

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.

Skjei Telecom, Inc.**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: 091223SKJTEL04

Administrative Information

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

Site Information HONOLULU, HI

Venue Name
 Latitude (NAD 83) 21° 23' 9.6" N
 Longitude (NAD 83) 157° 59' 20.4" 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 128.0° to 128.0°
 Corresponding Elevation Angles 52.2° / 52.2°
 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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Licensee Name	Vizada Satellite Inc -ESV In-Motion
Latitude (NAD 83)	21° 23' 9.6" N
Longitude (NAD 83)	157° 59' 20.4" 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	112.16	-10.00	160.62
5	0.00	109.49	-10.00	160.62
10	0.00	106.72	-10.00	160.62
15	0.00	103.85	-10.00	160.62
20	0.00	100.91	-10.00	160.62
25	0.00	97.92	-10.00	160.62
30	0.00	94.89	-10.00	160.62
35	0.00	91.84	-10.00	160.62
40	0.00	88.78	-10.00	160.62
45	0.00	85.72	-10.00	160.62
50	0.00	82.69	-10.00	160.62
55	0.00	79.69	-10.00	160.62
60	0.00	76.74	-10.00	160.62
65	0.00	73.86	-10.00	160.62
70	0.00	71.06	-10.00	160.62
75	0.00	68.37	-10.00	160.62
80	0.00	65.81	-10.00	160.62
85	0.00	63.39	-10.00	160.62
90	0.00	61.14	-10.00	160.62
95	0.00	59.09	-10.00	160.62
100	0.00	57.26	-10.00	160.62
105	0.00	55.68	-10.00	160.62
110	0.00	54.37	-10.00	160.62
115	0.00	53.36	-10.00	160.62
120	0.00	52.66	-10.00	160.62
125	0.00	52.29	-10.00	160.62
130	0.00	52.26	-10.00	160.62
135	0.00	52.56	-10.00	160.62
140	0.00	53.19	-10.00	160.62
145	0.00	54.14	-10.00	160.62
150	0.00	55.39	-10.00	160.62
155	0.00	56.92	-10.00	160.62
160	0.00	58.70	-10.00	160.62
165	0.00	60.71	-10.00	160.62
170	0.00	62.92	-10.00	160.62
175	0.00	65.31	-10.00	160.62
180	0.00	67.84	-10.00	160.62
185	0.00	70.51	-10.00	160.62

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Latitude (NAD 83)	21° 23' 9.6" N
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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)
190	0.00	73.28	-10.00	160.62
195	0.00	76.15	-10.00	160.62
200	0.00	79.09	-10.00	160.62
205	0.00	82.08	-10.00	160.62
210	0.00	85.11	-10.00	160.62
215	0.00	88.16	-10.00	160.62
220	0.00	91.22	-10.00	160.62
225	0.00	94.28	-10.00	160.62
230	0.00	97.31	-10.00	160.62
235	0.00	100.31	-10.00	160.62
240	0.00	103.26	-10.00	160.62
245	0.00	106.14	-10.00	160.62
250	0.00	108.94	-10.00	160.62
255	0.00	111.63	-10.00	160.62
260	0.00	114.19	-10.00	160.62
265	0.00	116.61	-10.00	160.62
270	0.00	118.86	-10.00	160.62
275	0.00	120.91	-10.00	160.62
280	0.00	122.74	-10.00	160.62
285	0.00	124.32	-10.00	160.62
290	0.00	125.63	-10.00	160.62
295	0.00	126.64	-10.00	160.62
300	0.00	127.34	-10.00	160.62
305	0.00	127.71	-10.00	160.62
310	0.00	127.74	-10.00	160.62
315	0.00	127.44	-10.00	160.62
320	0.00	126.81	-10.00	160.62
325	0.00	125.86	-10.00	160.62
330	0.00	124.61	-10.00	160.62
335	0.00	123.08	-10.00	160.62
340	0.00	121.30	-10.00	160.62
345	0.00	119.29	-10.00	160.62
350	0.00	117.08	-10.00	160.62
355	0.00	114.69	-10.00	160.62

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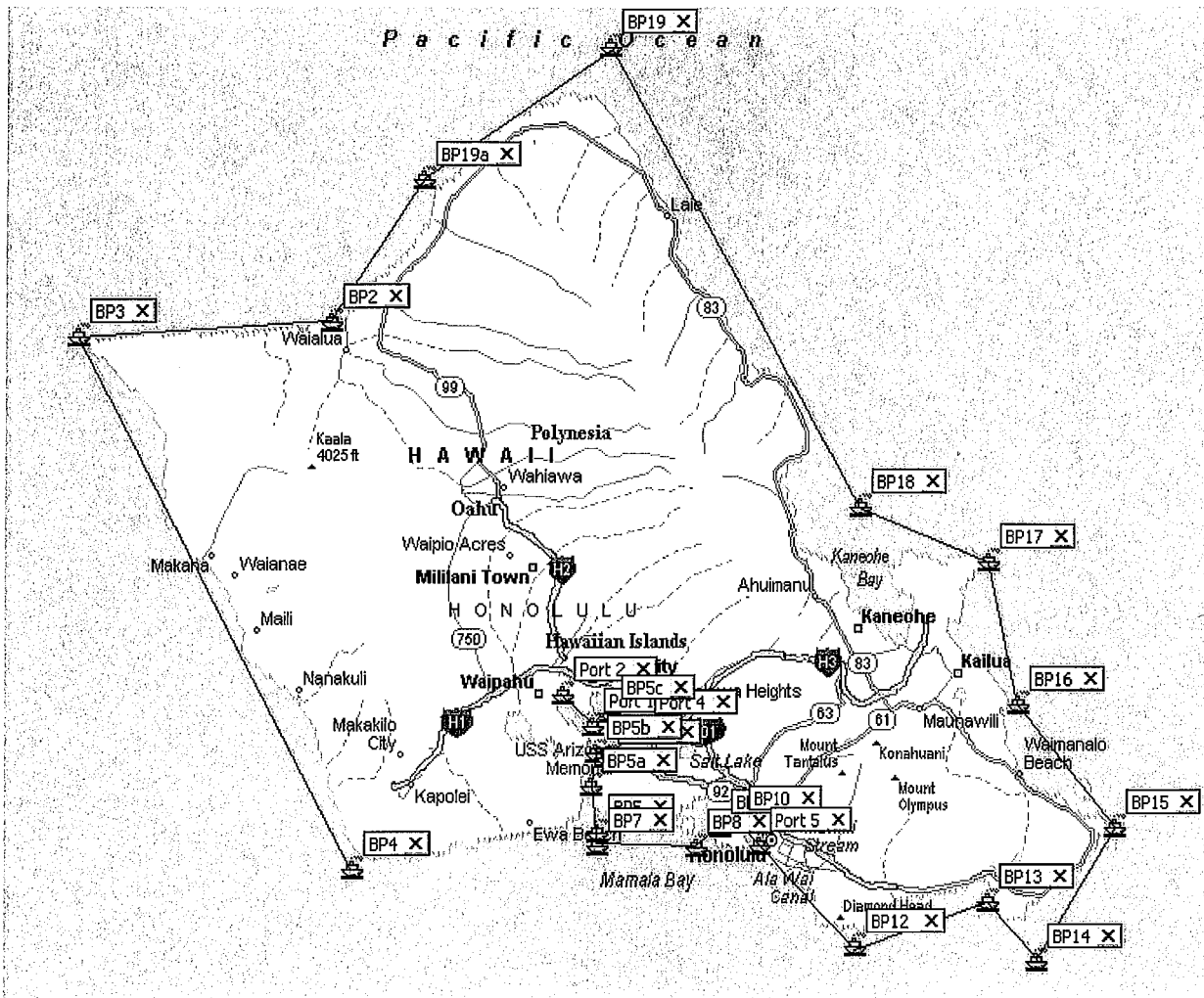
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Break Points:

Name	Latitude	Longitude
Port	21.386	157.989
BP1	21.369	157.97
BP2	21.368	157.939
BP3	21.351	157.961
BP4	21.31	157.967
BP5	21.351	157.971
BP5a	21.3354	157.9706
BP5b	21.3536	157.9677
BP5c	21.3759	157.9596
BP6	21.303	157.967
BP7	21.302	157.905
BP8	21.313	157.891
BP9	21.315	157.88
BP10	21.303	157.866
BP11	21.296	157.871
BP12	21.247	157.806
BP13	21.272	157.722
BP14	21.239	157.692
BP15	21.313	157.643
BP16	21.38	157.703
BP17	21.459	157.722
BP18	21.489	157.802
BP19	21.743	157.96
BP19a	21.6696	158.0762
BP20	21.591	158.133
BP21	21.583	158.291
BP22	21.29	158.119
SW	21.157	158.313
SE	21.157	157.923

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