

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.
ESV Final Report

Date: 05/26/2010
Job Number: 100526SKJTEL06

Administrative Information

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

Site Information **INNERPASSAGE, AK**

Venue Name
Latitude (NAD 83) 55° 20' 31.2" N
Longitude (NAD 83) 131° 38' 56.4" W
Climate Zone B
Rain Zone 3
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 230.9° to 230.9°
Corresponding Elevation Angles 15.2° / 15.2°
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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Coordination Values

INNERPASSAGE, AK	
Licensee Name	Vizada Satellite Inc -ESV In-Motion
Latitude (NAD 83)	55° 20' 31.2" N
Longitude (NAD 83)	131° 38' 56.4" 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	11.16	128.98	-10.00	100.00
5	9.92	133.87	-10.00	100.00
10	10.10	138.84	-10.00	100.00
15	8.21	143.52	-10.00	100.00
20	7.89	148.34	-10.00	100.00
25	8.63	153.34	-10.00	100.00
30	9.03	158.25	-10.00	100.00
35	9.13	163.02	-10.00	100.00
40	9.41	167.69	-10.00	100.00
45	8.37	171.01	-10.00	100.00
50	7.76	172.54	-10.00	100.00
55	8.68	172.33	-10.00	100.00
60	8.81	168.92	-10.00	100.00
65	10.34	165.12	-10.00	100.00
70	10.94	160.46	-10.00	100.00
75	11.17	155.59	-10.00	100.00
80	12.80	150.81	-10.00	100.00
85	14.01	145.89	-10.00	100.00
90	14.89	140.90	-10.00	100.00
95	13.64	135.88	-10.00	100.00
100	12.17	130.83	-10.00	100.00
105	9.18	125.68	-10.00	100.00
110	6.05	120.47	-10.00	100.00
115	4.54	115.43	-10.00	100.00
120	2.01	110.33	-10.00	100.00
125	1.14	105.42	-10.00	100.00
130	0.00	100.52	-10.00	160.62
135	0.00	95.70	-10.00	160.62
140	0.00	90.87	-10.00	160.62
145	0.62	86.03	-10.00	118.38
150	0.89	81.19	-10.00	107.56
155	0.70	76.36	-10.00	116.63
160	0.81	71.52	-10.00	111.43
165	0.96	66.68	-10.00	104.02
170	1.36	61.82	-10.00	100.00
175	1.89	56.93	-10.00	100.00
180	2.12	52.09	-10.00	100.00
185	1.23	47.51	-9.92	100.00

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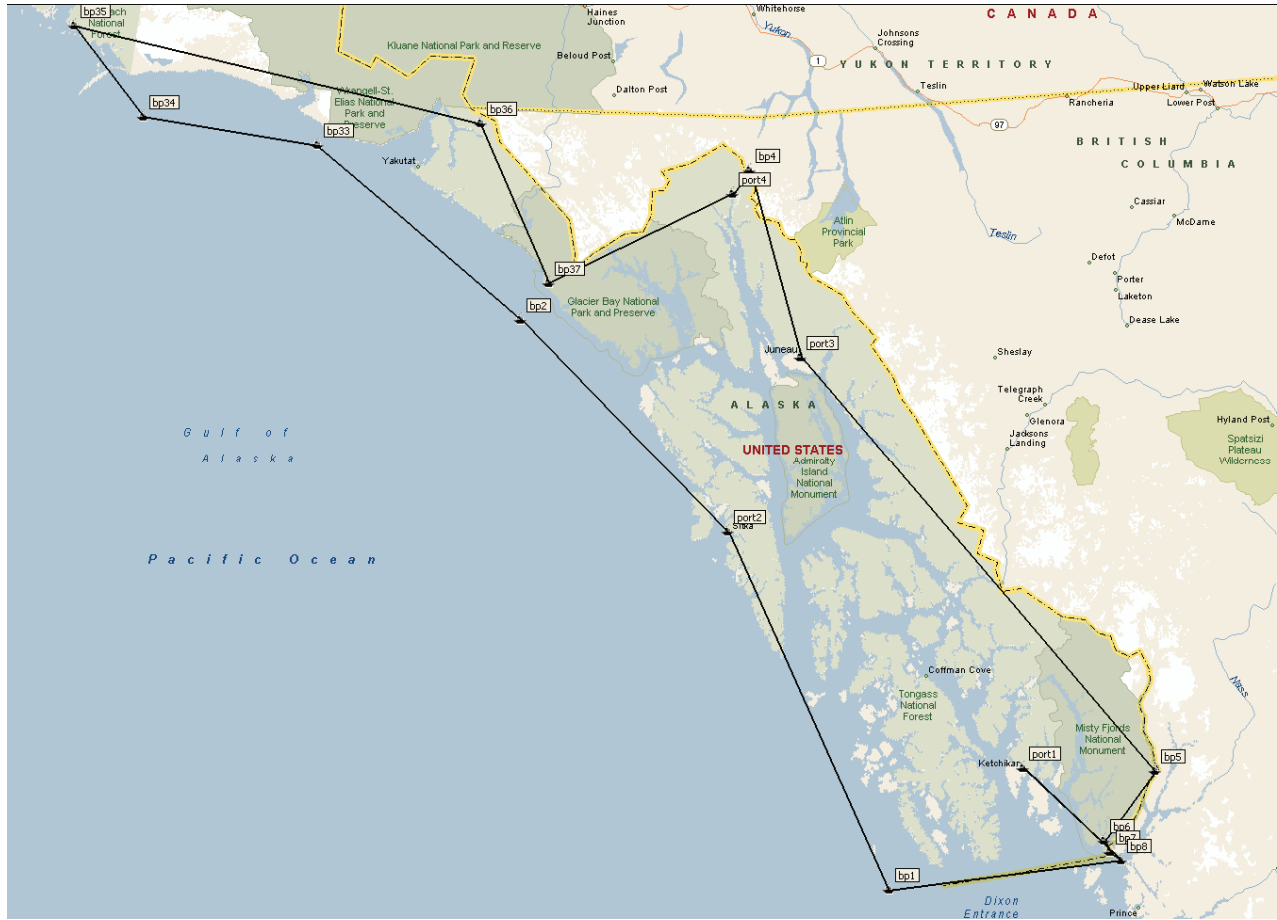
Coordination Values	INNERPASSAGE, AK
Licensee Name	Vizada Satellite Inc -ESV In-Motion
Latitude (NAD 83)	55° 20' 31.2" N
Longitude (NAD 83)	131° 38' 56.4" W
Ground Elevation (AMSL)	0.0 m / 0.0 ft
Antenna Centerline (AGL)	15.54 m / 51.0 ft
Antenna Model	FCC Reference 32-25LOG(THETA)
Antenna Mode	Transmit 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	0.98	42.88	-8.81	106.51
195	1.02	38.23	-7.56	108.02
200	0.65	33.83	-6.23	127.96
205	1.35	29.13	-4.61	108.05
210	3.37	23.87	-2.45	100.00
215	2.46	20.25	-0.66	100.00
220	3.81	15.69	2.11	100.00
225	4.67	12.02	5.00	100.00
230	2.52	12.68	4.42	107.78
235	1.35	14.40	3.04	128.03
240	2.74	15.35	2.35	100.00
245	4.51	17.60	0.86	100.00
250	2.08	23.01	-2.05	100.00
255	3.88	26.46	-3.57	100.00
260	4.58	30.80	-5.21	100.00
265	4.28	35.59	-6.78	100.00
270	4.24	40.36	-8.15	100.00
275	4.86	45.04	-9.34	100.00
280	4.29	49.98	-10.00	100.00
285	3.30	54.98	-10.00	100.00
290	1.82	60.02	-10.00	100.00
295	0.35	65.02	-10.00	140.78
300	0.48	69.81	-10.00	126.73
305	1.41	74.57	-10.00	100.00
310	2.36	79.37	-10.00	100.00
315	5.33	84.18	-10.00	100.00
320	8.95	89.10	-10.00	100.00
325	9.42	94.08	-10.00	100.00
330	11.04	99.07	-10.00	100.00
335	12.87	104.09	-10.00	100.00
340	14.01	109.09	-10.00	100.00
345	14.83	114.10	-10.00	100.00
350	14.57	119.10	-10.00	100.00
355	13.95	124.09	-10.00	100.00

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Name	Latitude	Longitude
bp1	54.509	-133.346
bp2	58.514	-138.184
bp3	59.067	-137.072
bp33	59.643	-141.152
bp34	59.702	-143.634
bp35	60.273	-144.779
bp36	59.886	-138.897
bp37	58.783	-137.833
bp4	59.623	-135.102
bp5	55.268	-130.013
bp6	54.802	-130.692
bp7	54.714	-130.626
bp8	54.65	-130.501
bp9	54.509	-133.346
port1	55.342	-131.649
port2	57.05	-135.345
port3	58.293	-134.397
port4	59.45	-135.326

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