

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Special Temporary Authority for uplink in the S-band and UHF-band

1. Applicant

Name:	Denali 20020, LLC	Phone Number:	509-689-1000
DBA Name:		Fax Number:	509-689-3798
Street:	66 C USEI Drive	E-Mail:	TOCC@usei-teleport.com
City:	Brewster	State:	WA
Country:	USA	Zipcode:	98812
Attention:	Mr Darryl White		-

"With conditions"



File # SES-STA-20140224-00097

Call Sign E990069 Date 06/18/2014
(or other identifier)

Term Dates From 06/18/2014 To 07/18/2014

Approved: *[Signature]*

Conditions:

Applicant: Denali 20020, LLC

File Number: SES-STA-20140224-00097

Call Sign: None

Conditions of Authorization:

Denali 20020, LLC, is granted special temporary authority, for 30 days, to communicate with the Planet Labs Earth Exploration Satellites identified as Flock 1 (Call Sign S2912) to test communication links on the antennas and frequency band shown in the table below from its fixed earth stations in Brewster, WA.

Frequency Bands	T/R Mode	Emission Designator	Max EIRP (dBW)	Max EIRP density (dBW/4kHz)	Modulation and services
Antenna 1 ("S/X-band")					
8099.585 to 8166.415 MHz	R	66M8G1D	N/A	N/A	Digital: Payload (Data), TT&C. QPSK and 8-PSK
8166.585 to 8233.415 MHz	R	66M8G1D	N/A	N/A	Digital: Payload (Data), TT&C. QPSK and 8-PSK
2055.345 to 2056.655 MHz	T	1M31F1D	49.01	23.86	Digital: TT&C. MSK
Antenna 2 ("UHF")					
401.270 to 401.33 MHz	R	60K0F1D	N/A	N/A	Digital: TT&C. GFSK
449.970 to 450.03 MHz	T	60K0F1D	25.48	13.72	Digital: TT&C. GFSK

1. Operations on a non-interference basis only.
2. Operations on a non-protected basis only.
3. The Power flux-density from Flock 1 satellite operating in the 8025-8400 MHz band must not exceed the limits in No. 22.5 or Table 21-4 of the International Telecommunication Union's Radio Regulations or the limits in ITU-R Recommendation SA-1157. 3.
4. Planet Labs must disable the data transmitters in the 8025-8400 MHz band on Flock 1 satellites on a one-for-one basis as Flock 1b satellites commence operations in that frequency band.
5. In the event that there is a report of interference, Denali must immediately terminate transmissions and notify the FCC in writing.

6. Grant of this authorization is without prejudice to any determination that the Commission may make regarding any other pending or future Denali applications or the Planet Labs Earth Exploration Satellites identified as Flock 1 (Call Sign S2912).

7. 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.

8. Denali shall take extraordinary measures to ensure that the antenna does not create the potential for exposure of persons who may be within the immediate vicinity of radiofrequency radiation in excess of FCC safety guideline to prevent human exposure in excess of the FCC-specified safety limits. Warning signs, such as those discussed in the FCC's OET Bulletin 65, shall be posted informing members of the public to keep outside the exposure area that exceeds limit.

9. Coordination of operations with the Society of Broadcast Engineers are coordinator is required prior to operations in the 2055.345 to 2056.655 MHz frequency band.

10. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Denali 's own risk.

11. 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.

"With conditions"



File # SES-STA-20140224-00097

Call Sign E990069 **Grant Date** 06/18/2014
(for other identifier)

Term Dates
From 06/18/2014 **To** 07/18/2014

Approved: Paul E. Hlavac

2. Contact	
Name: Denali 20020, LLC	Phone Number: 509-689-1000
Company: 66 C USEI Drive	Fax Number: 509-689-3798
Street: Brewster	E-Mail: TOCCC@usei-teleport.com
City: USA	State: WA
Country: USA	Zipcode: 98812 -
Attention:	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 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 02/28/2014	
7. City Brewster	
8. Latitude (dd mm ss.s h) 48 8 48.3 N	

9. State WA	10. Longitude (dd mm ss.h) 119 42 4.2 W
11. Please supply any need attachments. Attachment 1: Exhibit 1 Attachment 2: Exhibit 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.) Special Temporary Authority for uplink of S-band and UHF-band from the 7.6 meter antenna on Call Sign E990069. This temporary uplink will communicate with the Planet Labs Earth Exploration Satellites identified as Flock 1 thru Flock 28 (Call Sign S2912). This STA will provide support to the deployment and testing of the Planet Labs Earth Exploration	
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"; party to the application; for these purposes. Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing James Veeder	15. Title of Person Signing President
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

Special Temporary Authority for uplink of S-band and UHF-band from the 7.6 meter antenna on Call Sign E990069. This temporary uplink will communicate with the Planet Labs Earth Exploration Satellites identified as Flock 1 thru Flock 28 (Call Sign S2912). This STA will provide support to the deployment and testing of the Planet Labs Earth Exploration Satellites.

Description of Request for Special Temporary Authority

Denali 20020, LLC requests special temporary authority to operate a proposed S-band and UHF earth station off an existing earth station licensed under Call Sign E990069 and located in Brewster, Washington. The proposed earth station will transmit at S-band frequency ranges (2055.345 to 2056.655 MHz) and UHF frequency ranges (449.970 to 450.03 MHz). Testing will involve communications with the Flock 1 thru Flock 28 constellation of non-geostationary orbit (NGSO) Earth Exploration Satellite Service (EESS) imaging satellites.

Launch of the Flock 1 satellites to the International Space Station (ISS) occurred in January 2014. Throughout the months of February and March 2014, all 28 satellites will gradually be deployed from the ISS into low earth orbit and activated. Denali 20020, LLC has an immediate need to assist the operators of these satellites with the testing of operations. Pending testing results during the granted STA period, Denali 20020, LLC intends to file for permanent modification of their existing Call Sign E990069 to add the frequencies requested in this current filing.

Denali 20020, LLC understands that UHF-band operations will be on a non-interference and non-protected basis only.

Frequency Bands	T/R Mode	Emission Designator	Max EIRP (dBW)	Max EIRP density (dBW/4kHz)	Modulation and services
2055.345 to 2056.655 MHz	T	1M31F1D	49.01	23.86	Digital: TT&C. MSK
449.970 to 450.03 MHz	T	60K0F1D	25.48	13.72	Digital: TT&C. GFSK

5 to 5 degrees
0 to 360 degrees

Temporary Frequency Coordination was completed for the transmit band of 2055.345 to 2056.655 MHz and is attached as a Coordination Exhibit to this filing.