

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: 111228SKJTEL03

Administrative Information

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

Site Information **GUAM, GU**

Venue Name
Latitude (NAD 83) 13° 39' 36.3" N
Longitude (NAD 83) 144° 51' 35.6" 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 106.7° to 106.7°
Corresponding Elevation Angles 43.5° / 43.5°
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 165.3 km / 102.7 mi
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

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Coordination Values	GUAM, GU
Licensee Name	Vizada Satellite Inc -ESV In-Motion
Latitude (NAD 83)	13° 39' 36.3" N
Longitude (NAD 83)	144° 51' 35.6" 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	102.05	-10.00	160.62
5	0.00	98.48	-10.00	160.62
10	0.00	94.88	-10.00	160.62
15	0.00	91.26	-10.00	160.62
20	0.00	87.64	-10.00	160.62
25	0.00	84.02	-10.00	160.62
30	0.00	80.43	-10.00	160.62
35	0.00	76.87	-10.00	160.62
40	0.00	73.36	-10.00	160.62
45	0.00	69.93	-10.00	160.62
50	0.00	66.57	-10.00	160.62
55	0.00	63.33	-10.00	160.62
60	0.00	60.21	-10.00	160.62
65	0.00	57.26	-10.00	160.62
70	0.00	54.49	-10.00	160.62
75	0.00	51.94	-10.00	160.62
80	0.00	49.66	-10.00	160.62
85	0.00	47.68	-9.96	160.81
90	0.00	46.04	-9.58	162.52
95	0.00	44.79	-9.28	163.89
100	0.00	43.96	-9.08	164.83
105	0.00	43.57	-8.98	165.27
110	0.00	43.64	-9.00	165.19
115	0.00	44.16	-9.13	164.59
120	0.00	45.13	-9.36	163.52
125	0.00	46.50	-9.69	162.03
130	0.00	48.25	-10.00	160.62
135	0.00	50.32	-10.00	160.62
140	1.06	51.93	-10.00	100.79
145	2.98	53.38	-10.00	100.00
150	3.52	56.11	-10.00	100.00
155	4.04	59.09	-10.00	100.00
160	4.57	62.29	-10.00	100.00
165	4.99	65.71	-10.00	100.00
170	5.17	69.35	-10.00	100.00
175	5.20	73.11	-10.00	100.00
180	5.15	76.96	-10.00	100.00
185	5.12	80.83	-10.00	100.00

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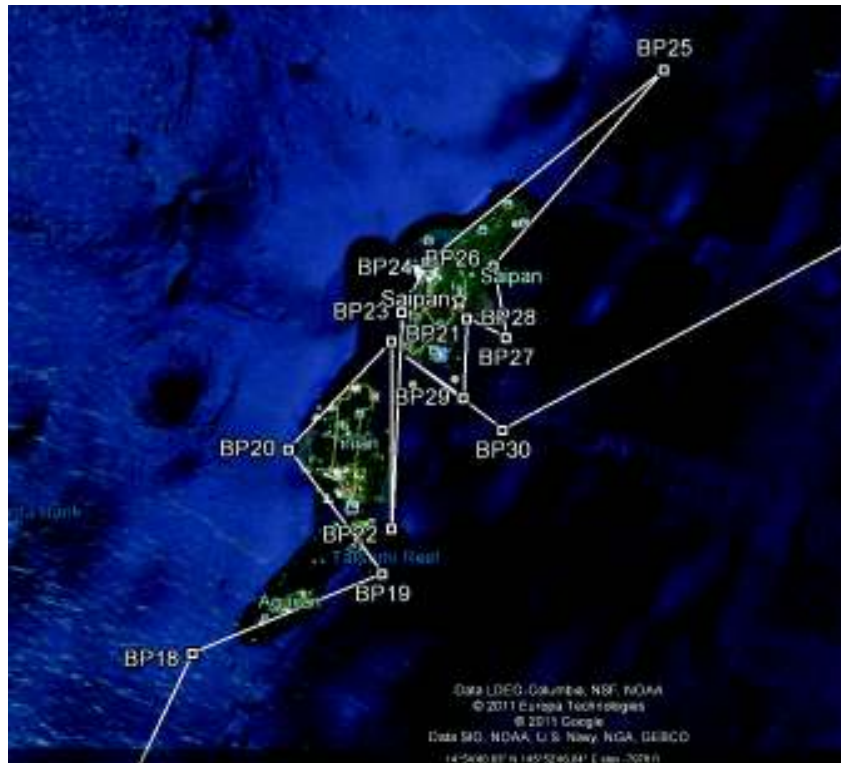
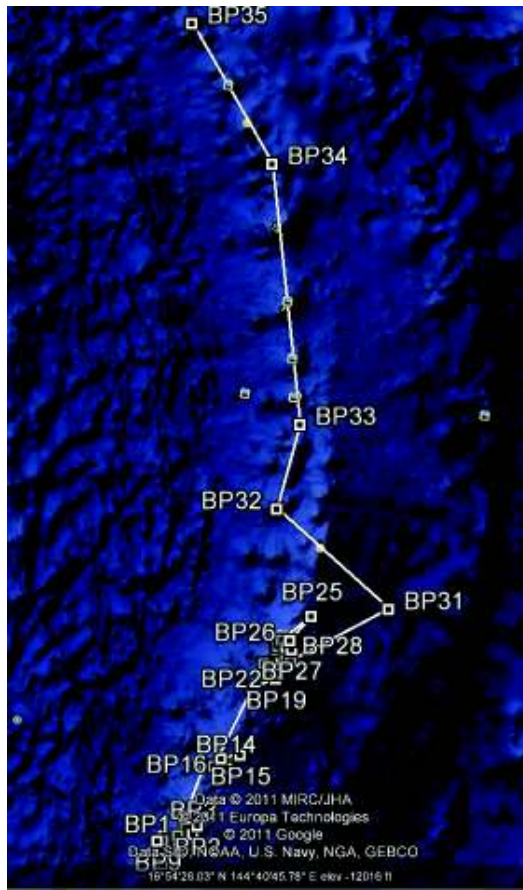
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Antenna Model	FCC Reference 32-25LOG(THETA)	
Antenna Mode	Transmit 6.1 GHz	
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%
Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-10.5 (dBW/4 kHz)	

			Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
190	4.54	84.77	-10.00	100.00
195	4.07	88.66	-10.00	100.00
200	3.43	92.49	-10.00	100.00
205	3.16	96.29	-10.00	100.00
210	1.07	99.74	-10.00	100.58
215	0.00	103.13	-10.00	160.62
220	0.00	106.64	-10.00	160.62
225	0.00	110.07	-10.00	160.62
230	0.00	113.43	-10.00	160.62
235	0.00	116.67	-10.00	160.62
240	0.00	119.79	-10.00	160.62
245	0.00	122.74	-10.00	160.62
250	0.00	125.51	-10.00	160.62
255	0.00	128.06	-10.00	160.62
260	0.00	130.34	-10.00	160.62
265	0.00	132.32	-10.00	160.62
270	0.00	133.96	-10.00	160.62
275	0.00	135.21	-10.00	160.62
280	0.00	136.04	-10.00	160.62
285	0.00	136.43	-10.00	160.62
290	0.00	136.36	-10.00	160.62
295	0.00	135.84	-10.00	160.62
300	0.00	134.87	-10.00	160.62
305	0.00	133.50	-10.00	160.62
310	0.00	131.75	-10.00	160.62
315	0.00	129.68	-10.00	160.62
320	0.00	127.31	-10.00	160.62
325	0.00	124.69	-10.00	160.62
330	0.00	121.86	-10.00	160.62
335	0.00	118.85	-10.00	160.62
340	0.00	115.69	-10.00	160.62
345	0.00	112.41	-10.00	160.62
350	0.00	109.03	-10.00	160.62
355	0.00	105.57	-10.00	160.62

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Name	Latitude (N)	Longitude (E)
BP1	13.66008	144.8599
BP2	13.59769	144.9658
BP3	13.51989	144.9267
BP4	13.41758	144.8011
BP5	13.23619	144.758
BP6	13.2515	144.658
BP7	13.341	144.6306
BP8	13.39208	144.6492
BP9	13.45969	144.6104
BP10	13.44208	144.6653
BP11	13.46539	144.6599
BP12	13.51308	144.7926
BP13	14.13108	145.0238
BP14	14.10228	145.2237
BP15	14.22128	145.3473
BP16	14.1885	145.1788
BP17	14.1225	145.1135
BP18	14.79839	145.451
BP19	14.88358	145.6639
BP20	15.01828	145.5596
BP21	15.1345	145.6754
BP22	14.93208	145.6744
BP23	15.16558	145.6873
BP24	15.21978	145.7161
BP25	15.42558	145.9822
BP26	15.21508	145.7899
BP27	15.1375	145.8039
BP28	15.15839	145.7597
BP29	15.07278	145.7553
BP30	15.03808	145.7993
BP31	15.48169	146.6695
BP32	16.3495	145.674
BP33	17.07358	145.881
BP34	19.32239	145.6315
BP35	20.55978	144.8904

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