

Exhibit A

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for

**Mark C. Wilson
Odessa, Florida**

Satellite Earth Station

Prepared By:
COMSEARCH

19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
August 26, 2012

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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-receive earth station.

Company

Duke Energy Business Services, LLC
Harris Corporation - Orlando, FL
Pasco County Information Technology
Verizon Wireless Personal Comm., LP (S FL)

No other 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 and sent to the below listed carriers with a letter dated July 14, 2012.

Company

Alltel Communications LLC - S Florida
Alltel Communications, LLC - Arkansas
Board of Sumter County Commissioners
Daystar Communications
Florida Power Corporation
Florida Rural Broadband Alliance, LLC
Harris Corporation - Orlando, FL
Hernando County Board of Co Commissioner
Hillsborough County Sheriff's Office
Hillsborough County Tax Collector
Lake, County of
New Cingular Wireless PCS LLC - N FL
North Florida Broadband Authority
PINELLAS COUNTY
POLK, COUNTY OF
Pasco County Information Technology
Progress Energy Service Company
South Florida Water Management District
Sumter Electric Cooperative, Inc.
T-MOBILE USA, INC.
Tampa Electric Company
Verizon Wireless Personal Comm, LP(S FL)
Villages Public Saftey

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: 08/26/2012
Job Number: 120714COMSJC01

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code MARWIL
Licensee Name Mark C. Wilson

Site Information ODESSA, FLORIDA

Venue Name
Latitude (NAD 83) 28° 11' 47.3" N
Longitude (NAD 83) 82° 37' 35.3" W
Climate Zone A
Rain Zone 1
Ground Elevation (AMSL) 11.28 m / 37.0 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 61° W to 137° West Longitude
Azimuth Range 140.0° to 251.3°
Corresponding Elevation Angles 49.4° / 22.9°
Antenna Centerline (AGL) 3.05 m / 10.0 ft

Antenna Information

Receive
Manufacturer Prodelin
Model 1383
Gain / Diameter 41.8 dBi / 3.8 m
3-dB / 15-dB Beamwidth 1.40° / 2.60°

Transmit

Prodelin
1383
46.2 dBi / 3.8 m
0.85° / 1.60°

Max Available RF Power (dBW/4 kHz)
(dBW/MHz)

-14.2
9.8

Maximum EIRP (dBW/4 kHz)
(dBW/MHz)
(dBW)

32.0
56.0
61.0

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

-154.0 dBW/4 kHz 20%
-131.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 4.0 GHz
3M20G7W / 3700.0 - 4200.0

Transmit 6.1 GHz
3M20G7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance
Precipitation Scatter Contour Radius

341.5 km / 212.2 mi
572.9 km / 356.0 mi

155.8 km / 96.8 mi
100.0 km / 62.1 mi

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Coordination Values

ODESSA, FL

Licensee Name Mark C. Wilson
Latitude (NAD 83) 28° 11' 47.3" N
Longitude (NAD 83) 82° 37' 35.3" W
Ground Elevation (AMSL) 11.28 m / 37.0 ft
Antenna Centerline (AGL) 3.05 m / 10.0 ft
Antenna Model Prodelin 1383
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 -14.2 (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	107.19	-10.00	285.28	-10.00	132.31
5	0.00	111.74	-10.00	285.28	-10.00	132.31
10	0.00	114.75	-10.00	285.28	-10.00	132.31
15	0.00	111.94	-10.00	285.28	-10.00	132.31
20	0.00	109.01	-10.00	285.28	-10.00	132.31
25	0.00	105.98	-10.00	285.28	-10.00	132.31
30	0.00	102.87	-10.00	285.28	-10.00	132.31
35	0.00	99.71	-10.00	285.28	-10.00	132.31
40	0.00	96.50	-10.00	285.28	-10.00	132.31
45	0.00	93.26	-10.00	285.28	-10.00	132.31
50	0.00	90.00	-10.00	285.28	-10.00	132.31
55	0.00	86.75	-10.00	285.28	-10.00	132.31
60	0.00	83.51	-10.00	285.28	-10.00	132.31
65	0.00	80.30	-10.00	285.28	-10.00	132.31
70	0.00	77.13	-10.00	285.28	-10.00	132.31
75	0.00	74.03	-10.00	285.28	-10.00	132.31
80	0.00	71.00	-10.00	285.28	-10.00	132.31
85	0.00	68.07	-10.00	285.28	-10.00	132.31
90	0.00	65.25	-10.00	285.28	-10.00	132.31
95	0.00	62.58	-10.00	285.28	-10.00	132.31
100	0.00	60.07	-10.00	285.28	-10.00	132.31
105	0.00	57.76	-10.00	285.28	-10.00	132.31
110	0.00	55.67	-10.00	285.28	-10.00	132.31
115	0.00	53.83	-10.00	285.28	-10.00	132.31
120	0.00	52.27	-10.00	285.28	-10.00	132.31
125	0.00	51.02	-10.00	285.28	-10.00	132.31
130	0.00	50.11	-10.00	285.28	-10.00	132.31
135	0.00	49.55	-10.00	285.28	-10.00	132.31
140	0.00	49.36	-10.00	285.28	-10.00	132.31
145	0.00	49.55	-10.00	285.28	-10.00	132.31
150	0.00	50.11	-10.00	285.28	-10.00	132.31
155	0.00	51.02	-10.00	285.28	-10.00	132.31
160	0.00	52.27	-10.00	285.28	-10.00	132.31
165	0.00	53.82	-10.00	285.28	-10.00	132.31
170	0.00	55.55	-10.00	285.28	-10.00	132.31
175	0.00	56.70	-10.00	285.28	-10.00	132.31
180	0.00	57.09	-10.00	285.28	-10.00	132.31
185	0.00	56.70	-10.00	285.28	-10.00	132.31

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Max Available RF Power -14.2 (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	0.00	55.55	-10.00	285.28	-10.00	132.31
195	0.00	53.72	-10.00	285.28	-10.00	132.31
200	0.00	51.33	-10.00	285.28	-10.00	132.31
205	0.00	48.47	-10.00	285.28	-10.00	132.31
210	0.00	45.26	-9.39	289.17	-9.39	133.94
215	0.00	41.77	-8.52	294.86	-8.52	135.08
220	0.00	38.06	-7.51	301.60	-7.51	137.96
225	0.00	34.31	-6.39	309.32	-6.39	141.31
230	0.00	30.86	-5.23	318.02	-5.23	144.90
235	0.00	27.83	-4.11	326.03	-4.11	148.55
240	0.00	25.38	-3.11	333.30	-3.11	151.93
245	0.00	23.68	-2.36	338.82	-2.36	154.55
250	0.00	22.91	-2.00	341.49	-2.00	155.82
255	0.00	23.16	-2.12	340.62	-2.12	155.40
260	0.00	24.40	-2.68	336.44	-2.68	153.41
265	0.00	26.48	-3.57	329.93	-3.57	150.35
270	0.00	29.23	-4.65	322.20	-4.65	146.79
275	0.00	32.48	-5.79	314.09	-5.79	143.15
280	0.00	36.09	-6.94	305.52	-6.94	139.65
285	0.00	39.97	-8.04	298.04	-8.04	136.43
290	0.00	44.03	-9.09	291.11	-9.09	133.50
295	0.00	48.24	-10.00	285.28	-10.00	132.31
300	0.00	52.56	-10.00	285.28	-10.00	132.31
305	0.00	56.95	-10.00	285.28	-10.00	132.31
310	0.00	61.41	-10.00	285.28	-10.00	132.31
315	0.00	65.92	-10.00	285.28	-10.00	132.31
320	0.00	70.46	-10.00	285.28	-10.00	132.31
325	0.00	75.02	-10.00	285.28	-10.00	132.31
330	0.00	79.61	-10.00	285.28	-10.00	132.31
335	0.00	84.21	-10.00	285.28	-10.00	132.31
340	0.00	88.81	-10.00	285.28	-10.00	132.31
345	0.00	93.42	-10.00	285.28	-10.00	132.31
350	0.00	98.02	-10.00	285.28	-10.00	132.31
355	0.00	102.61	-10.00	285.28	-10.00	132.31

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: August 26, 2012