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)		

		Transmit 2.0 GHz		
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	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 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)		

			Transmit 2.0 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	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