or other identifier)
From 8-15-14 Term Dates To: 10-15-14
Approved: Paul E Glass

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 Street, NW **E-Mail:** jgodles@g2w2.com
City: Washington **State:** DC
Country: USA **Zipcode:** 20036 **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 SESLIC2013012400089 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

08/15/2014

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EXHIBIT

O3b Limited (“O3b”) operates a U.K.-authorized, non-geostationary orbit (“NGSO”) Fixed-Satellite Service (“FSS”) system in the Ka-band. This exhibit relates to an expansion of the possible configurations in which O3b positions its NGSO satellites.

The Commission has issued licenses and grants of special temporary authority (“STA”) to O3b and customers of O3b to operate earth stations that communicate with O3b’s system. Various applications for additional earth station licenses and STAs are pending.

In its initial FCC application, which sought authority for a gateway earth station located in Hawaii, O3b stated that it planned to operate eight NGSO satellites that would be spaced equally, *i.e.*, at 45° intervals.¹ The Commission granted this application, and O3b’s license for the Hawaii earth station includes milestones for O3b’s constellation that are premised on an eight-satellite system.²

O3b would like the flexibility to operate up to two of its eight NGSO satellites as in-orbit spares. The remaining satellites would be equally spaced in O3b’s authorized orbital plane, and each in-orbit spare would be co-located with a non-spare satellite.³

This exhibit accompanies various modification applications, STA requests, supplements, and notifications that are being filed with the FCC in connection with O3b’s desire to have the positional flexibility described in the exhibit. The additional orbital configurations identified in the exhibit are consistent with the terms of O3b’s U.K. authorization.⁴

¹ See Application for Hawaii Earth Station, File No. SES-LIC-20100723-00952, Legal Narrative, Section III and Attachment A thereto (Technical Statement), Section A.2.

² See FCC Radio Station Authorization, Call Sign E100088, Condition 90047.

³ No changes are being sought to the technical parameters identified in the licenses and STAs held by O3b and its customers. No changes are being made to O3b’s Schedule S, either, but O3b notes that the number of satellites and phase angles in Section S4 and S5 of Schedule S will vary to the extent that O3b operates one or more in-orbit spare satellites.

⁴ No changes are being made to O3b’s orbital debris mitigation plan, which O3b filed with its Hawaii gateway earth station application, and which the Commission approved in granting that application based on “a finding that O3B Limited is and will be subject to direct and effective regulation by the United Kingdom concerning orbital debris mitigation.” See FCC Radio Station Authorization, Call Sign E100088, Condition 90045. The basis for the Commission’s finding is unchanged.

