



November 26, 2019

Re: Denali 20020, LLC
BREWSTER, WA (E190105)
Temporary Transmit-Only Earth Station
Operation Dates: 12/01/2019 - 04/01/2020
Job Number: 191126COMSGE09

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 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: 11/26/2019
Job Number: 191126COMSGE09

Administrative Information

Status TEMPORARY (Operation from 12/01/2019 to 04/01/2020)
Call Sign TEMP04
Licensee Code DENALI
Licensee Name Denali 20020, LLC

Site Information BREWSTER, WA

Venue Name
Latitude (NAD 83) 48° 8' 49.9" N
Longitude (NAD 83) 119° 41' 44.5" W
Climate Zone A
Rain Zone 5
Ground Elevation (AMSL) 385.35 m / 1264.3 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only
Modulation Digital
Satellite Arc 133° W to 133° West Longitude
Azimuth Range 197.6° to 197.6°
Corresponding Elevation Angles 33.2° / 33.2°
Antenna Centerline (AGL) 5.49 m / 18.0 ft

Antenna Information**Transmit - FCC32**

Manufacturer General Dynamics
Model 11.1 Meter
Gain / Diameter 55.5 dBi / 11.1 m
3-dB / 15-dB Beamwidth 0.50° / 1.00°

Max Available RF Power (dBW/4 kHz) -5.8
(dBW/MHz) 18.2

Maximum EIRP (dBW/4 kHz) 49.7
(dBW/MHz) 73.7

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

Frequency Information**Transmit 6.7 GHz**

Emission / Frequency Range (MHz) 20M5G7D / 6639.27

Max Great Circle Coordination Distance 173.9 km / 108.1 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' 49.9" N	
Longitude (NAD 83)	119° 41' 44.5" W	
Ground Elevation (AMSL)	385.35 m / 1264.3 ft	
Antenna Centerline (AGL)	5.49 m / 18.0 ft	
Antenna Model	General Dynamics 11.1 meter	
Antenna Mode	Transmit 6.7 GHz	
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%
Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-5.8 (dBW/4 kHz)	

Transmit 6.7 GHz				
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.33	143.16	-10.00	144.45
5	1.00	145.65	-10.00	108.59
10	0.45	146.45	-10.00	133.97
15	0.85	147.54	-10.00	114.98
20	1.64	148.33	-10.00	100.00
25	0.76	146.80	-10.00	119.15
30	0.37	145.14	-10.00	140.34
35	0.61	143.50	-10.00	126.18
40	0.92	141.40	-10.00	112.23
45	0.88	138.60	-10.00	113.81
50	1.51	135.92	-10.00	100.00
55	1.43	132.48	-10.00	100.00
60	1.71	129.03	-10.00	100.00
65	1.84	125.31	-10.00	100.00
70	1.95	121.44	-10.00	100.00
75	2.10	117.47	-10.00	100.00
80	2.43	113.46	-10.00	100.00
85	2.44	109.29	-10.00	100.00
90	2.55	105.08	-10.00	100.00
95	2.72	100.84	-10.00	100.00
100	2.54	96.54	-10.00	100.00
105	2.22	92.24	-10.00	100.00
110	2.10	87.95	-10.00	100.00
115	1.86	83.69	-10.00	100.00
120	2.02	79.43	-10.00	100.00
125	1.75	75.23	-10.00	100.00
130	1.07	71.19	-10.00	106.71
135	0.65	67.19	-10.00	124.26
140	0.36	63.26	-10.00	141.62
145	0.00	59.47	-10.00	157.27
150	0.00	55.67	-10.00	157.27
155	0.00	52.00	-10.00	157.27
160	0.00	48.49	-10.00	157.27
165	0.00	45.20	-9.38	159.55
170	0.00	42.16	-8.62	162.37
175	0.00	39.44	-7.90	165.14
180	0.00	37.12	-7.24	169.33
185	0.00	35.28	-6.69	171.48

Coordination Values	BREWSTER, WA	
Licensee Name	Denali 20020, LLC	
Latitude (NAD 83)	48° 8' 49.9" N	
Longitude (NAD 83)	119° 41' 44.5" W	
Ground Elevation (AMSL)	385.35 m / 1264.3 ft	
Antenna Centerline (AGL)	5.49 m / 18.0 ft	
Antenna Model	General Dynamics 11.1 meter	
Antenna Mode	Transmit 6.7 GHz	
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%
Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-5.8 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.7 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	33.98	-6.28	173.06
195	0.00	33.31	-6.07	173.90
200	0.00	33.30	-6.06	173.92
205	0.00	33.94	-6.27	173.11
210	0.00	35.21	-6.67	171.57
215	0.00	37.03	-7.21	169.43
220	0.00	39.33	-7.87	165.26
225	0.00	42.03	-8.59	162.50
230	0.00	45.06	-9.34	159.67
235	0.00	48.34	-10.00	157.27
240	0.00	51.84	-10.00	157.27
245	0.46	55.30	-10.00	133.49
250	1.93	58.57	-10.00	100.00
255	3.02	62.24	-10.00	100.00
260	2.12	66.62	-10.00	100.00
265	2.96	70.61	-10.00	100.00
270	3.72	74.73	-10.00	100.00
275	3.83	79.03	-10.00	100.00
280	3.45	83.40	-10.00	100.00
285	3.34	87.74	-10.00	100.00
290	3.38	92.07	-10.00	100.00
295	2.22	96.33	-10.00	100.00
300	1.66	100.53	-10.00	100.00
305	2.49	104.89	-10.00	100.00
310	2.18	109.05	-10.00	100.00
315	1.89	113.14	-10.00	100.00
320	1.59	117.14	-10.00	100.00
325	1.80	121.21	-10.00	100.00
330	2.30	125.34	-10.00	100.00
335	2.09	129.05	-10.00	100.00
340	1.92	132.60	-10.00	100.00
345	1.47	135.75	-10.00	100.00
350	0.63	138.30	-10.00	125.16
355	0.00	140.56	-10.00	157.27