

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:
STA request for a 9 meter C-band T/R earth station in Brewster, Wa.

1. Applicant

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

SES-STA-20120516-00443

5-25-16

Call Sign (or other identifier) 7-1-16 Grant Date 5-25-16

From 7-1-16 Terms Dates 7-1-16

Appr. Paul E. Veeder



GRANTED
International Bureau

Applicant: Denali 20020, LLC
File No.: SES-STA-20120516-00443
Special Temporary Authority (STA)

Denali 20020, LLC is granted STA for a 30-day period, beginning July 1, 2012 ending July 31, 2012 in Brewster, Washington with the following conditions:

1. Denali 20020, LLC shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
2. In the event that there is a report of interference, Denali 20020, LLC must immediately terminate transmissions and notify the FCC in writing.
3. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Denali 20020, LLC risk.
4. Denali 20020, LLC shall take all reasonable and customary measures to ensure that the earth station 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.
5. This is granted without prejudice to any future FCC enforcement action in connection with any unauthorized operation of radio facilities.
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 - 20120516 - 00443

Call Sign _____ Grant Date 5-23-12
(or other identifier)

Term Dates
From 7-1-12 To: 7-31-12

Approved: Paul E. Hines

2. Contact	
Name: Mr James Veeder	Phone Number: 509-689-1000
Company: Denali 20020, LLC	Fax Number:
Street: 66 C USEI Drive	E-Mail: TOCC@usei-teleport.com
City: Brewster	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 checked="" type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input type="radio"/> Other	
6. Requested Use Prior Date	
07/01/2012	
7. City/Brewster	
8. Latitude	
(dd mm ss.s h) 48 8 50.0 N	

9. State WA	10. Longitude (dd mm ss.h) 119 41 28.0 W
11. Please supply any need attachments. Attachment 1: Temp Coordination 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.) <div style="border: 1px solid black; padding: 5px;">Request for Special Temporary Authority to operate a proposed 9 meter C-band transmit/receive earth station in Brewster, Washington. A permanent license request will be filed for this antenna once frequency coordination has been completed. The requested start date for the STA is July 1, 2012. The proposed antenna will provide critical</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. 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).	

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

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

Request for Special Temporary Authority to operate a proposed 9 meter C-band transmit/receive earth station in Brewster, Washington. A permanent license request will be filed for this antenna once frequency coordination has been completed. The requested start date for the STA is July 1, 2012. The proposed antenna will provide critical communications support to various Government clients.



COMSEARCH

A CommScope Company

May 16, 2012

Re: Denali 20020, LLC
BREWSTER, WA (9 Meter)
Temporary Transmit/Receive Earth Station
Operation Dates: 07/01/2012 - 07/31/2012
Job Number: 120516COMSGE02

Dear Frequency Coordinator:

On behalf of Denali 20020, LLC, we are forwarding the attached coordination data for a Temporary Transmit/Receive Earth Station to be located at the site referenced above.

This earth station will transmit only on the satellite(s) and frequency or frequencies as described in the attached data. Please do not report cases involving non-active paths or frequencies outside the specified range.

If there are any questions concerning this coordination notice, please contact Comsearch.

Sincerely,

COMSEARCH

Gary K. Edwards
Senior Manager
gedwards@comsearch.com

Enclosure(s)

Date: 05/16/2012
Job Number: <PCNJobCode>

Administrative Information

Status: TEMPORARY (Operation from 07/01/2012 to 07/31/2012)
Call Sign: <PCNCallSign>
Licensee Code: DENALI
Licensee Name: Denali 20020, LLC

Site Information**BREWSTER, WA**

Venue Name
Latitude (NAD 83): 48° 8' 50.0" N
Longitude (NAD 83): 119° 41' 28.0" W
Climate Zone: A
Rain Zone: 5
Ground Elevation (AMSL): 377.01 m / 1236.9 ft

Link Information

Satellite Type: Geostationary
Mode: TR - Transmit-Receive
Modulation: Digital
Satellite Arc: 53° W to 182° West Longitude
Azimuth Range: 107.8° to 248.6°
Corresponding Elevation Angles: 6.7° / 9.5°
Antenna Centerline (AGL): 4.57 m / 15.0 ft

Antenna Information**Receive - FCC32****Transmit - FCC32**

Manufacturer	Vertex	Vertex		
Model	9 Meter	9 Meter		
Gain / Diameter	50.1 dBi / 9.0 m	53.6 dBi / 9.0 m		
3-dB / 15-dB Beamwidth	0.55° / 1.20°	0.40° / 0.80°		
Max Available RF Power	(dBW/4 kHz) (dBW/MHz)	-2.7 21.3		
Maximum EIRP	(dBW/4 kHz) (dBW/MHz)	50.9 74.9		
Interference Objectives:	Long Term Short Term	-156.0 dBW/MHz -146.0 dBW/MHz	20% 0.01%	-154.0 dBW/4 kHz 20% -131.0 dBW/4 kHz 0.0025%

Frequency Information**Receive 4.0 GHz****Transmit 6.1 GHz**

Emission / Frequency Range (MHz)	200KG7D - 72M0G7W / 3700.0 - 4200.0 36M0F3F - 36M0G7W / 3700.0 - 4200.0	200KG7D - 72M0G7W / 5850.0 - 6425.0 36M0F3F - 36M0G7W / 5850.0 - 6425.0
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Max Great Circle Coordination Distance: 471.5 km / 293.0 mi 259.5 km / 161.2 mi
Precipitation Scatter Contour Radius: 448.7 km / 278.8 mi 100.0 km / 62.1 mi

Coordination Values		BREWSTER, WA			
Licensee Name		Denali 20020, LLC			
Latitude (NAD 83)		48° 8' 50.0" N			
Longitude (NAD 83)		119° 41' 28.0" W			
Ground Elevation (AMSL)		377.01 m / 1236.9 ft			
Antenna Centerline (AGL)		4.57 m / 15.0 ft			
Antenna Model		Vertex 9 Meter			
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz	
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power		-2.7 (dBW/4 kHz)			

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz		Coordination Distance (km)
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)	
0	1.15	107.71	-10.00	215.65	-10.00	113.69	
5	1.08	102.73	-10.00	217.84	-10.00	115.56	
10	0.73	97.75	-10.00	235.67	-10.00	129.90	
15	1.37	92.78	-10.00	209.31	-10.00	108.10	
20	1.68	87.80	-10.00	203.17	-10.00	100.20	
25	0.61	82.84	-10.00	242.99	-10.00	134.17	
30	0.59	77.86	-10.00	243.74	-10.00	134.74	
35	0.74	72.89	-10.00	234.65	-10.00	129.12	
40	1.22	67.90	-10.00	213.50	-10.00	111.82	
45	1.57	62.91	-10.00	206.07	-10.00	102.91	
50	1.61	57.94	-10.00	204.94	-10.00	101.85	
55	1.89	52.95	-10.00	197.41	-10.00	100.00	
60	1.82	47.98	-10.00	199.34	-10.00	100.00	
65	2.16	42.99	-8.83	196.35	-8.83	100.00	
70	2.19	38.02	-7.50	201.94	-7.50	100.00	
75	2.45	33.04	-5.97	203.57	-5.97	100.00	
80	2.64	28.06	-4.20	205.61	-4.20	100.00	
85	2.61	23.13	-2.11	217.06	-2.11	106.03	
90	2.78	18.20	0.50	228.07	0.50	112.32	
95	2.92	13.32	3.88	246.92	3.88	122.70	
100	2.86	8.67	8.55	284.81	8.55	140.08	
105	2.47	5.05	14.43	348.55	14.43	178.89	
110	2.24	4.94	14.65	471.53	14.65	259.52	
115	2.23	7.96	9.48	311.78	9.48	157.95	
120	2.64	10.67	6.30	272.85	6.30	135.52	
125	2.75	13.52	3.73	250.60	3.73	125.33	
130	1.82	17.09	1.18	259.50	1.18	134.11	
135	1.11	20.37	-0.72	272.52	-0.72	144.44	
140	0.46	23.43	-2.25	304.74	-2.25	174.12	
145	0.32	25.90	-3.33	315.48	-3.33	183.95	
150	0.00	28.30	-4.30	324.71	-4.30	192.69	
155	0.00	30.17	-4.99	319.75	-4.99	190.03	
160	0.00	31.76	-5.55	315.81	-5.55	187.89	
165	0.00	33.03	-5.97	312.82	-5.97	186.25	
170	0.00	33.96	-6.27	310.10	-6.27	185.09	
175	0.00	34.52	-6.45	308.85	-6.45	184.40	
180	0.00	34.71	-6.51	308.43	-6.51	184.17	
185	0.00	34.52	-6.45	308.85	-6.45	184.40	

Coordination Values		BREWSTER, WA		
Licensee Name		Denali 20020, LLC		
Latitude (NAD 83)		48° 8' 50.0" N		
Longitude (NAD 83)		119° 41' 28.0" W		
Ground Elevation (AMSL)		377.01 m / 1236.9 ft		
Antenna Centerline (AGL)		4.57 m / 15.0 ft		
Antenna Model		Vertex 9 Meter		
Antenna Mode		Receive 4.0 GHz		
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	Transmit 6.1 GHz
	Short Term	-146.0 dBW/MHz	0.01%	-154.0 dBW/4 kHz 20%
Max Available RF Power			-2.7 (dBW/4 kHz)	-131.0 dBW/4 kHz 0.0025%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz		Coordination Distance (km)
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)	
190	0.00	33.96	-6.27	310.09	-6.27	185.09	
195	0.00	33.03	-5.97	312.82	-5.97	186.25	
200	0.00	31.76	-5.55	315.81	-5.55	187.89	
205	0.00	30.18	-4.99	319.74	-4.99	190.02	
210	0.00	28.30	-4.30	324.71	-4.30	192.69	
215	0.00	26.18	-3.45	330.84	-3.45	195.94	
220	0.00	23.84	-2.43	338.31	-2.43	199.83	
225	0.00	21.29	-1.20	347.46	-1.20	204.50	
230	0.00	18.59	0.27	358.68	0.27	208.55	
235	0.24	15.54	2.21	368.02	2.21	212.10	
240	0.28	12.54	4.54	381.40	4.54	217.96	
245	0.42	9.76	7.26	386.23	7.26	216.54	
250	0.46	9.13	7.99	455.22	7.99	255.45	
255	2.09	9.74	7.29	297.52	7.29	151.23	
260	1.67	13.76	3.54	282.58	3.54	146.31	
265	2.56	17.72	0.79	235.48	0.79	117.63	
270	3.14	22.23	-1.68	207.75	-1.68	100.00	
275	3.30	27.02	-3.79	196.27	-3.79	100.00	
280	3.34	31.89	-5.59	186.26	-5.59	100.00	
285	3.12	36.83	-7.16	183.29	-7.16	100.00	
290	2.81	41.79	-8.53	183.18	-8.53	100.00	
295	1.55	46.87	-9.77	205.25	-9.77	104.10	
300	2.02	51.74	-10.00	193.99	-10.00	100.00	
305	2.19	56.66	-10.00	190.27	-10.00	100.00	
310	1.89	61.63	-10.00	197.43	-10.00	100.00	
315	2.21	66.56	-10.00	189.66	-10.00	100.00	
320	2.24	71.51	-10.00	189.09	-10.00	100.00	
325	1.98	76.47	-10.00	194.98	-10.00	100.00	
330	2.07	81.43	-10.00	192.91	-10.00	100.00	
335	1.66	86.39	-10.00	203.78	-10.00	100.77	
340	1.20	91.34	-10.00	214.24	-10.00	112.47	
345	0.49	96.28	-10.00	250.73	-10.00	140.02	
350	0.21	101.20	-10.00	284.02	-10.00	169.56	
355	0.00	106.12	-10.00	285.28	-10.00	170.66	