

## **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 data was circulated with a letter dated July 30, 2008.

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

July 30, 2008

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\*\*\* CLIENT COPY \*\*\*  
\*\*\* PLEASE MAIL \*\*\*  
\*\*\* TO CUSTOMER \*\*\*

Re: Vizada Satellite Inc -ESV In-Motion  
HOUSTON, TX  
C-Band Transmit Only Earth Station on Vessel  
Job Number: 080623SKJTEL01

Dear Frequency Coordinator:

This notice is being provided in accordance with Sections 25.203(c) and 25.221 of the FCC Rules and Regulations. We are forwarding the attached coordination data on behalf of Vizada Satellite Inc -ESV In-Motion, 1101 Wootton Parkway, 10th Floor Rockville, MD 20852 for a C-Band Transmit Only Earth Station on Vessel to be located in HOUSTON, TX.

The coordination notice is being circulated to the owners (or their protection agents) of all existing or proposed terrestrial facilities operating in a shared frequency band within the coordination contours of the proposed station(s).

We respectfully request that you examine this data for its interference potential with your system(s). In the event that your analysis identifies potential interference cases that have not been resolved, please contact us by September 4, 2008.

If there are any questions concerning this coordination notice, please contact Skjei Telecom.

Sincerely,

Ken Ryan  
Skjei Telecom, Inc.  
7777 Leesburg Pike, Suite 315N, Falls Church, VA 22043  
Ph :( 703)917-4020, Fax :( 703)917-0098

Enclosure(s)

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

Date: 06/20/2008  
Job Number: 080623SKJTEL01

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**Administrative Information**

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

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**Site Information** **HOUSTON, TX**

Venue Name  
Latitude (NAD 83) 29° 45' 4.0" N  
Longitude (NAD 83) 95° 17' 22.9" W  
Climate Zone B  
Rain Zone 2  
Ground Elevation (AMSL) 0.0 m / 0.0 ft

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**Link Information**

Satellite Type Geostationary  
Mode TO - Transmit-Only  
Modulation Digital  
Satellite Arc 22° W to 22° West Longitude  
Azimuth Range 98.5° to 98.5°  
Corresponding Elevation Angles 5.8° / 5.8°  
Antenna Centerline (AGL) 15.54 m / 51.0 ft

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**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%

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**Frequency Information**

**Transmit 6.1 GHz**

Emission / Frequency Range (MHz) 102KG7D - 204KG7D / 5850.0 - 5864.0  
102KG7D - 204KG7D / 5948.0 - 5970.0

Max Great Circle Coordination Distance 299.4 km / 186.0 mi  
Precipitation Scatter Contour Radius 100.0 km / 62.1 mi

## Skjei Telecom, Inc. Earth Station Data Sheet

### Coordination Values

Licensee Name	HOUSTON, TX		
Latitude (NAD 83)	Vizada Satellite Inc -ESV In-Motion		
Longitude (NAD 83)	29° 45' 4.0" N		
Ground Elevation (AMSL)	95° 17' 22.9" W		
Antenna Centerline (AGL)	0.0 m / 0.0 ft		
Antenna Model	15.54 m / 51.0 ft		
Antenna Mode	FCC Reference 32-25LOG(THETA)		
Interference Objectives: Long Term	Transmit 6.1 GHz		
Short Term	-154.0 dBW/4 kHz	20%	
Max Available RF Power	-131.0 dBW/4 kHz	0.0025%	
	-10.5 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	98.43	-10.00	160.62
5	0.00	93.46	-10.00	160.62
10	0.00	88.48	-10.00	160.62
15	0.00	83.51	-10.00	160.62
20	0.00	78.54	-10.00	160.62
25	0.00	73.56	-10.00	160.62
30	0.00	68.59	-10.00	160.62
35	0.00	63.62	-10.00	160.62
40	0.00	58.66	-10.00	160.62
45	0.00	53.69	-10.00	160.62
50	0.00	48.73	-10.00	160.62
55	0.00	43.78	-9.03	165.03
60	0.00	38.84	-7.73	171.18
65	0.00	33.92	-6.26	178.48
70	0.00	29.01	-4.56	187.32
75	0.00	24.14	-2.57	198.67
80	0.00	19.33	-0.16	212.68
85	0.00	14.65	2.85	231.25
90	0.00	10.26	6.72	256.81
95	0.00	6.76	11.25	288.76
100	0.00	6.00	12.55	299.36
105	0.00	8.72	8.48	267.61
110	0.00	12.89	4.25	240.23
115	0.00	17.49	0.93	219.27
120	0.00	22.26	-1.69	203.72
125	0.00	27.11	-3.83	191.30
130	0.00	32.00	-5.63	181.72
135	0.00	36.92	-7.18	173.88
140	0.00	41.85	-8.54	167.31
145	0.00	46.80	-9.76	161.72
150	0.00	51.76	-10.00	160.62
155	0.00	56.72	-10.00	160.62
160	0.00	61.68	-10.00	160.62
165	0.00	66.65	-10.00	160.62
170	0.00	71.62	-10.00	160.62
175	0.00	76.59	-10.00	160.62
180	0.00	81.57	-10.00	160.62
185	0.00	86.54	-10.00	160.62

## Skjei Telecom, Inc. Earth Station Data Sheet

<b>Coordination Values</b>	<b>HOUSTON, TX</b>
Licensee Name	Vizada Satellite Inc -ESV In-Motion
Latitude (NAD 83)	29° 45' 4.0" N
Longitude (NAD 83)	95° 17' 22.9" 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)

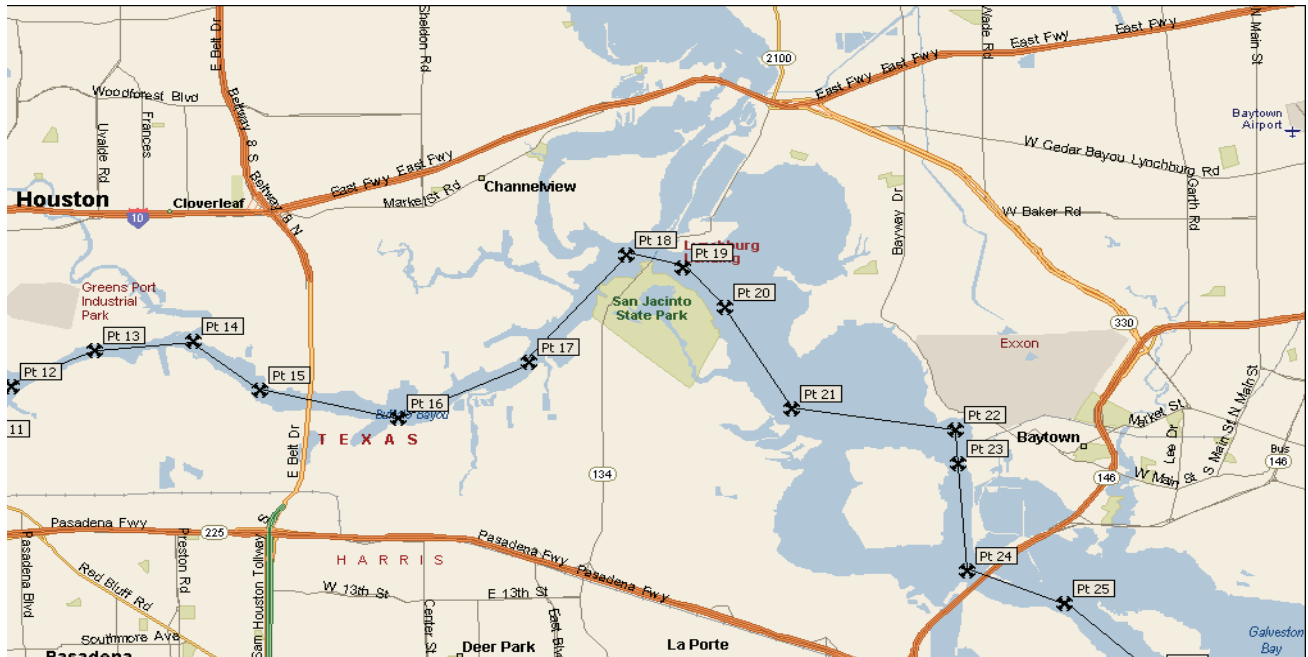
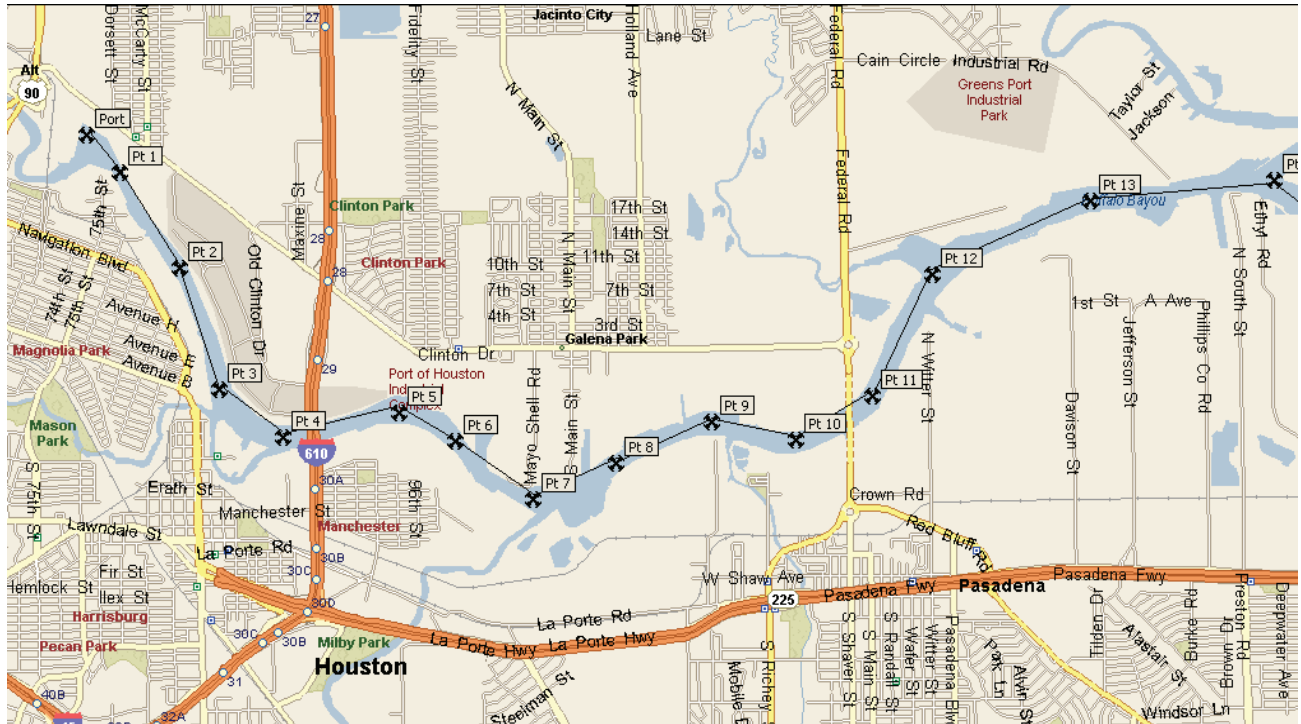
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	91.52	-10.00	160.62
195	0.00	96.49	-10.00	160.62
200	0.00	101.46	-10.00	160.62
205	0.00	106.44	-10.00	160.62
210	0.00	111.41	-10.00	160.62
215	0.00	116.38	-10.00	160.62
220	0.00	121.34	-10.00	160.62
225	0.00	126.31	-10.00	160.62
230	0.00	131.27	-10.00	160.62
235	0.00	136.22	-10.00	160.62
240	0.00	141.16	-10.00	160.62
245	0.00	146.08	-10.00	160.62
250	0.00	150.99	-10.00	160.62
255	0.00	155.86	-10.00	160.62
260	0.00	160.67	-10.00	160.62
265	0.00	165.35	-10.00	160.62
270	0.00	169.74	-10.00	160.62
275	0.00	173.24	-10.00	160.62
280	0.00	174.00	-10.00	160.62
285	0.00	171.28	-10.00	160.62
290	0.00	167.12	-10.00	160.62
295	0.00	162.51	-10.00	160.62
300	0.00	157.74	-10.00	160.62
305	0.00	152.89	-10.00	160.62
310	0.00	148.00	-10.00	160.62
315	0.00	143.08	-10.00	160.62
320	0.00	138.15	-10.00	160.62
325	0.00	133.20	-10.00	160.62
330	0.00	128.24	-10.00	160.62
335	0.00	123.28	-10.00	160.62
340	0.00	118.32	-10.00	160.62
345	0.00	113.35	-10.00	160.62
350	0.00	108.38	-10.00	160.62
355	0.00	103.41	-10.00	160.62

## Skjei Telecom, Inc. Earth Station Data Sheet

Table 1: Houston Breakpoints and the corresponding maps are in the following pages

Name	Latitude	Longitude
Port	29.75111	-95.2897
Pt 1	29.74775	-95.2862
Pt 2	29.73944	-95.2801
Pt 3	29.72878	-95.2761
Pt 4	29.72458	-95.2696
Pt 5	29.72681	-95.2578
Pt 6	29.72431	-95.252
Pt 7	29.71925	-95.2441
Pt 8	29.72233	-95.2356
Pt 9	29.726	-95.2258
Pt 10	29.72444	-95.2172
Pt 11	29.72828	-95.2094
Pt 12	29.73886	-95.2033
Pt 13	29.74531	-95.1872
Pt 14	29.74706	-95.1684
Pt 15	29.73808	-95.1555
Pt 16	29.733	-95.1289
Pt 17	29.7433	-95.104
Pt 18	29.76303	-95.0851
Pt 19	29.76067	-95.0743
Pt 20	29.75344	-95.0663
Pt 21	29.73469	-95.0534
Pt 22	29.731	-95.022
Pt 23	29.72469	-95.0215
Pt 24	29.70514	-95.0198
Pt 25	29.69911	-95.0011
Pt 26	29.6803	-95.0073
Pt 27	29.68533	-94.9833
Pt 28	29.61	-95.0243
Pt 29	29.61078	-94.9545
Pt 30	29.49864	-94.8693
Pt 31	29.36733	-94.8021
Pt 32	29.36116	-94.9165
Pt 33	29.3625	-94.8925
Pt 34	29.3802	-94.8839
Pt 35	29.35078	-94.7801
Pt 36	29.34325	-94.655
Pt 37	29.05369	-94.3682
SW	29	-94.8
SE	29.4	-94

# Skjei Telecom, Inc. Earth Station Data Sheet



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