

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
STA O3B launch vehicle support

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



File # SES-STA-20130603-00464

Call Sign _____ Grant Date 6/20/2013
(or other identifier)

Term Dates
From 6/20/2013 To: 6/30/2013

Approved: Mark E. Blaes

Conditions of grant of SES-STA-20130603-00464

Universal Space Network Inc. is granted special temporary authority, to operate its Naalehu, Ka'u, HI earth station to receive telemetry information from O3b satellites' SOYUZ launch vehicle that will be launching the first flight of O3b space craft. Telemetry information from the Soyuz launch vehicle will be transmitted on the 2218.0 MHz frequency. Operations are authorized under the following conditions.

1. All operations shall be on an unprotected, non-interference basis to government operations. In the event of any harmful interference, cease operations immediately and inform the Commission, in writing, immediately
2. All operations shall be limited to receiving telemetry data from O3b satellites' SOYUZ launch vehicle.
3. This authorization does not grant either market access nor spectrum coordination for any payloads on O3b Satellite.
4. Universal Space Network will inform NTIA (Skotler@ntia.doc.gov, 202-482-7983) and the FCC (Paul.Blais@fcc.gov 202-418-7274) at least 24 hours prior to the planned operations if delayed beyond the requested beginning date of 24 June 2013.
5. The Universal Space Network earth station contact number is 808-929-8069 and the remote control contact number is 215-328-9130 and must be available while the frequencies are in use.



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2. Contact	
Name:	Universal Space Network, Inc.
Company:	
Street:	417 Caredean Drive Suite A
City:	Horsham
Country:	USA
Attention:	Joanne Greet
Phone Number:	215-328-9130
Fax Number:	215-328-9132
E-Mail:	jgreet@uspacenet.com
State:	PA
Zipcode:	19044
Relationship:	
(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?	
<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 checked="" type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee	
<input checked="" 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 type="radio"/> Other	
6. Requested Use Prior Date	
06/20/2013	
7. City Naalehu	
8. Latitude (dd mm ss.s h) 19 0 50.3 N	

9. State HI	10. Longitude (dd mm ss.h) 155 39 46.6 W
11. Please supply any need attachments. Attachment 1: FCC 312 Attachment 2: O3B support 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.) 1 support of the launch vehicle from the USN Hawaii Ground Station. Tentative launch date of 6/24/13. This is a receive only support.	
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 Joanne Greet	15. Title of Person Signing Manager, Contracts & Compliance
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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LEOP support of O3B satellite Launch Vehicle injection from USN's Hawaii ground station

O3B is the first satellite in a series of spacecraft to provide Internet services to less populated areas of the planet. The spacecraft will be launched from French Guiana on a Soyuz vehicle on June 24th, 2013 at 18:53:51 UTC. USN has been contracted to support the pre-injection burn of spacecraft during a single pass for a duration of 114 minutes. Mission profile for USN is shown in figure 1. USN will only receive telemetry and tracking information from the vehicle and will not uplink to the vehicle or spacecraft.

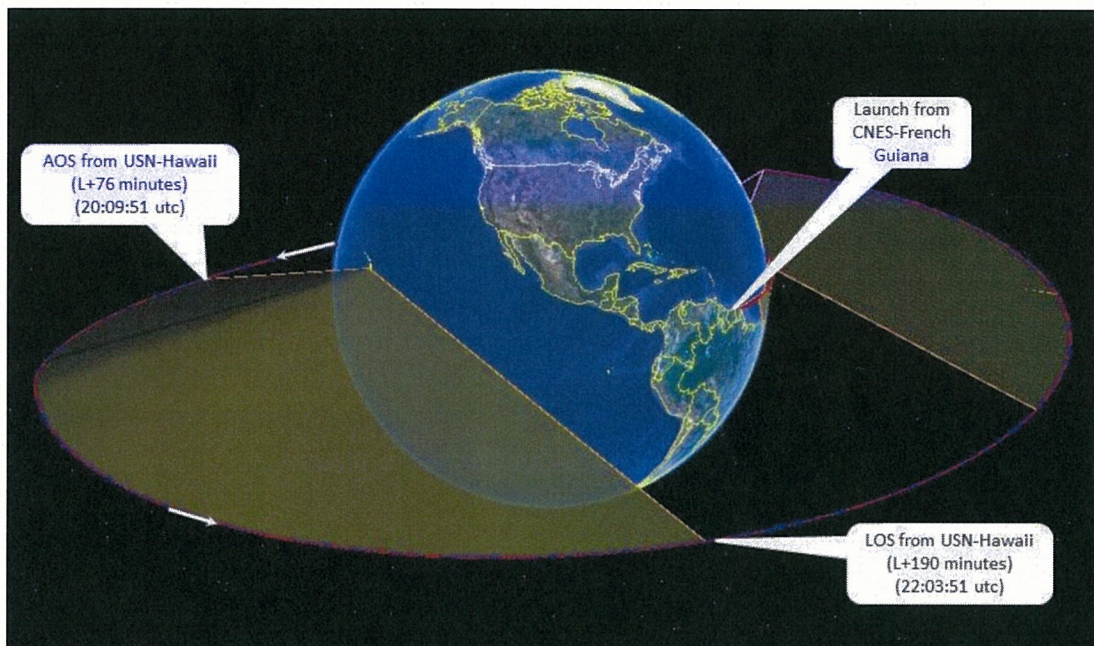


Figure 1 - O3B Launch vehicle coverage from Hawaii

O3B vehicle pass coverage

USN will track the launch vehicle from between the positions shown in table 1 below for a total duration of 114 minutes (also shown in figure 1 above). The tracking frequency is shown in table 2. Data will be collected and forwarded to CNES in real-time.

	Time	Spacecraft sub-earth Latitude	Spacecraft sub-earth Longitude	Spacecraft Altitude
Acquisition of Signal (AOS)	20:09:51utc	2.55° South	149.53° East	5330 Km
Loss of Signal (LOS)	22:03:51utc	0.01° South	92.94° West	7839 Km

Table 1 – Support times and positions

	Downlink	Uplink
Soyuz	2218.0 MHz	N/A

Table 2 – Radio Frequency