

EXHIBIT F - EXTENDED C-BAND FREQUENCY COORDINATION

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for

Newcom International, Inc.
Miami, Florida
Call Sign: E040267

Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
December 29, 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

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.

An Information-Only letter for this earth station was sent to the below listed carriers with a letter dated December 28, 2009.

Company

ALLTEL Wireless Holdings, LLC.
Central Florida Cellular Telephone Co
EMBRAER - Empresa Brasileira de Aeronaut
Embarq Florida, Inc.
FLORIDA POWER AND LIGHT COMPANY
Florida RSA No. 2B (Indian River) LP
Harris Corporation - Orlando, FL
LEE COUNTY, FLORIDA - BOCC
METROPOLITAN AREA NETWORKS, INC.
Miami-Dade County
New Cingular Wireless PCS LLC - N FL
New Cingular Wireless PCS LLC - S FL
Palm Beach County Facilities Dev & Ops
Saint Lucie, County of
South Florida Water Management District
Sun Broadcasting, Inc.
Verizon Wireless Personal Comm, L.P.(FL)
BARRY TELECOMMUNICATIONS, INC.,
CBS Television Stations
Dade, County of
MARTIN COUNTY SHERIFFS OFFICE
Manatee County Sheriff's Office
Miami City Police Department
NBC TELEMUNDO LICENSE CO.
Palm Beach County School Board
Post-Newsweek Stations Florida - WPLG-TV
SCHOOL BOARD OF BROWARD COUNTY
Seminole County Sheriff Dept
Sunbeam Television Corp.
WPB TV LICENSEE CORP.
BROWARD COUNTY BOARD OF COMMISSIONERS
BROWARD COUNTY TELECOMMUNICATIONS DIV
CITY OF MIAMI
COLLIER, COUNTY OF
City of West Palm Beach

Company (Continued)

FLORIDA, STATE OF
Fort Lauderdale City Florida
INDIAN RIVER COUNTY
MARTIN COUNTY FLORIDA
Miami-Dade County
New Cingular Wireless PCS LLC - N FL
New Cingular Wireless PCS LLC - S FL
PALM BEACH COUNTY SHERIFFS OFFICE
Palm Beach County Facilities Dev & Ops
RIVIERA BEACH CITY OF
Telecom Systems, Ltd.
AT&T California
Verizon Wireless Personal Comm, L.P.(FL)
Verizon California Inc.
Verizon Delaware Inc.
Verizon Maryland Inc.
Verizon New Jersey Inc.
Verizon New York Inc.
Verizon Pennsylvania Inc.
Verizon Virginia Inc.
Verizon Washington DC Inc.
Verizon North Inc.
Verizon South Inc.
Verizon New England Inc.
Verizon Northwest Inc.
Bellsouth Telecommunications, Inc
Indiana Bell Telephone Company Inc.
Ohio Bell Telephone Company
Cincinnati Bell Telephone Company LLC
Wisconsin Bell Inc.
Illinois Bell Telephone Company
Michigan Bell Telephone Company
Hawaiian Telecom, Inc., Debtor-in-Possession
Southwestern Bell Telephone Company
Carolina Telephone and Telegraph LLC
ALASCOM, Inc.
United Telephone Southeast LLC
Ascent Media Network Services, LLC
Mercury Communications
Quick Link Connections, Inc.
Chicago ComNet Corporation
Direct Broadcasting Service, Inc
Village Video Production Inc.
New England Satellite Systems, Inc.
Moreen, Stephen K.
NSM Surveillance
Information Super Station LLC
Broadcast Communications Microwave Inc.
Randy Hermes Productions Inc.
Global Microwave Systems Inc.
Penn Service Microwave Company, Inc.

Company (Continued)

HF Enterprises, Inc d/b/a/ HSE Communications, Inc.
Broadcast Sports, Inc.
HBJ Parks, Inc.
RF Central, LLC
Westar Satellite Services, LP
Borgeson, Tom R.
Metro Networks Communications Inc.
UniSat, Inc.
Casper, John
Qwest Corporation
International Communications Group, Inc, d/b/a/ Corban Networks
Hallco Unlimited, Inc.
Radiofone, Inc. d/b/a/ ALLTEL
Regulus Media Services, Inc.
Kentucky RSA 3 Cellular General Partnership
Kentucky RSA 4 Cellular General Partnership
Plateau Communications
CNG Communications, Inc.
Remote Facilities Consulting Services
Winged Vision Inc.
RCC Minnesota, Inc.
Goodyear Tire & Rubber Company
New England Digital Distribution Inc.
Navajo Communication Company, Inc.
VYVX, LLC
CenturyTel of the Southwest, Inc.
Production & Satellite Services, Inc.
Total RF Productions, LLC
DCI II. Inc.
Western Technical Services (A Division of Focus Communications, Inc.)
Wexler Video, Inc.
3G Wireless, LLC
Information & Display Systems, Inc.
Cohen, Elena
Speedshotz, Inc.
On Scene Video Production
Remote Broadcasts Inc.
Plum TV, LLC
Public Television Communications Center, Troy Public Broadcasting
Northwest Suburbs Community Access Corporation d/b/a/ Northwest Community Television
RF Film, Inc.
Citywide News Network, Inc.
Heiden, Mr. William
Wolfe Air Aviation
RF Technology
Onboard Images
GSN News, Inc.
Cowboys Stadium LP

Society of Broadcast Engineers (SBE)

Florida: Miami Region
Tampa Region
Central
Palm Beach Region
Ft. Myers Region – TV
Ft. Myers Region - Radio

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: 12/29/2009
Job Number: 091228COMSJC02

Administrative Information

Status ENGINEER PROPOSAL
Call Sign E040267
Licensee Code NCOMIN
Licensee Name Newcom International, Inc.

Site Information MIAMI, FLORIDA

Venue Name
Latitude (NAD 83) 25° 54' 59.3" N
Longitude (NAD 83) 80° 13' 29.2" W
Climate Zone B
Rain Zone 1
Ground Elevation (AMSL) 1.83 m / 6.0 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 11° W to 12° West Longitude
Azimuth Range 99.4° to 99.9°
Corresponding Elevation Angles 10.0° / 11.0°
Antenna Centerline (AGL) 5.49 m / 18.0 ft

Antenna Information

Receive

Manufacturer Andrew Corporation
Model 7.3 Meter
Gain / Diameter 48.5 dBi / 7.3 m
3-dB / 15-dB Beamwidth 0.70° / 1.30°

Transmit

Andrew Corporation
7.3 Meter
51.7 dBi / 7.3 m
0.42° / 0.84°

				45K0G7D	128KG7D	40M0G7W
Max Available RF Power	(dBW/4 kHz)			-2.7	-2.7	-18.8
	(dBW/MHz)			7.8	12.4	5.3
Maximum EIRP	(dBW/4 kHz)			49.0	49.0	33.0
	(dBW/MHz)			59.5	64.1	57.0
	(dBW)			59.5	64.1	73.0
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

Emission / Frequency Range (MHz)
45K0G7D / 3700.0 - 4200.0
128KG7D / 3700.0 - 4200.0
40M0G7W / 3700.0 - 4200.0

Transmit 6.1 GHz

45K0G7D / 6425.0 - 6525.0
128KG7D / 6425.0 - 6525.0
40M0G7W / 6425.0 - 6525.0

Max Great Circle Coordination Distance 682.8 km / 424.2 mi 318.2 km / 197.7 mi
Precipitation Scatter Contour Radius 626.3 km / 389.1 mi 135.6 km / 84.3 mi

COMSEARCH

Earth Station Data Sheet

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

Coordination Values

MIAMI, FL

Licensee Name Newcom International, Inc.
Latitude (NAD 83) 25° 54' 59.3" N
Longitude (NAD 83) 80° 13' 29.2" W
Ground Elevation (AMSL) 1.83 m / 6.0 ft
Antenna Centerline (AGL) 5.49 m / 18.0 ft
Antenna Model Andrew Corporation 7.3 Meter
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 -2.7 (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	99.27	-10.00	412.20	-10.00	200.77
5	0.00	94.35	-10.00	412.20	-10.00	200.77
10	0.00	89.43	-10.00	412.20	-10.00	200.77
15	0.00	84.50	-10.00	412.20	-10.00	200.77
20	0.00	79.58	-10.00	412.20	-10.00	200.77
25	0.00	74.66	-10.00	412.20	-10.00	200.77
30	0.00	69.75	-10.00	412.20	-10.00	200.77
35	0.00	64.84	-10.00	412.20	-10.00	200.77
40	0.00	59.93	-10.00	412.20	-10.00	200.77
45	0.00	55.04	-10.00	412.20	-10.00	200.77
50	0.00	50.16	-10.00	412.20	-10.00	200.77
55	0.00	45.31	-9.40	419.67	-9.40	204.20
60	0.00	40.47	-8.18	435.44	-8.18	211.37
65	0.00	35.68	-6.81	453.80	-6.81	219.62
70	0.00	30.94	-5.26	474.83	-5.26	229.24
75	0.00	26.28	-3.49	500.91	-3.49	240.63
80	0.00	21.77	-1.45	532.79	-1.45	254.29
85	0.00	17.51	0.92	572.02	0.92	269.34
90	0.00	13.73	3.56	618.72	3.56	289.60
95	0.00	10.96	6.01	664.35	6.01	310.04
100	0.00	10.06	6.94	682.77	6.94	318.24
105	0.00	11.47	5.51	654.70	5.51	305.75
110	0.00	14.55	2.93	607.33	2.93	284.62
115	0.00	18.47	0.34	562.15	0.34	265.12
120	0.00	22.78	-1.94	524.97	-1.94	250.97
125	0.00	27.24	-3.88	495.08	-3.88	238.10
130	0.00	31.85	-5.58	470.33	-5.58	227.26
135	0.00	36.55	-7.07	450.21	-7.07	218.02
140	0.00	41.32	-8.40	432.51	-8.40	210.04
145	0.00	46.13	-9.60	417.21	-9.60	203.07
150	0.00	50.96	-10.00	412.20	-10.00	200.77
155	0.00	55.82	-10.00	412.20	-10.00	200.77
160	0.00	60.69	-10.00	412.20	-10.00	200.77
165	0.00	65.58	-10.00	412.20	-10.00	200.77
170	0.00	70.47	-10.00	412.20	-10.00	200.77
175	0.00	75.37	-10.00	412.20	-10.00	200.77
180	0.00	80.28	-10.00	412.20	-10.00	200.77
185	0.00	85.18	-10.00	412.20	-10.00	200.77

COMSEARCH

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Coordination Values

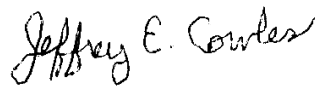
MIAMI, FL

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Antenna Mode	Receive 4.0 GHz				
Interference Objectives: Long Term	-156.0 dBW/MHz	20%	Transmit 6.1 GHz	-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	-2.7 (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	90.09	-10.00	412.20	-10.00	200.77
195	0.00	95.00	-10.00	412.20	-10.00	200.77
200	0.00	99.91	-10.00	412.20	-10.00	200.77
205	0.00	104.81	-10.00	412.20	-10.00	200.77
210	0.00	109.71	-10.00	412.20	-10.00	200.77
215	0.00	114.61	-10.00	412.20	-10.00	200.77
220	0.00	119.49	-10.00	412.20	-10.00	200.77
225	0.00	124.36	-10.00	412.20	-10.00	200.77
230	0.00	129.22	-10.00	412.20	-10.00	200.77
235	0.00	134.06	-10.00	412.20	-10.00	200.77
240	0.00	138.86	-10.00	412.20	-10.00	200.77
245	0.00	143.63	-10.00	412.20	-10.00	200.77
250	0.00	148.33	-10.00	412.20	-10.00	200.77
255	0.00	152.93	-10.00	412.20	-10.00	200.77
260	0.00	157.39	-10.00	412.20	-10.00	200.77
265	0.00	161.58	-10.00	412.20	-10.00	200.77
270	0.00	165.27	-10.00	412.20	-10.00	200.77
275	0.00	168.01	-10.00	412.20	-10.00	200.77
280	0.00	169.05	-10.00	412.20	-10.00	200.77
285	0.00	167.93	-10.00	412.20	-10.00	200.77
290	0.00	165.15	-10.00	412.20	-10.00	200.77
295	0.00	161.43	-10.00	412.20	-10.00	200.77
300	0.00	157.19	-10.00	412.20	-10.00	200.77
305	0.00	152.64	-10.00	412.20	-10.00	200.77
310	0.00	147.96	-10.00	412.20	-10.00	200.77
315	0.00	143.21	-10.00	412.20	-10.00	200.77
320	0.00	138.40	-10.00	412.20	-10.00	200.77
325	0.00	133.56	-10.00	412.20	-10.00	200.77
330	0.00	128.70	-10.00	412.20	-10.00	200.77
335	0.00	123.82	-10.00	412.20	-10.00	200.77
340	0.00	118.92	-10.00	412.20	-10.00	200.77
345	0.00	114.02	-10.00	412.20	-10.00	200.77
350	0.00	109.11	-10.00	412.20	-10.00	200.77
355	0.00	104.19	-10.00	412.20	-10.00	200.77

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 Boulevard
Ashburn, Va 20147

DATED: December 29, 2009