

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

## **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 seaward of this route within 200 km of the baseline of the United States or 200 km from any fixed service offshore installations.

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**Earth Station Data Sheet**  
 7777 Leesburg Pike, Suite 315N, Falls Church, VA 22043  
 (703)917-4020,(703)917-0098

Date: 12/23/2009  
 Job Number: 091223SKJTEL06

**Administrative Information**

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

**Site Information**

**HILO, HI**  
 Venue Name  
 Latitude (NAD 83) 19° 43' 40.8" N  
 Longitude (NAD 83) 155° 3' 32.4" E  
 Climate Zone B  
 Rain Zone 4  
 Ground Elevation (AMSL) 0.0 m / 0.0 ft

**Link Information**

Satellite Type Geostationary  
 Mode TO - Transmit-Only  
 Modulation Digital  
 Satellite Arc 177° W to 177° West Longitude  
 Azimuth Range 122.5° to 122.5°  
 Corresponding Elevation Angles 50.8° / 50.8°  
 Antenna Centerline (AGL) 15.54 m / 51.0 ft

**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%

**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 160.6 km / 99.8 mi  
 Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

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Coordination Values	HILO, HI
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Latitude (NAD 83)	19° 43' 40.8" N
Longitude (NAD 83)	155° 3' 32.4" E
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	109.85	-10.00	160.62
5	0.00	106.96	-10.00	160.62
10	0.00	103.99	-10.00	160.62
15	0.00	100.94	-10.00	160.62
20	0.00	97.85	-10.00	160.62
25	0.00	94.72	-10.00	160.62
30	0.00	91.56	-10.00	160.62
35	0.00	88.40	-10.00	160.62
40	0.00	85.25	-10.00	160.62
45	0.00	82.11	-10.00	160.62
50	0.00	79.02	-10.00	160.62
55	0.00	75.98	-10.00	160.62
60	0.00	73.00	-10.00	160.62
65	0.00	70.12	-10.00	160.62
70	0.00	67.34	-10.00	160.62
75	0.00	64.69	-10.00	160.62
80	0.00	62.19	-10.00	160.62
85	0.00	59.87	-10.00	160.62
90	0.00	57.75	-10.00	160.62
95	0.00	55.87	-10.00	160.62
100	0.00	54.24	-10.00	160.62
105	0.00	52.89	-10.00	160.62
110	0.00	51.86	-10.00	160.62
115	0.00	51.16	-10.00	160.62
120	0.00	50.81	-10.00	160.62
125	0.00	50.81	-10.00	160.62
130	0.00	51.17	-10.00	160.62
135	0.00	51.87	-10.00	160.62
140	0.00	52.91	-10.00	160.62
145	0.00	54.26	-10.00	160.62
150	0.00	55.89	-10.00	160.62
155	0.00	57.78	-10.00	160.62
160	0.00	59.90	-10.00	160.62
165	0.00	62.22	-10.00	160.62
170	0.00	64.72	-10.00	160.62
175	0.00	67.37	-10.00	160.62
180	0.00	70.15	-10.00	160.62
185	0.00	73.04	-10.00	160.62

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Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
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Max Available RF Power	-10.5 (dBW/4 kHz)

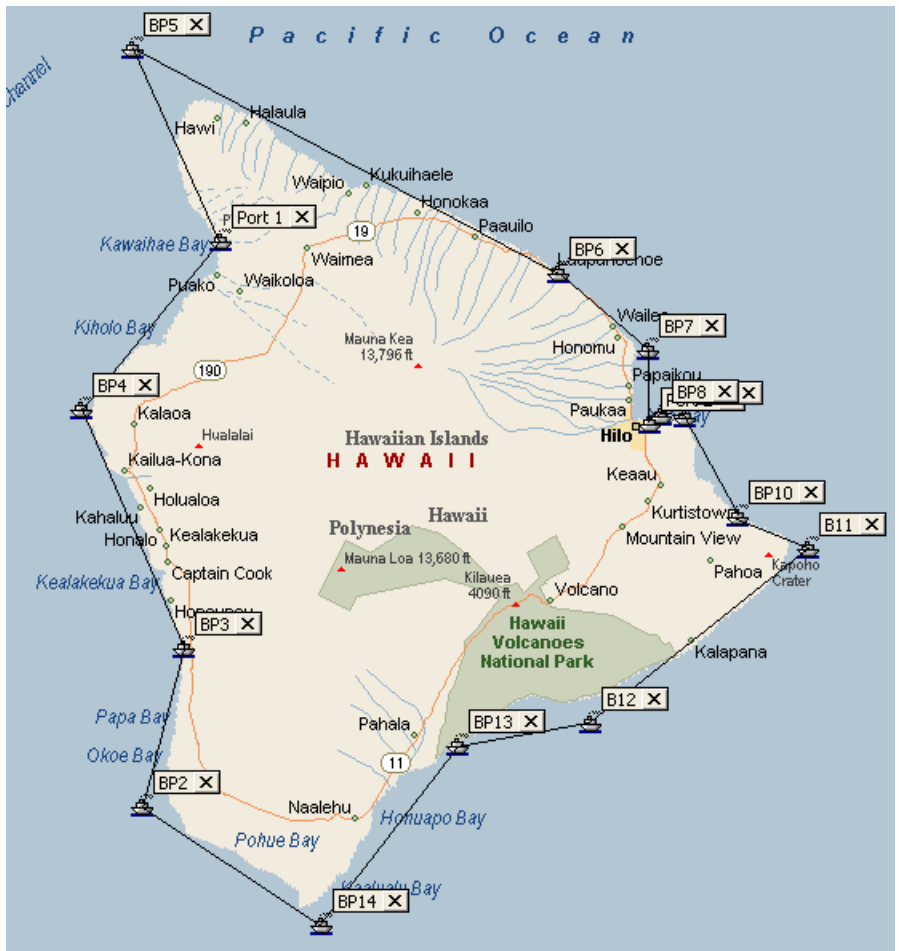
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	76.01	-10.00	160.62
195	0.00	79.06	-10.00	160.62
200	0.00	82.15	-10.00	160.62
205	0.00	85.28	-10.00	160.62
210	0.00	88.44	-10.00	160.62
215	0.00	91.60	-10.00	160.62
220	0.00	94.75	-10.00	160.62
225	0.00	97.89	-10.00	160.62
230	0.00	100.98	-10.00	160.62
235	0.00	104.02	-10.00	160.62
240	0.00	107.00	-10.00	160.62
245	0.00	109.88	-10.00	160.62
250	0.00	112.66	-10.00	160.62
255	0.00	115.31	-10.00	160.62
260	0.00	117.81	-10.00	160.62
265	0.00	120.13	-10.00	160.62
270	0.00	122.25	-10.00	160.62
275	0.00	124.13	-10.00	160.62
280	0.00	125.76	-10.00	160.62
285	0.00	127.11	-10.00	160.62
290	0.00	128.14	-10.00	160.62
295	0.00	128.84	-10.00	160.62
300	0.00	129.19	-10.00	160.62
305	0.00	129.19	-10.00	160.62
310	0.00	128.83	-10.00	160.62
315	0.00	128.13	-10.00	160.62
320	0.00	127.09	-10.00	160.62
325	0.00	125.74	-10.00	160.62
330	0.00	124.11	-10.00	160.62
335	0.00	122.22	-10.00	160.62
340	0.00	120.10	-10.00	160.62
345	0.00	117.78	-10.00	160.62
350	0.00	115.28	-10.00	160.62
355	0.00	112.63	-10.00	160.62

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Break Points:

Name	Latitude	Longitude
Port	19.728	155.059
BP1	19.852	155.061
BP2	19.983	155.221
BP3	20.357	155.985
BP4	20.034	155.828
BP5	19.751	156.074
BP6	19.35	155.892
BP7	19.084	155.964
BP8	18.886	155.645
BP9	19.187	155.402
BP10	19.226	155.167
BP11	19.517	154.777
B12	19.572	154.903
B13	19.739	154.997
BP14	19.742	155.039
NW	20.27	155.271
NE	20.27	154.344

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