

## **4. EARTH STATION COORDINATION DATA**

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours. The coordination contours include all the area within this route as well as all of the area seaward of this route within 200 km of the baseline of the United States or 200 km from any fixed service offshore installations.

**Skjei Telecom, Inc.**  
**Earth Station Data Sheet**

Date: 12/28/2011  
Job Number: 111228SKJTEL04

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**Administrative Information**

Status ENGINEER PROPOSAL  
Call Sign  
Licensee Code TELESV  
Licensee Name Vizada Satellite Inc -ESV In-Motion

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**Site Information** **NORTH ALASKA, AK**

Venue Name  
Latitude (NAD 83) 69° 38' 53.9" N  
Longitude (NAD 83) 141° 0' 0.0" W  
Climate Zone B  
Rain Zone 2  
Ground Elevation (AMSL) 0.0 m / 0.0 ft

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**Link Information**

Satellite Type Geostationary  
Mode TO - Transmit-Only  
Modulation Digital  
Satellite Arc 177° W to 177° West Longitude  
Azimuth Range 217.8° to 217.8°  
Corresponding Elevation Angles 7.7° / 7.7°  
Antenna Centerline (AGL) 15.54 m / 51.0 ft

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

Manufacturer FCC REFERENCE  
Model 32-25LOG(THETA)  
Gain / Diameter 41.7 dBi / 2.4 m  
3-dB / 15-dB Beamwidth 0.66° / 1.18°

Max Available RF Power (dBW/4 kHz) -10.5  
(dBW/MHz) 13.5

Maximum EIRP (dBW/4 kHz) 31.2  
(dBW/MHz) 55.2  
(dBW)

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

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**Frequency Information** **Transmit 6.1 GHz**

Emission / Frequency Range (MHz) 102KG7D - 205KG7D / 6277.0 - 6283.0  
102KG7D - 205KG7D / 6295.5 - 6298.0  
102KG7D - 205KG7D / 6344.0 - 6350.0  
102KG7D - 205KG7D / 6355.0 - 6371.5  
102KG7D - 205KG7D / 6418.0 - 6423.0

Max Great Circle Coordination Distance 274.2 km / 170.4 mi  
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

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<b>Coordination Values</b>	<b>NORTH ALASKA, AK</b>	
Licensee Name	Vizada Satellite Inc -ESV In-Motion	
Latitude (NAD 83)	69° 38' 53.9" N	
Longitude (NAD 83)	141° 0' 0.0" W	
Ground Elevation (AMSL)	0.0 m / 0.0 ft	
Antenna Centerline (AGL)	15.54 m / 51.0 ft	
Antenna Model	FCC Reference 32-25LOG(THETA)	
Antenna Mode	Transmit 6.1 GHz	
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%
Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-10.5 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	141.56	-10.00	160.62
5	0.00	146.43	-10.00	160.62
10	0.00	151.26	-10.00	160.62
15	0.00	156.02	-10.00	160.62
20	0.00	160.67	-10.00	160.62
25	0.00	165.11	-10.00	160.62
30	0.00	169.06	-10.00	160.62
35	0.00	171.80	-10.00	160.62
40	0.00	171.96	-10.00	160.62
45	0.00	169.44	-10.00	160.62
50	0.00	165.57	-10.00	160.62
55	0.00	161.17	-10.00	160.62
60	0.00	156.53	-10.00	160.62
65	0.00	151.78	-10.00	160.62
70	0.00	146.95	-10.00	160.62
75	0.00	142.09	-10.00	160.62
80	0.00	137.20	-10.00	160.62
85	0.00	132.29	-10.00	160.62
90	0.00	127.37	-10.00	160.62
95	0.00	122.44	-10.00	160.62
100	0.00	117.50	-10.00	160.62
105	0.00	112.55	-10.00	160.62
110	0.00	107.60	-10.00	160.62
115	0.00	102.65	-10.00	160.62
120	0.00	97.70	-10.00	160.62
125	0.00	92.74	-10.00	160.62
130	0.00	87.79	-10.00	160.62
135	0.00	82.84	-10.00	160.62
140	0.00	77.88	-10.00	160.62
145	0.00	72.93	-10.00	160.62
150	0.00	67.98	-10.00	160.62
155	0.00	63.04	-10.00	160.62
160	0.00	58.10	-10.00	160.62
165	0.00	53.16	-10.00	160.62
170	0.00	48.24	-10.00	160.62
175	0.00	43.33	-8.92	165.55
180	0.00	38.44	-7.62	171.74
185	0.00	33.57	-6.15	179.05

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Longitude (NAD 83)	141° 0' 0.0" W	
Ground Elevation (AMSL)	0.0 m / 0.0 ft	
Antenna Centerline (AGL)	15.54 m / 51.0 ft	
Antenna Model	FCC Reference 32-25LOG(THETA)	
Antenna Mode	Transmit 6.1 GHz	
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	-10.5 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	28.74	-4.46	187.86
195	0.00	23.98	-2.50	199.10
200	0.00	19.33	-0.15	212.71
205	0.00	14.89	2.68	230.13
210	0.00	10.94	6.03	252.07
215	0.00	8.20	9.15	272.55
220	0.00	8.04	9.37	274.20
225	0.00	10.56	6.40	254.64
230	0.00	14.43	3.02	232.28
235	0.00	18.83	0.13	214.39
240	0.00	23.47	-2.26	200.42
245	0.00	28.22	-4.27	188.93
250	0.00	33.05	-5.98	179.92
255	0.00	37.91	-7.47	172.47
260	0.00	42.80	-8.79	166.17
265	0.00	47.71	-9.96	160.78
270	0.00	52.63	-10.00	160.62
275	0.00	57.56	-10.00	160.62
280	0.00	62.50	-10.00	160.62
285	0.00	67.45	-10.00	160.62
290	0.00	72.40	-10.00	160.62
295	0.00	77.35	-10.00	160.62
300	0.00	82.30	-10.00	160.62
305	0.00	87.26	-10.00	160.62
310	0.00	92.21	-10.00	160.62
315	0.00	97.16	-10.00	160.62
320	0.00	102.12	-10.00	160.62
325	0.00	107.07	-10.00	160.62
330	0.00	112.02	-10.00	160.62
335	0.00	116.96	-10.00	160.62
340	0.00	121.90	-10.00	160.62
345	0.00	126.84	-10.00	160.62
350	0.00	131.76	-10.00	160.62
355	0.00	136.67	-10.00	160.62

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Name	Latitude	Longitude
BP1	69.648	-141
BP2	69.688	-141.19
BP3	69.651	-141.305
BP4	69.755	-141.589
BP5	70.158	-143.217
BP6	70.129	-143.741
BP7	69.964	-144.931
BP8	70.163	-145.851
BP9	70.191	-146.487
BP10	70.171	-147.161
BP11	70.229	-147.14
BP12	70.254	-147.268
BP13	70.207	-147.435
BP14	70.233	-147.662
BP15	70.325	-147.808
BP16	70.381	-148.262
BP17	70.31	-148.429
BP18	70.349	-148.436
BP19	70.482	-148.823
BP20	70.592	-149.907
BP21	70.447	-150.107
BP22	70.532	-150.379
BP23	70.447	-151.17
BP24	70.443	-151.76
BP25	70.56	-151.728
BP26	70.636	-152.469
BP27	70.795	-152.197
BP28	70.847	-152.255
BP29	70.929	-153.125
BP30	70.853	-154.538
BP31	71.048	-154.496
BP32	71.35	-156.692
BP33	70.994	-157.444
BP34	70.831	-158.035
BP35	70.79	-158.782
BP36	70.817	-159.108
BP37	70.874	-159.193
BP38	70.803	-159.632
BP39	70.35	-160.859
BP40	70.327	-161.897
BP41	69.796	-163.119
BP42	68.983	-164.009
BP43	68.98	-164.013
BP44	68.861	-165.328

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BP45	68.889	-166.233
BP46	68.554	-166.266
BP47	68.367	-166.538
BP48	68.138	-165.979
BP49	68.106	-165.863
BP50	68.098	-165.757
BP51	67.6	-164.102
BP52	67.112	-163.741
BP53	66.969	-162.739
BP54	66.731	-162.503
BP55	66.547	-161.898
BP56	66.323	-161.954
BP57	66.073	-161.777
BP58	66.116	-163.828
BP59	66.4	-163.823
BP60	66.492	-163.714
BP61	66.622	-163.729
BP62	66.553	-164.857
BP63	66.158	-166.497
BP64	66.026	-166.887
BP65	65.673	-168.165
BP66	65.582	-168.094
BP67	65.404	-167.43
BP68	65.31	-166.484
BP69	65.155	-166.51
BP70	65.133	-166.668
BP71	65.068	-166.776
BP72	64.994	-166.713
BP73	64.874	-166.416
BP74	64.758	-166.509
BP75	64.644	-166.406
BP76	64.576	-166.225

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