

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.

Date: 11/17/2010
Job Number: 101117SKJTEL02

Administrative Information

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

Site Information SAN FRANCISCO, CA

Venue Name
Latitude (NAD 83) 37° 44' 52.5" N
Longitude (NAD 83) 122° 22' 32.5" W
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 246.5° to 246.5°
Corresponding Elevation Angles 19.0° / 19.0°
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

Coordination Values	SAN FRANCISCO, CA
Licensee Name	Vizada Satellite Inc -ESV In-Motion
Latitude (NAD 83)	37° 44' 52.5" N
Longitude (NAD 83)	122° 22' 32.5" 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	112.14	-10.00	160.62
5	0.59	116.91	-10.00	119.98
10	0.00	121.45	-10.00	160.62
15	0.00	126.05	-10.00	160.62
20	0.00	130.59	-10.00	160.62
25	0.00	135.07	-10.00	160.62
30	0.00	139.46	-10.00	160.62
35	0.00	143.71	-10.00	160.62
40	0.00	147.78	-10.00	160.62
45	0.00	151.59	-10.00	160.62
50	0.00	155.02	-10.00	160.62
55	0.00	157.88	-10.00	160.62
60	0.00	159.93	-10.00	160.62
65	0.00	160.92	-10.00	160.62
70	0.00	160.67	-10.00	160.62
75	0.00	159.23	-10.00	160.62
80	0.00	156.82	-10.00	160.62
85	0.00	153.71	-10.00	160.62
90	0.00	150.11	-10.00	160.62
95	0.00	146.19	-10.00	160.62
100	0.00	142.03	-10.00	160.62
105	0.00	137.72	-10.00	160.62
110	0.00	133.30	-10.00	160.62
115	0.00	128.79	-10.00	160.62
120	0.00	124.22	-10.00	160.62
125	0.00	119.61	-10.00	160.62
130	0.00	114.95	-10.00	160.62
135	0.00	110.28	-10.00	160.62
140	0.00	105.58	-10.00	160.62
145	0.00	100.87	-10.00	160.62
150	0.00	96.15	-10.00	160.62
155	0.00	91.42	-10.00	160.62
160	0.00	86.70	-10.00	160.62
165	0.53	81.95	-10.00	123.38
170	0.41	77.22	-10.00	134.36
175	0.77	72.47	-10.00	113.30
180	0.98	67.72	-10.00	103.24
185	1.10	63.00	-10.00	100.00

Coordination Values	SAN FRANCISCO, CA
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Longitude (NAD 83)	122° 22' 32.5" 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)
190	1.40	58.27	-10.00	100.00
195	1.70	53.54	-10.00	100.00
200	1.88	48.87	-10.00	100.00
205	2.25	44.19	-9.13	100.00
210	2.06	39.75	-7.98	100.00
215	1.20	35.74	-6.83	105.79
220	1.72	31.31	-5.39	100.00
225	1.80	27.30	-3.90	100.00
230	1.49	23.90	-2.46	110.51
235	1.35	20.99	-1.05	115.74
240	1.35	18.80	0.15	119.04
245	0.84	18.25	0.47	139.98
250	0.71	18.63	0.24	148.09
255	1.12	19.76	-0.39	123.30
260	1.88	21.69	-1.41	104.25
265	1.53	25.25	-3.06	108.10
270	1.75	28.87	-4.51	100.00
275	2.25	32.70	-5.87	100.00
280	1.66	37.26	-7.28	100.00
285	1.56	41.71	-8.50	100.00
290	1.65	46.18	-9.61	100.00
295	1.98	50.68	-10.00	100.00
300	1.40	55.46	-10.00	100.00
305	1.08	60.19	-10.00	100.23
310	1.03	64.88	-10.00	101.44
315	0.68	69.64	-10.00	115.63
320	0.39	74.38	-10.00	136.91
325	0.81	79.08	-10.00	111.29
330	0.36	83.84	-10.00	140.39
335	0.25	88.58	-10.00	153.12
340	0.00	93.30	-10.00	160.62
345	0.00	98.03	-10.00	160.62
350	0.00	102.75	-10.00	160.62
355	0.00	107.45	-10.00	160.62

Name	Latitude	Longitude
NW	38.0597	-123.207
BP1	37.8097	-122.515
SW	37.234	-122.583
BP1a	37.8097	-122.515
BP2	37.81589	-122.479
BP3	37.836	-122.467
BP4	37.891	-122.491
BP5	37.851	-122.454
BP6	37.89	-122.432
BP7	37.957	-122.49
BP8	37.866	-122.395
BP9	37.813	-122.469
BP10	37.817	-122.373
Port	37.74792	-122.376
BP11	37.731	-122.352
Port	37.719	-122.359
BP12	37.697	-122.387
BP13	37.602	-122.349
BP14	37.574	-122.263
BP15	37.5337	-122.19
BP16	37.5182	-122.208
BP17	37.5062	-122.126
BP18	37.44583	-122.031
BP19	37.505	-122.117
BP20	37.682	-122.191
BP21	37.751	-122.304
BP22	37.7483	-122.232
BP23	37.776	-122.341
BP24	37.798	-122.333
BP25	37.791	-122.298
Port	37.7946	-122.281
BP26	37.774	-122.241
BP27	37.7946	-122.281
BP28	37.791	-122.298
BP29	37.806	-122.357
BP30	37.849	-122.311
Port	37.919	-122.366
BP31	37.901	-122.359
BP32	37.901	-122.398

BP33	38.058	-122.487
BP34	38.119	-122.436
BP35	38.111	-122.318
BP36	37.992	-122.406
BP37	38.073	-122.25
BP38	38.034	-122.137
BP39	38.139	-122.012
BP40	38.057	-122.05
BP41	38.0625	-121.957
BP42	38.049	-121.904
BP43	38.06	-121.793
BP44	38.113	-121.706
BP45	38.196	-121.656
BP46	38.145	-121.69
BP47	38.059	-121.681
BP48	38.021	-121.742
BP49	38.019	-121.818

