



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	
			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

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Licensee Name		Denali 20020, LLC			
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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	
			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