



COMSEARCH

A CommScope Company

April 05, 2016

Re: Denali 20020, LLC
BREWSTER, WA
Temporary Transmit-Only Earth Station
Operation Dates: 04/30/2016 - 10/30/2016
Job Number: 160405COMSGE01

Dear Frequency Coordinator:

On behalf of Denali 20020, LLC, we are forwarding the attached coordination data for a Temporary Transmit-Only 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 problems 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: 04/05/2016
Job Number: 160405COMSGE01

Administrative Information

Status TEMPORARY (Operation from 04/30/2016 to 10/30/2016)
Call Sign TEMP10
Licensee Code DENALI
Licensee Name Denali 20020, LLC

Site Information**BREWSTER, WA**

Venue Name
Latitude (NAD 83) 48° 8' 49.3" N
Longitude (NAD 83) 119° 42' 9.2" W
Climate Zone A
Rain Zone 5
Ground Elevation (AMSL) 383.68 m / 1258.8 ft

Link Information

Satellite Type Medium Earth Orbit
Mode TO - Transmit-Only
Modulation Digital
Satellite Arc 51° W to 188° West Longitude
Azimuth Range 106.2° to 253.5°
Corresponding Elevation Angles 5.4° / 5.6°
Antenna Centerline (AGL) 3.66 m / 12.0 ft

Antenna Information**Transmit - FCC32**

Manufacturer NEC
Model G2573C
Gain / Diameter 42.0 dBi / 7.6 m
3-dB / 15-dB Beamwidth 0.50° / 1.00°

Max Available RF Power (dBW/4 kHz) -37.7
(dBW/MHz) -13.7

Maximum EIRP (dBW/4 kHz) 4.3
(dBW/MHz) 28.3

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%
Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information**Transmit 2.0 GHz**

Emission / Frequency Range (MHz) 150KG2D - 1M20G2D / 1997.0 - 2000.0

Max Great Circle Coordination Distance 112.8 km / 70.1 mi
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

Coordination Values	BREWSTER, WA	
Licensee Name	Denali 20020, LLC	
Latitude (NAD 83)	48° 8' 49.3" N	
Longitude (NAD 83)	119° 42' 9.2" W	
Ground Elevation (AMSL)	383.68 m / 1258.8 ft	
Antenna Centerline (AGL)	3.66 m / 12.0 ft	
Antenna Model	NEC 7.6 meter	
Antenna Mode	Transmit 2.0 GHz	
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%
Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-37.7 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 2.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	2.16	106.17	-10.00	100.00
5	2.69	101.18	-10.00	100.00
10	2.37	96.19	-10.00	100.00
15	1.29	91.19	-10.00	100.00
20	1.02	86.21	-10.00	100.00
25	1.80	81.21	-10.00	100.00
30	0.59	76.24	-10.00	100.00
35	0.34	71.27	-10.00	100.00
40	0.66	66.28	-10.00	100.00
45	1.07	61.28	-10.00	100.00
50	0.97	56.31	-10.00	100.00
55	1.03	51.33	-10.00	100.00
60	1.12	46.34	-9.65	100.00
65	1.57	41.34	-8.41	100.00
70	1.86	36.34	-7.01	100.00
75	1.52	31.41	-5.43	100.00
80	2.00	26.39	-3.54	100.00
85	2.34	21.40	-1.26	100.00
90	2.43	16.45	1.60	100.00
95	2.46	11.56	5.42	100.00
100	2.39	6.87	11.07	100.00
105	1.94	3.62	18.02	108.70
110	1.74	5.23	14.05	100.00
115	1.51	8.53	8.73	100.00
120	1.60	11.51	5.48	100.00
125	1.16	14.80	2.74	100.00
130	0.53	18.15	0.53	100.00
135	0.36	20.99	-1.05	100.00
140	0.22	23.64	-2.34	100.00
145	0.00	26.18	-3.45	100.00
150	0.00	28.30	-4.30	100.00
155	0.00	30.17	-4.99	100.00
160	0.00	31.76	-5.55	100.00
165	0.00	33.03	-5.97	100.00
170	0.00	33.96	-6.27	100.00
175	0.00	34.52	-6.45	100.00
180	0.00	34.71	-6.51	100.00
185	0.00	34.52	-6.45	100.00

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Antenna Mode	Transmit 2.0 GHz	
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%
Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-37.7 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 2.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	33.96	-6.27	100.00
195	0.00	33.03	-5.97	100.00
200	0.00	31.76	-5.55	100.00
205	0.00	30.18	-4.99	100.00
210	0.00	28.30	-4.30	100.00
215	0.00	26.18	-3.45	100.00
220	0.00	23.84	-2.43	100.00
225	0.00	21.29	-1.20	102.72
230	0.00	18.59	0.27	106.56
235	0.00	15.73	2.08	111.26
240	0.26	12.56	4.52	112.83
245	2.02	8.13	9.25	100.00
250	3.25	4.05	16.81	100.00
255	3.37	2.72	21.15	105.91
260	3.25	6.93	10.97	100.00
265	3.93	11.64	5.35	100.00
270	4.37	16.56	1.52	100.00
275	4.54	21.54	-1.33	100.00
280	4.73	26.53	-3.59	100.00
285	4.62	31.53	-5.47	100.00
290	4.54	36.53	-7.07	100.00
295	3.98	41.54	-8.46	100.00
300	3.31	46.56	-9.70	100.00
305	1.97	51.61	-10.00	100.00
310	2.77	56.56	-10.00	100.00
315	2.31	61.57	-10.00	100.00
320	1.85	66.57	-10.00	100.00
325	1.63	71.56	-10.00	100.00
330	1.95	76.54	-10.00	100.00
335	2.40	81.53	-10.00	100.00
340	0.48	86.53	-10.00	100.00
345	0.24	91.51	-10.00	100.00
350	0.37	96.49	-10.00	100.00
355	1.22	101.48	-10.00	100.00