

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for

**Vizada Satellite, Inc. - Santa Paula
Santa Paula, California**

**Satellite Earth Station
(Call Sign: KB34)**

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
June 6, 2008

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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

The following companies reported potential great circle interference conflicts that did not meet the objectives on a line-of-sight basis. When over-the-horizon losses are considered on the interfering paths, sufficient blockage exists to negate harmful interference from occurring with the proposed transmit and receive earth station.

Company

None

No carriers reported potential interference cases.

3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Expedited coordination data for this earth station was emailed, faxed and forwarded to the below listed carriers with a letter dated May 23, 2008.

Company

AERA ENERGY LLC
ANTELOPE VALLEY EAST KERN WATER AGENCY
ARCHDIOCESE OF LOS ANGELES WELFARE CORP
BNSF Railway Company
Boeing Company
CITY OF POMONA COMMUNICATIONS
California, State of
CBS Broadcasting
Chevron USA Inc.
Exxon Communications Company
Fresno MSA Limited Partnership
GLENDALE CITY CALIFORNIA
INCOMM DIVISION CHURCH OF SCIENTOLOGY
KERN COUNTY CALIFORNIA
KTLA, Inc.
LOS ANGELES CITY WATER & POWER
LOS ANGELES UNIFIED SCHOOL DISTRICT
Los Angeles City Info Technology Agency
Los Angeles County Dept of Public Works
Los Angeles County FCC Licensing Section
Los Angeles County Metro Transit Auth
Los Angeles SMSA Ltd. Partnership
Los Angeles Television Station KCAL, LLC
METROPOLITAN WATER DIST OF SO CALIFORNIA
MOBILE RELAY ASSOCIATES INC
NBC Telemundo License Co.
New Cingular Wireless PCS - Los Angeles
New Cingular Wireless PCS LLC - N CAL
ORANGE, COUNTY OF, CA
PACIFIC PIPELINE SYSTEM LLC
Pacific Gas and Electric Company
Pappas Southern California License, LLC
Plains Exploration & Production Company

Company (Continued)

SANTA BARBARA COUNTY
Society of Broadcast Engineers (SBE)
Southern California Edison Company
Southern California Gas Company
Time Warner NY Cable, Inc.
Union Pacific Railroad Company
VENOCO, INC.
Ventura, County of
Verizon California Inc.
Verizon Delaware, Inc.
Verizon Maryland, Inc
Verizon Virginia, Inc
Verizon North, Inc.
Verizon Northwest, Inc.
Verizon South, Inc.
Verizon New England, Inc.
Verizon New Jersey, Inc.
Verizon New York, Inc.
Verizon Pennsylvania, Inc
Verizon Washington, DC, Inc.
Bellsouth Telecommunications, Inc.
Indiana Bell Telephone Company, Inc
Ohio Bell Telephone Company
Chicago Comnet Corp.
Ascent Media Network Services. LLC
Mercury Communications
Quick Link Connections, Inc.
Direct Broadcasting Service, Inc.
Village Video Production, Inc.
New England Satellite Systems, Inc
Steven K. Morveen
News/Sports Microwave Rental, Inc.
Information Superstation, LLC
Broadcast Communications Microwave, Inc.
Global Microwave Systems, Inc.
Penn Service Microwave Company, Inc.
HF Enterprises dba HSE Communications, Inc.
Broadcast Sports Corp.
HBJ Parkes, Inc.
RF Central. LLc
Westar Satellite Services. LP
AT&T California
Cincinnati Bell Telephone Company, LLC
Wisconsin Bell, Inc.
Illinois Bell Telephone Company
GSN News, Inc.
Coptervision
Wireless Spectrum Resources, Inc.
Borgeson, Tom R.

Company (Continued)

MidCom, Inc.
Broadcast Photography Services, Inc.
Universal Satellite Communications, Inc.
Casper, John
Hawaiian Telcom
Qwest Corporation
ALASCOM, Inc
International Communications Group dba Corban Networks
Norlight Telecommunications, Inc.
Southwestern Bell Telephone Company
AMCI Acquisition, LP
Radiofone, Inc. dba Alltel
Regulus Media Services
Kentucky RSA 3 Cellular General Partnership
Kentucky RSA 4 Cellular General Partnership
Plateau Telecommunications, Inc.
CNG Communications, Inc.
Remote Facilities Consulting Services
Winged Vision Inc.
RCC Minnesota, Inc.
Goodyear Tire & Rubber Company
New England Digital Distribution, Inc.
Navajo Communications Company, Inc.
VYVX, Inc.
CenturyTel of the Southwest, Inc.
Production & Satellite Services, Inc.
Total RF Marketing, Inc.
DCI II, Inc.
Western Technical Services (a Division of Focus Communications, Inc.)
Carolina Telephone and Telegraph Company, LLC
Wexler Video, Inc.
Broadcast Sports Enterprises, Inc.
3G Wireless, LLC
Information & Display Systems, Inc.
Cohen, Elena
Speedshotz, Inc.
On Scene Video Production
Plum TV, LLC
Public Television Communications Center, Troy Public Broadcasting
Northwest Suburbs Community Access Corp. dba Northwest Community Television
Aerial Video Systems
RF Film, Inc.
Citywide News Network, Inc.
Heiden, Mr. William
Wolfe Air Aviation
RF Technology, LLC
United Telephone Southeast, LLC

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.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 05/22/2008
Job Number: 080523COMSJC03

Administrative Information

Status ENGINEER PROPOSAL
Call Sign KB34
Licensee Code VIZSAT
Licensee Name Vizada Satellite, Inc. - Santa Paula

Site Information SANTA PAULA, CALIFORNIA

Venue Name
Latitude (NAD 83) 34° 24' 5.0" N
Longitude (NAD 83) 119° 4' 29.4" W
Climate Zone A
Rain Zone 4
Ground Elevation (AMSL) 228.6 m / 750.0 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 100° W to 150° West Longitude
Azimuth Range 148.5° to 226.7°
Corresponding Elevation Angles 45.1° / 38.2°
Antenna Centerline (AGL) 6.1 m / 20.0 ft

Antenna Information

	Receive	Transmit
Manufacturer	NEC	NEC
Model	10.4 Meter	10.4 Meter
Gain / Diameter	50.4 dBi / 10.4 m	53.5 dBi / 10.4 m
3-dB / 15-dB Beamwidth	1.00° / 1.60°	0.80° / 1.20°

2K50G1D to 100KG1X

Max Available RF Power	(dBW/4 kHz)	12.2	-6.7
	(dBW/MHz)	10.2	7.3

Maximum EIRP	(dBW/4 kHz)	65.7	46.8
	(dBW/MHz)	65.7	60.8

Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
	Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%

Frequency Information

	Receive 3.0 GHz	Transmit 6.0 GHz
Emission / Frequency Range (MHz)	2K50G1D - 100KG1X / 3600.0 - 3629.0	2K50G1D - 100KG1X / 6425.0 - 6454.0

Max Great Circle Coordination Distance	289.4 km / 179.8 mi	230.9 km / 143.5 mi
Precipitation Scatter Contour Radius	357.8 km / 216.6 mi	345.8 km / 214.9 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
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Coordination Values

SANTA PAULA, CA

Licensee Name Vizada Satellite, Inc. - Santa Paula
Latitude (NAD 83) 34° 24' 5.0" N
Longitude (NAD 83) 119° 4' 29.4" W
Ground Elevation (AMSL) 228.6 m / 750.0 ft
Antenna Centerline (AGL) 6.1 m / 20.0 ft
Antenna Model NEC 10.4 Meter
Antenna Mode Receive 3.0 GHz Transmit 6.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20% -154.0 dBW/4 kHz 20%
Short Term -146.0 dBW/MHz 0.01% -131.0 dBW/4 kHz 0.0025%
Max Available RF Power 12.2 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 3.0 GHz		Transmit 6.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	7.78	126.26	-10.00	106.10	-10.00	100.00
5	8.48	130.19	-10.00	100.00	-10.00	100.00
10	9.74	127.66	-10.00	100.00	-10.00	100.00
15	10.18	124.38	-10.00	100.00	-10.00	100.00
20	11.11	121.09	-10.00	100.00	-10.00	100.00
25	11.49	117.39	-10.00	100.00	-10.00	100.00
30	12.12	113.62	-10.00	100.00	-10.00	100.00
35	12.66	109.69	-10.00	100.00	-10.00	100.00
40	13.10	105.64	-10.00	100.00	-10.00	100.00
45	12.41	101.36	-10.00	100.00	-10.00	100.00
50	11.69	97.11	-10.00	100.00	-10.00	100.00
55	9.63	92.88	-10.00	100.00	-10.00	100.00
60	8.54	88.82	-10.00	100.00	-10.00	100.00
65	8.47	84.82	-10.00	100.00	-10.00	100.00
70	7.69	80.92	-10.00	107.00	-10.00	100.00
75	7.91	76.95	-10.00	104.80	-10.00	100.00
80	7.87	73.06	-10.00	105.10	-10.00	100.00
85	7.59	69.30	-10.00	108.10	-10.00	100.00
90	7.01	65.75	-10.00	114.30	-10.00	100.00
95	6.57	62.30	-10.00	119.00	-10.00	100.00
100	6.29	58.94	-10.00	122.00	-10.00	100.00
105	5.38	56.12	-10.00	131.10	-10.00	100.00
110	6.19	52.52	-10.00	123.20	-10.00	100.00
115	5.05	50.37	-10.00	134.40	-10.00	100.00
120	3.42	49.01	-10.00	160.10	-10.00	117.50
125	2.34	47.71	-9.96	186.90	-9.96	136.20
130	2.29	45.94	-9.56	190.10	-9.56	138.80
135	1.98	44.81	-9.28	198.40	-9.28	146.60
140	1.28	44.49	-9.21	215.50	-9.21	169.20
145	0.32	44.91	-9.31	275.00	-9.31	219.30
150	0.00	45.14	-9.36	289.40	-9.36	230.90
155	0.00	45.48	-9.45	288.80	-9.45	230.50
160	0.00	46.24	-9.63	287.70	-9.63	229.70
165	0.00	47.41	-9.90	285.90	-9.90	228.50
170	0.00	48.80	-10.00	285.30	-10.00	228.00
175	0.28	49.44	-10.00	275.00	-10.00	219.70
180	1.27	48.75	-10.00	212.10	-10.00	164.30

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Coordination Values

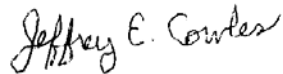
SANTA PAULA, CA

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Antenna Mode	Receive 3.0 GHz		Transmit 6.0 GHz	
Interference Objectives: Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power			12.2 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 3.0 GHz		Transmit 6.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
185	2.29	47.46	-9.91	188.30	-9.91	137.40
190	3.38	45.60	-9.48	163.70	-9.48	120.10
195	4.65	43.14	-8.87	143.10	-8.87	102.50
200	3.47	42.45	-8.70	165.50	-8.70	121.30
205	4.30	39.56	-7.93	152.90	-7.93	110.80
210	2.69	38.79	-7.72	190.00	-7.72	138.00
215	5.54	34.50	-6.45	143.10	-6.45	101.80
220	6.97	31.90	-5.59	132.50	-5.59	100.00
225	5.72	32.55	-5.82	144.00	-5.82	102.50
230	5.15	33.23	-6.04	149.20	-6.04	107.10
235	6.05	33.13	-6.01	139.70	-6.01	100.00
240	5.64	34.94	-6.58	141.40	-6.58	100.30
245	6.75	35.95	-6.89	129.50	-6.89	100.00
250	5.75	39.23	-7.84	134.90	-7.84	100.00
255	5.92	41.93	-8.56	131.60	-8.56	100.00
260	6.28	44.85	-9.29	124.90	-9.29	100.00
265	7.62	47.54	-9.93	108.10	-9.93	100.00
270	6.99	51.54	-10.00	114.50	-10.00	100.00
275	5.63	55.93	-10.00	128.70	-10.00	100.00
280	5.01	60.02	-10.00	134.80	-10.00	100.00
285	5.29	63.85	-10.00	132.00	-10.00	100.00
290	5.50	67.81	-10.00	130.00	-10.00	100.00
295	6.17	71.76	-10.00	123.30	-10.00	100.00
300	6.14	75.93	-10.00	123.60	-10.00	100.00
305	5.61	80.19	-10.00	128.90	-10.00	100.00
310	6.20	84.34	-10.00	123.00	-10.00	100.00
315	5.98	88.58	-10.00	125.40	-10.00	100.00
320	5.96	92.81	-10.00	125.60	-10.00	100.00
325	5.32	96.98	-10.00	131.80	-10.00	100.00
330	5.34	101.16	-10.00	131.60	-10.00	100.00
335	6.26	105.47	-10.00	122.40	-10.00	100.00
340	7.70	109.94	-10.00	106.90	-10.00	100.00
345	8.02	114.21	-10.00	103.60	-10.00	100.00
350	8.09	118.37	-10.00	103.00	-10.00	100.00
355	8.30	122.51	-10.00	101.10	-10.00	100.00

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Jeffrey E. Cowles
Principal Frequency Planner
COMSEARCH
19700 Janelia Farm Blvd.
Ashburn, Va. 20147

DATED: June 6, 2008