

EXHIBIT B

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for

Intelsat License LLC
Napa, California
(Call Sign: E950307)

Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
January 20, 2011

TABLE OF CONTENTS

1. CONCLUSIONS	3
2. SUMMARY OF RESULTS	4
3. SUPPLEMENTAL SHOWING	5
4. EARTH STATION COORDINATION DATA.....	7
5. CERTIFICATION.....	11

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 transmit-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.

Coordination data for this earth station was sent to the below listed carriers with a letter dated December 19, 2010.

Company

AT&T California
AT&T Mobility Wireless Operations Hldgs
Alameda County of California
American Tower, LLC
CBS Broadcasting Inc
CONTRA COSTA COUNTY COMMUNICATIONS DEPT.
CRYSTAL SMR INC.
CSC
California, State of
City & County of San Francisco PUC
County of San Mateo
EAST BAY MUNICIPAL UTILITY DISTRICT
Edge Wireless LLC- Northern California
GTE Mobilnet of California LTD Partnersh
ICG Telecom Group, Inc. - Debtor in poss
International Communications Group, Inc.
KQED INC
LB Tower Company LLC
M.U.T. Licensing, LLC
MCI Communications Services Inc.
MENDOCINO COUNTY OF
METROPOLITAN AREA NETWORKS, INC.
MODESTO IRRIGATION DISTRICT
Marin County of California
Napa, County of
New Cingular Wireless PCS LLC - N CAL
Open Range Communications
Pacific Gas and Electric Company
ROMAN CATHOLIC COMMUNICATIONS CORP
SAN FRANCISCO CITY & COUNTY CALIFORNIA
SAN JOSE CITY OF (ECOMM)
Sacramento County
Sacramento Municipal Utility District
Sacramento Valley Limited Partnership
San Joaquin County

Company (Continued)

Santa Clara, County of
Solano County Communications Division
Sonoma County, California
Union Pacific Railroad Company
Western Technical Services
Willits Online LLC
Yolo Emergency Communications Agency
Yolo, County of

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: 01/17/2011
Job Number: 101219COMSJC01

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign: E950307
Licensee Code: PANAS
Licensee Name: Intelsat License LLC

Site Information NAPA, CALIFORNIA

Venue Name
Latitude (NAD 83): 38° 14' 43.7" N
Longitude (NAD 83): 122° 16' 50.9" W
Climate Zone: B
Rain Zone: 3
Ground Elevation (AMSL): 7.62 m / 25.0 ft

Link Information

Satellite Type: Geostationary
Mode: TR - Transmit-Receive
Modulation: Analog and Digital
Satellite Arc: 58° W to 194° West Longitude
Azimuth Range: 106.6° to 258.4°
Corresponding Elevation Angles: 11.4° / 5.6°
Antenna Centerline (AGL): 7.62 m / 25.0 ft

Antenna Information

	Receive	Transmit
Manufacturer	Vertex Corp.	Vertex Corp.
Model	15.2 KPC	15.2 KPC
Gain / Diameter	54.9 dBi / 15.2 m	58.4 dBi / 15.2 m
3-dB / 15-dB Beamwidth	0.34° / 0.70°	0.22° / 0.44°

		950KFXD	72MOG7D	1M00G7D	
Max Available RF Power	(dBW/4 kHz)	-5.2	-28.0	-18.5	
	(dBW/MHz)	18.6	-4.0	5.5	
Maximum EIRP	(dBW/4 kHz)	53.2	30.4	39.9	
	(dBW/MHz)	77.0	54.4	63.9	
	(dBW)	77.0	73.0	63.9	
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 4.0 GHz	Transmit 6.1 GHz
Emission / Frequency Range (MHz)	200KFXD / 3947.5	950KFXD / 6173.7
	200KFXD / 3948.0	950KFXD / 6176.3
	200KFXD / 3952.0	1M00G7D / 5850.0 – 5925.0
	200KFXD / 3952.5	72MOG7D / 5850.0 – 5925.0
	60MOG7D / 3625.0 – 3700.0	

Max Great Circle Coordination Distance	783.4 km / 486.7 mi	411.7 km / 255.8 mi
Precipitation Scatter Contour Radius	426.1 km / 264.8 mi	100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

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

Coordination Values

NAPA, CA

Licensee Name	Intelsat License LLC		
Latitude (NAD 83)	38° 14' 43.7" N		
Longitude (NAD 83)	122° 16' 50.9" W		
Ground Elevation (AMSL)	7.62 m / 25.0 ft		
Antenna Centerline (AGL)	7.62 m / 25.0 ft		
Antenna Model	Vertex Corporation 15.2 KPC		
Antenna Mode	Receive 4.0 GHz		Transmit 6.1 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			-5.2 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	101.50	-10.00	412.20	-10.00	186.59
5	0.00	101.37	-10.00	412.20	-10.00	186.59
10	0.89	96.49	-10.00	265.31	-10.00	119.35
15	0.82	91.58	-10.00	275.46	-10.00	123.51
20	0.47	86.67	-10.00	330.42	-10.00	147.65
25	0.35	81.76	-10.00	361.42	-10.00	162.69
30	0.85	76.84	-10.00	270.63	-10.00	121.52
35	2.10	71.86	-10.00	195.78	-10.00	100.00
40	1.45	66.98	-10.00	228.14	-10.00	105.59
45	2.61	61.97	-10.00	177.19	-10.00	100.00
50	2.86	57.02	-10.00	169.19	-10.00	100.00
55	3.14	52.08	-10.00	160.95	-10.00	100.00
60	3.65	47.10	-9.83	149.00	-9.83	100.00
65	4.37	42.09	-8.60	142.60	-8.60	100.00
70	4.70	37.13	-7.24	145.11	-7.24	100.00
75	4.35	32.30	-5.73	155.20	-5.73	100.00
80	4.14	27.51	-3.99	166.08	-3.99	100.00
85	4.11	22.75	-1.92	177.49	-1.92	100.00
90	3.72	18.25	0.47	201.62	0.47	100.00
95	3.07	14.25	3.15	242.84	3.15	109.24
100	3.51	10.27	6.71	251.06	6.71	112.40
105	2.99	8.56	8.68	316.07	8.68	141.88
110	2.73	9.31	7.78	294.32	7.78	127.70
115	3.04	11.82	5.18	258.75	5.18	115.39
120	3.76	14.99	2.60	213.43	2.60	100.00
125	4.27	18.20	0.50	188.95	0.50	100.00
130	4.49	21.47	-1.30	176.23	-1.30	100.00
135	4.14	25.01	-2.95	171.54	-2.95	100.00
140	3.94	28.27	-4.28	167.96	-4.28	100.00
145	2.78	32.08	-5.65	196.22	-5.65	100.00
150	4.22	33.57	-6.15	154.61	-6.15	100.00
155	4.22	35.88	-6.87	151.28	-6.87	100.00
160	3.96	38.09	-7.52	151.64	-7.52	100.00
165	3.58	40.02	-8.06	158.74	-8.06	100.00
170	3.19	41.55	-8.46	167.00	-8.46	100.00
175	2.85	42.60	-8.74	176.04	-8.74	100.00
180	2.53	43.17	-8.88	186.53	-8.88	100.00
185	2.22	43.22	-8.89	197.72	-8.89	100.00

COMSEARCH

Earth Station Data Sheet

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

Coordination Values

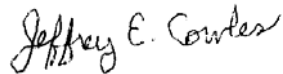
NAPA, CA

Licensee Name: Intelsat License LLC
Latitude (NAD 83): 38° 14' 43.7" N
Longitude (NAD 83): 122° 16' 50.9" W
Ground Elevation (AMSL): 7.62 m / 25.0 ft
Antenna Centerline (AGL): 7.62 m / 25.0 ft
Antenna Model: Vertex Corporation 15.2 KPC
Antenna Mode: Receive 4.0 GHz
Interference Objectives: Long Term: -156.0 dBW/MHz 20%
Short Term: -146.0 dBW/MHz 0.01%
Transmit 6.1 GHz: -154.0 dBW/4 kHz 20%
-131.0 dBW/4 kHz 0.0025%
Max Available RF Power: -5.2 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	1.90	42.80	-8.79	212.22	-8.79	100.00
195	1.53	41.93	-8.56	233.25	-8.56	107.39
200	0.92	40.79	-8.26	275.23	-8.26	122.89
205	0.52	39.03	-7.78	340.35	-7.78	151.18
210	0.00	36.98	-7.20	448.50	-7.20	202.49
215	0.00	34.21	-6.35	460.06	-6.35	207.39
220	0.00	31.20	-5.36	473.50	-5.36	213.30
225	0.00	28.00	-4.18	490.61	-4.18	220.42
230	0.00	24.63	-2.79	511.67	-2.79	229.08
235	0.00	21.13	-1.12	538.04	-1.12	239.79
240	0.00	17.51	0.92	571.97	0.92	253.36
245	0.22	13.67	3.60	608.53	3.60	265.87
250	0.26	9.89	7.12	652.78	7.12	283.37
255	0.21	6.40	11.85	783.40	11.85	341.48
260	0.31	5.52	13.46	755.53	13.46	411.69
265	0.45	8.34	8.97	595.42	8.97	257.42
270	0.49	12.63	4.47	499.83	4.47	219.97
275	0.50	17.31	1.04	448.83	1.04	198.25
280	0.46	22.14	-1.63	425.93	-1.63	188.57
285	0.51	27.01	-3.79	383.25	-3.79	169.92
290	0.87	31.88	-5.59	305.55	-5.59	134.85
295	0.97	36.81	-7.15	277.73	-7.15	123.59
300	0.81	41.79	-8.53	288.46	-8.53	128.51
305	1.19	46.72	-9.74	244.67	-9.74	112.40
310	0.80	51.72	-10.00	277.19	-10.00	124.23
315	0.89	56.69	-10.00	266.50	-10.00	119.83
320	0.99	61.66	-10.00	255.51	-10.00	116.76
325	1.11	66.64	-10.00	246.99	-10.00	113.40
330	0.84	71.63	-10.00	272.83	-10.00	122.42
335	0.00	76.63	-10.00	412.20	-10.00	186.59
340	0.00	81.60	-10.00	412.20	-10.00	186.59
345	0.00	86.58	-10.00	412.20	-10.00	186.59
350	0.00	91.55	-10.00	412.20	-10.00	186.59
355	0.00	96.53	-10.00	412.20	-10.00	186.59

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
Engineer III, Telecommunications
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, Va. 20147

DATED: January 20, 2011