

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
O3B-VS10

1. Applicant

Name: Universal Space Network, Inc. Phone Number: 215-328-9130
DBA Name: Fax Number: 215-328-9132
Street: 417 Caredean Drive E-Mail: jgreet@uspacenet.com
Suite A
City: Horsham State: PA
Country: USA Zipcode: 19044
Attention: Joanne Greet


30 days
"with conditions"

File # SES-STA-20141120-00868

Call Sign N/A Grant Date 12/15/2014
(or other identifier)

Term Dates
From 12/18/2014 To 01/17/2015

Approved: Paul E. Blain




GRANTED
International Bureau

Applicant: Universal Space Network, Inc.
No Call Sign
File No.: SES-STA-20141120-00868
Special Temporary Authority (STA)

Universal Space Network Inc. (USN) is granted STA, under the following conditions, to operate USN's ground station in Hawaii to assist the French Space Agency and the Swedish Space Corporation with the launch and early orbit of the O3B-VS10 launch vehicle and spacecraft injection into orbit. Communications will be on 2218 MHz receive-only telemetry, tracking, and data delivery from the launch vehicle.

1. All operations shall be on an unprotected, non-interference basis to both government and non-government operations.
2. In the event of any harmful interference as a result of operations under this grant of STA, USN shall cease operations immediately upon notification of such interference and shall immediately inform the Commission, in writing, of such an event.
3. Operations will operate to receive with 512KF2D.
4. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at USN's own risk.
5. USN Point of Contact for Operation is Joanne Greet 215-328-9130 or 907-490-3064 and must be available while the frequencies are in use.

30 days *"With conditions"*



GRANTED
International Bureau

File # SES-STA-20141120-00868

Call Sign N/A Grant Date 12/15/2014
(or other identifier)

From 12/18/2014 Term Dates To: 01/17/2015

Approved: *Paul E. Blair*

2. Contact

Name: Joanne Greet **Phone Number:** 215-328-9130
Company: Universal Space Network **Fax Number:** 215-328-9132
Street: 417 Caredean Drive **E-Mail:** jgreet@uspacenet.com
 Suite A
City: Horsham **State:** PA
Country: USA **Zipcode:** 19044 -
Attention: Joanne Greet **Relationship:** Same

(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

7. CityNaalehu
8. Latitude
 (dd mm ss.s h) 19 0 50.3 N

9. State HI	10. Longitude (dd mm ss.s h) 155 39 46.6 W
11. Please supply any need attachments. Attachment 1: Waiver Attachment 2: Mission Analysis Attachment 3: FCC312	
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;">Universal Space Networks Hawaii ground station will be used to assist the French Space Agency (CNES) and the Swedish Space Corporation (SSC) with the Launch and Early Orbit (LEOP) of the O3B-VS10 launch vehicle and spacecraft injection into orbit. Communications shall consist of receive only telemetry, tracking, and data delivery from the launch</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" for these purposes. <p style="text-align: right;">Yes <input checked="" type="radio"/> No <input type="radio"/></p>	
14. Name of Person Signing Joanne Greet	15. Title of Person Signing Manager of Compliance and contracts
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.

12. Description

Universal Space Networks Hawaii ground station will be used to assist the French Space Agency (CNES) and the Swedish Space Corporation (SSC) with the Launch and Early Orbit (LEOP) of the O3B-VS10 launch vehicle and spacecraft injection into orbit. Communications shall consist of receive only telemetry, tracking, and data delivery from the launch vehicle. The launch is scheduled for December 18th, 2014 at 18

Exhibit C
PETITION FOR WAIVER OF SECTION 25.137 AND 25.114 AND OF
THE U.S. TABLE OF FREQUENCY ALLOCATIONS

I. TO THE EXTENT THEY APPLY, GOOD CAUSE EXISTS FOR A WAIVER OF CERTAIN PORTIONS OF SECTIONS 25.137 AND 25.114

Universal Space Network, Inc. (USN) is provided limited legal and technical information for the O3B-VS10 Satellite launch vehicle.¹ Pursuant to Section 25.137 of the Federal Communications Commission's ("Commission" or "FCC") rules, the same technical information required by Section 25.114 for U.S.-licensed space station, and certain legal information, must be submitted by earth station applicants "requesting authority to operate with a non-U.S. licensed space station to serve the United States..."² USN seeks authority to support the needed Telemetry and Tracking ("TT but no C") during launch and early orbit support ("LEOP") of the O3B-VS10 spacecraft launch vehicle from launch to earth orbit, not commercial service to the United States, and thus believes that Section 25.137 does not apply.

To the extent the Commission determines, however, that USN's request for authority to provide LEOP on a special temporary basis is a request to serve the United States with a non-U.S.-licensed satellite, USN respectfully requests a waiver of Sections 25.137 and 25.114 of the Commission's rules, to the extent that USN has not herein provided the information required by these rules.³ The Commission may grant a waiver for good cause shown.⁴ A waiver is therefore appropriate if special circumstances warrant a deviation from the general rule, and such a deviation will serve the public interest.

In this case, good cause for a waiver of portions of Section 25.114 exists. USN seeks authority only to conduct LEOP support for O3B-VS10 satellite launch vehicle. Thus, any information sought by Section 25.114 that is not relevant to the LEOP – e.g., antenna patterns, energy and propulsion and orbital debris - USN does not have. In addition, USN would not easily be able to obtain such information because USN is not the operator of the O3B-VS10 satellite or launch vehicle, nor is USN in contractual privity with that operator. Rather, USN has contracted with Swedish Space Corporation, Solna Sweden (SSC) to support the Launch and Early Orbit (LEOP) portion in S-Band of the satellite launch vehicle prior to its operation.

As there is no requested telecommanding for this support, no Comsearch coordination was conducted. Moreover, as with any STA, USN will conduct the LEOP on an unprotected, non-interference basis to government operations.

¹ FCC Form 312 Section B

² 47 C.F.R. § 25.137(a)

³ 47 C.F.R. §§25.137 and 25.114

⁴ 47 C.F.R. §1.3

Because it is not relevant to the service for which USN seeks authorization, and because obtaining the information would be a hardship, USN seeks a waiver of all the technical and legal information required by Section 25.114, to the extent it is not provided herein. As noted above, USN has provided the required information to the extent that it is relevant to the LEOP service for which USN seeks authorization.

Good cause also exists to waive portions of Section 25.137, to the extent the information required is not herein provided. Section 25.137 is designed to ensure that “U.S.-licensed satellite systems have effective competitive opportunities to provide analogous services” in other countries. Here, there is no service being provided by the satellite; USN is providing TT&C while the satellite is on the way to its earth orbit. Thus, the purpose of the information required by Section 25.137 is not implicated here. For example, Section 25.137(d) requires earth station applicants requesting authority to operate with a non-U.S.-licensed space station that is not in orbit and operating to post a bond.⁵ The underlying purpose in having to post a bond – i.e., to prevent warehousing of orbital locations by operators seeking to serve the United States – would not be served by requiring USN to post a bond in order to conduct 1 day of LEOP support of the O3B-VS10 satellite launch vehicle.

It is USN’s understanding that O3B-VS10 is licensed by the European Union as representative of the “Bailiwicks of Jersey” from the Channel Islands. O3B-VS10 is the second launch of a constellation of spacecraft to provide Internet services to remote locations of the world. Thus, the purpose of Section 25.137 – to ensure that U.S. satellite operators enjoy “effective competitive opportunities” to serve foreign markets and to prevent warehousing of orbital locations service the United States – will not be undermined by grant of this waiver request.

Finally, USN notes that it expects to communicate with the O3B-VS10 satellite launch vehicle using its U.S. earth station on a single day for a period of 2 hours. Requiring USN to obtain technical and legal information from an unrelated party, where there is no risk of interference and the operation will cease in less than 1 day would pose undue hardship without serving underlying policy objectives. Given these particular facts, the waiver sought herein is appropriate.

⁵ 47 C.F.R. §25.137(d)(4)

II. GOOD CAUSE EXISTS FOR A WAIVER OF THE UNITED STATES TABLE OF FREQUENCY ALLOCATIONS

USN further requests a waiver of the United States Table of Frequency Allocations ("U.S. Table") as described in section 2.106 of the rules for the frequency bands 2200 – 2290 MHz (Space-to-Earth).⁶ Section footnotes allow for non-federal Government use of these bands in the United States on a case-by-case non-interference basis. Such use by USN necessitates a waiver of the U.S. Table.

Good cause exists to grant USN a limited waiver of the U.S. Table to allow LEOP of the O3B-VS10 satellite launch vehicle. In considering request for case-by-case spectrum uses, the Commission has indicated that it would generally grant such waivers "where there is little potential for interference into any service authorized under the Table of Frequency Allocations and when the case-by-case operator accepts any interference from authorized services."⁷ USN will coordinate with other parties operating communication systems in compliance with the Table of Frequency Allocations to ensure that no harmful interference is caused. USN seeks to operate only pursuant to special temporary authorization and thus agrees to accept any interference from authorized services. In summary, USN's operation on a non-interference, non-protected basis support waiver of the U.S. Table.

⁶ 47 C.F.R. §2.106

⁷ Previously approved STA's for Universal Space Network SES-STA-20020725-01174; SES-STA-20021112-02008; SES-STA-20040315-00475