

EXHIBIT A

FREQUENCY COORDINATION AND INTERFERENCE
ANALYSIS REPORT

Prepared for

PanAmSat Licensee Corp.
Castle Rock, Colorado
(Call Sign: E030232)

Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
June 11, 2010

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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 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 an Information-Only letter dated June 11, 2010.

Company

AT&T COMMUNICATIONS OF MOUNTAIN STATES
Abraham Divestiture Company LLC
Adcom 911
BNSF Railway Company
Black Hills Corporation
Boulder, County of
CBS Communications Services
CBS Television Stations
COLORADO INTERSTATE GAS COMPANY
Cellular Inc. Network Corporation
City of Colorado Springs
Colorado Springs Utilities
ENTRAVISION HOLDINGS, LLC
FONES WEST DIGITAL SYSTEMS INC.
Gray Television Licensee, Inc. (KKTU)
Great Western Communications, LLC
Intermountain Rural Electric Association
International Communications Group, Inc.
LB Tower Company LLC
METROPOLITAN AREA NETWORKS, INC.
Multimedia Holdings Corporation
N.E. Colorado Wireless Technologies, Inc
New Cingular Wireless PCS LLC -Colorado
Pueblo, County of
QWEST CORPORATION
Smoky Hill Cellular of Colorado LP
Sprint Communications Co., LP
Sprint Spectrum LP DBA Sprint PCS
State of Colorado
Stelera Wireless, LLC
Tri State Generation & Transmission
UNITED POWER
Verizon Wireless - Mountain Region
WWC Holding Co., Inc

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the 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: 06/11/2010
Job Number: 100611COMSJC01

Administrative Information

Status ENGINEER PROPOSAL
Call Sign E030232
Licensee Code PANAS
Licensee Name PanAmSat Licensee Corp

Site Information CASTLE ROCK, COLORADO

Venue Name
Latitude (NAD 83) 39° 16' 38.0" N
Longitude (NAD 83) 104° 48' 36.0" W
Climate Zone A
Rain Zone 2
Ground Elevation (AMSL) 2096.0 m / 6876.6 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 43° W to 139° West Longitude
Azimuth Range 108.7° to 227.0°
Corresponding Elevation Angles 13.0° / 32.5°
Antenna Centerline (AGL) 3.05 m / 10.0 ft

Antenna Information

Manufacturer Vertex
Model 4.6 KPC
Gain / Diameter 43.8 dBi / 4.6 m
3-dB / 15-dB Beamwidth 1.20° / 2.40°

Receive

Vertex
4.6 KPC
43.8 dBi / 4.6 m
1.20° / 2.40°

Transmit

Vertex
4.6 KPC
47.0 dBi / 4.6 m
0.80° / 1.40°

Max Available RF Power (dBW/4 kHz) -6.5
(dBW/MHz) 17.5
Maximum EIRP (dBW/4 kHz) 40.5
(dBW/MHz) 64.5

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

Emission / Frequency Range (MHz)

Receive 4.0 GHz

9M00G7W / 3700.0 - 4200.0
18M0G7W / 3700.0 - 4200.0
36M0G7W / 3700.0 - 4200.0

Transmit 6.1 GHz

9M00G7W / 5925.0 - 6425.0
18M0G7W / 5925.0 - 6425.0
36M0G7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance 388.5 km / 241.4 mi 208.8 km / 129.7 mi
Precipitation Scatter Contour Radius 526.5 km / 327.1 mi 100.0 km / 62.1 mi

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Coordination Values

CASTLE ROCK, CO

Licensee Name PanAmSat Licensee Corp
Latitude (NAD 83) 39° 16' 38.0" N
Longitude (NAD 83) 104° 48' 36.0" W
Ground Elevation (AMSL) 2096.0 m / 6876.6 ft
Antenna Centerline (AGL) 3.05 m / 10.0 ft
Antenna Model Vertex 4.6 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 -6.5 (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	7.25	108.65	-10.00	111.64	-10.00	100.00
5	7.03	103.67	-10.00	113.98	-10.00	100.00
10	6.35	98.69	-10.00	121.36	-10.00	100.00
15	5.76	93.72	-10.00	127.48	-10.00	100.00
20	4.96	88.76	-10.00	134.10	-10.00	100.00
25	4.97	83.81	-10.00	134.04	-10.00	100.00
30	4.27	78.88	-10.00	143.76	-10.00	100.00
35	4.14	73.94	-10.00	145.68	-10.00	100.00
40	3.90	69.02	-10.00	149.93	-10.00	100.00
45	3.84	64.10	-10.00	151.08	-10.00	100.00
50	3.72	59.20	-10.00	153.59	-10.00	100.00
55	3.41	54.33	-10.00	160.33	-10.00	100.00
60	3.04	49.49	-10.00	170.54	-10.00	100.00
65	2.02	44.83	-9.29	197.40	-9.29	100.00
70	1.10	40.25	-8.12	227.00	-8.12	109.44
75	0.77	35.64	-6.80	251.57	-6.80	126.12
80	0.00	31.31	-5.39	316.91	-5.39	173.80
85	0.00	26.88	-3.73	328.77	-3.73	180.22
90	0.00	22.66	-1.88	342.37	-1.88	187.37
95	0.00	18.82	0.14	357.66	0.14	195.12
100	0.00	15.60	2.17	373.48	2.17	202.88
105	0.00	13.50	3.75	386.07	3.75	207.28
110	0.00	13.03	4.12	388.50	4.12	208.76
115	0.21	14.20	3.20	380.83	3.20	204.57
120	0.31	16.89	1.31	352.82	1.31	189.14
125	0.00	20.58	-0.84	350.23	-0.84	191.39
130	0.45	23.70	-2.37	305.34	-2.37	157.26
135	0.37	27.06	-3.81	305.67	-3.81	160.32
140	0.38	30.17	-4.99	295.42	-4.99	154.27
145	0.43	33.06	-5.98	282.85	-5.98	146.18
150	0.69	35.53	-6.77	256.73	-6.77	129.75
155	0.76	37.86	-7.45	247.99	-7.45	124.53
160	0.84	39.83	-8.00	239.80	-8.00	119.23
165	1.02	41.32	-8.40	227.92	-8.40	110.57
170	0.85	42.69	-8.76	235.26	-8.76	116.80
175	0.87	43.42	-8.94	233.16	-8.94	115.42
180	0.72	43.81	-9.04	241.26	-9.04	121.73
185	0.92	43.36	-8.93	229.99	-8.93	112.92

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Coordination Values

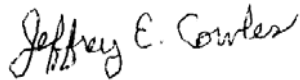
CASTLE ROCK, CO

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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			-6.5 (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	1.31	42.25	-8.65	217.59	-8.65	102.41
195	1.21	41.14	-8.36	222.08	-8.36	105.77
200	1.40	39.34	-7.87	218.84	-7.87	102.41
205	2.01	36.79	-7.14	205.06	-7.14	100.00
210	2.31	34.24	-6.36	204.66	-6.36	100.00
215	2.43	32.16	-5.68	205.34	-5.68	100.00
220	2.74	30.49	-5.10	201.63	-5.10	100.00
225	2.79	29.76	-4.84	201.77	-4.84	100.00
230	2.86	29.76	-4.84	200.33	-4.84	100.00
235	2.97	30.49	-5.10	196.78	-5.10	100.00
240	3.10	31.89	-5.59	191.52	-5.59	100.00
245	3.16	33.98	-6.28	186.66	-6.28	100.00
250	3.27	36.54	-7.07	180.36	-7.07	100.00
255	3.49	39.43	-7.90	170.95	-7.90	100.00
260	4.20	42.38	-8.68	150.90	-8.68	100.00
265	5.52	45.37	-9.42	132.08	-9.42	100.00
270	5.97	49.11	-10.00	125.51	-10.00	100.00
275	5.98	53.20	-10.00	125.39	-10.00	100.00
280	5.67	57.50	-10.00	128.34	-10.00	100.00
285	5.67	61.76	-10.00	128.34	-10.00	100.00
290	6.15	65.98	-10.00	123.60	-10.00	100.00
295	5.83	70.42	-10.00	126.81	-10.00	100.00
300	6.30	74.78	-10.00	121.96	-10.00	100.00
305	6.21	79.24	-10.00	122.89	-10.00	100.00
310	5.68	83.74	-10.00	128.26	-10.00	100.00
315	5.55	88.20	-10.00	129.54	-10.00	100.00
320	5.45	92.66	-10.00	130.45	-10.00	100.00
325	5.70	97.12	-10.00	128.07	-10.00	100.00
330	6.51	101.65	-10.00	119.60	-10.00	100.00
335	7.69	106.28	-10.00	107.08	-10.00	100.00
340	7.68	110.76	-10.00	107.16	-10.00	100.00
345	7.79	115.23	-10.00	105.95	-10.00	100.00
350	7.53	118.60	-10.00	108.71	-10.00	100.00
355	7.53	113.63	-10.00	108.68	-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.

A handwritten signature in black ink that reads "Jeffrey E. Cowles". The signature is written in a cursive style. To the right of the signature is a vertical red line.

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

DATED: June 11, 2010