

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
Bright House Networks, LLC
BROOKSVILLE, FL
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
August 10, 2009

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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

There were no great circle interference cases identified during the interference study of the proposed earth station.

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 carriers with a letter dated 07/27/2009.

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: 08/10/2009
Job Number: 090727COMSTC04

Administrative Information

Licensee Name Bright House Networks, LLC

Site Information**BROOKSVILLE, FL**

Latitude (NAD 83) 28° 32' 6.0" N
Longitude (NAD 83) 82° 27' 59.0" W
Climate Zone B
Rain Zone 1
Ground Elevation (AMSL) 24.2 m / 79.4 ft

Link Information

Satellite Type Geostationary
Mode RO - Receive-Only
Modulation Analog and Digital
Satellite Arc 60°W to 143° West Longitude
Azimuth Range 139.1° to 254.9°
Corresponding Elevation Angles 48.5° / 17.3°
Antenna Centerline (AGL) 2.44 m / 8.0 ft

Antenna Information**Receive - S40452**

Manufacturer SCIENTIFIC-ATLANTA, INC
Model 8345 4.5 METER
Gain / Diameter 43.3 dBi / 4.5 m
3-dB / 15-dB Beamwidth 1.20° / 2.50°

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

Frequency Information**Receive 4.0 GHz**

Emission / Frequency Range (MHz) 36M0G7W / 3700.0 - 4200.0
36M0F3F / 3700.0 - 4200.0

Max Great Circle Coordination Distance 435.7 km / 270.7 mi
Precipitation Scatter Contour Radius 589.1 km / 366.0 mi

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Coordination Values

BROOKSVILLE, FL

Licensee Name Bright House Networks, LLC
Latitude (NAD 83) 28° 32' 6.0" N
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Ground Elevation (AMSL) 24.2 m / 79.4 ft
Antenna Centerline (AGL) 2.44 m / 8.0 ft
Antenna Model SCIENTIFIC-ATLANTA, INC 8345 4.5 METER
Antenna Mode Receive 4.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.29	104.43	-9.70	384.73
5	0.28	109.19	-10.54	379.26
10	0.38	113.95	-13.86	318.38
15	0.46	112.02	-12.31	309.71
20	0.61	109.04	-10.51	299.50
25	0.62	105.90	-9.88	303.51
30	0.72	102.71	-9.70	290.80
35	0.78	99.44	-9.70	283.34
40	0.61	96.10	-9.70	307.69
45	0.63	92.76	-9.70	303.88
50	0.63	89.41	-9.70	303.79
55	0.53	86.07	-9.70	320.43
60	0.46	82.75	-9.70	335.28
65	0.32	79.49	-9.70	376.31
70	0.33	76.26	-9.70	370.80
75	0.31	73.09	-9.70	378.26
80	0.31	70.01	-9.70	379.20
85	0.28	67.03	-9.70	389.06
90	0.24	64.19	-9.70	403.04
95	0.26	61.45	-9.70	393.81
100	0.28	58.89	-9.70	387.38
105	0.38	56.47	-9.70	355.55
110	0.28	54.43	-9.70	389.15
115	0.23	52.62	-9.70	406.81
120	0.20	51.08	-9.70	415.16
125	0.00	50.04	-9.70	415.94
130	0.00	49.17	-9.70	415.94
135	0.00	48.66	-9.70	415.94
140	0.00	48.54	-9.70	415.94
145	0.00	48.80	-9.70	415.94
150	0.00	49.43	-9.70	415.94
155	0.00	50.43	-9.72	415.67
160	0.00	51.78	-9.72	415.69
165	0.00	53.43	-9.72	415.68
170	0.00	55.18	-10.67	403.92
175	0.00	56.32	-10.70	403.62
180	0.00	56.71	-10.70	403.62
185	0.00	56.32	-10.70	403.62

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Coordination Values

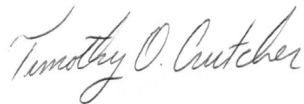
BROOKSVILLE, FL

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Antenna Mode Receive 4.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	55.18	-12.26	385.21
195	0.00	53.38	-11.42	394.97
200	0.00	51.01	-10.70	403.62
205	0.00	48.18	-10.70	403.62
210	0.00	45.00	-10.70	403.62
215	0.00	41.53	-10.70	403.62
220	0.00	37.84	-10.70	403.62
225	0.00	33.99	-10.25	409.17
230	0.00	30.00	-8.70	428.66
235	0.00	26.13	-8.70	428.66
240	0.00	22.68	-8.70	428.66
245	0.00	19.86	-8.67	429.03
250	0.00	17.96	-8.29	433.96
255	0.00	17.30	-8.16	435.69
260	0.00	18.02	-8.30	433.81
265	0.00	19.96	-8.69	428.76
270	0.00	22.82	-8.70	428.66
275	0.00	26.29	-8.70	428.66
280	0.00	30.17	-8.87	426.48
285	0.00	34.32	-9.70	415.94
290	0.00	38.64	-9.70	415.94
295	0.00	43.09	-9.70	415.94
300	0.00	47.63	-9.70	415.94
305	0.00	52.24	-9.70	415.94
310	0.00	56.90	-9.70	415.94
315	0.00	61.59	-9.70	415.94
320	0.00	66.30	-9.70	415.94
325	0.00	71.04	-9.70	415.94
330	0.00	75.79	-9.70	415.94
335	0.00	80.56	-9.70	415.94
340	0.00	85.33	-9.70	415.94
345	0.00	90.10	-9.70	415.94
350	0.23	94.88	-9.70	404.66
355	0.23	99.66	-9.70	404.44

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.



Timothy O. Crutcher
Frequency Planner
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: August 10, 2009