

EXHIBIT A

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for

Globecomm Systems, Inc.
Hauppauge, New York

Satellite Earth Station

Prepared By:

COMSEARCH

19700 Janelia Farm Boulevard

Ashburn, Virginia 20147

February 29, 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. Further, to expedite the frequency coordination process, if there were any unresolved interference cases in the receive spectrum, the Applicant accepted those cases.

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

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.

Expedited coordination data for this earth station was emailed and sent to the below listed carriers with a letter dated February 22, 2012.

Company

ALGONQUIN GAS TRANSMISSION CO
AMFM RADIO LICENSES, LLC
ART Licensing Corp.
AT&T CORP
Aerbender, LLC
Airband Communications Inc
Allentown SMSA Limited Partnership
Appalachian Broadcasting
Archdiocese of New York Dept of Educatio
Atlantic Telecommunications
Auburn Data Systems, LLC
BFI Licenses, LLC
BJS Wholesale Club, Inc
Berks, County of
Binghamton MSA Limited Partnership
Boston Catholic Television Inc.
Bucks, County of
Business Only Broadband, LLC
CAMDEN COUNTY
CHESTER, COUNTY OF
CMEEC
COUNTY OF MORRIS
Cape May County Municipal Utilities Auth
Capital Communications of America
Cellico Partnership - (W-NY)
Cellico Partnership - CT, W-MA, VT
Cellico Partnership - E-MA, NH, RI
Cellico Partnership- PA Region
Cellico Partnership-Newark-Dallas Verizon
Cellico Ptnrshp - Phil. Tri-State Rgn
City of Bristol Mayor's Office
City of New Haven Police Services
City of Providence RI Public Safety Comm
Clarity Connect, Inc.

Company (Continued)

Clearwire Spectrum Holdings III, LLC
Comprehensive Wireless LLC
Conterra Ultra Broadband, LLC
County of Bergen, Bergen Cnty Police Dep
County of Burlington
County of Warren
D&E Communications, Inc.
DAUPHIN COUNTY EMERGENCY MANAGEMENT
DELAWARE STATE - DTI
Direct Broadcast Services, Inc.
EAST HAMPTON TOWN POLICE DEPARTMENT
ECW Wireless, LLC
EG Broadcast Newco Corp
Eastern Mlig
Essex County Sheriff Office
Exelon Generation Company, L.L.C
FORDHAM UNIVERSITY(WFUV)
FiberTower Network Services Corp.
Fibertrack, LLC
Fleet Systems, LLC
Fundamental Broadcasting LLC
GAW High-Speed Internet
GREATER PHILADELPHIA RADIO INC
Garden State Transmissions
Global Crossing Telecommunications, Inc.
Gloucester Township
Goosetown Network Services, LLC
Greenwich, Town of (CT)
High Voltage Communications LLC
Hopewell Radiology Group
Hudson County MIS Department
Hudson County Prosecutor's Office
Industrial Tower and Wireless, LLC
Jefferson Microwave, LLC
Jubatus, LLC
Kryptic Technologies
LACKAWANNA COMMUNICATIONS
LACKAWANNA COUNTY
LANCASTER COUNTY OF
Last Mile Inc.
Lehigh, County of
M-Wave Networks LLC
MB Microwave, LLC
METROPOLITAN AREA NETWORKS, INC.
MILLENNIUM EGG HARBOR LICENSE HOLDCO, LL
Manchester, Township of
Massachusetts Department of State Police
Massachusetts Water Resources Authority
Massachusetts, Commonwealth Public Works
Meridian Microwave
Metro Networks Communications, Inc.
Metropolitan Broadband Systems, LLC

Company (Continued)

Mid-Hudson Data Corp
Millennium Shore License Holdco, LLC
Monroe County Control Center (PA)
NEW JERSEY STATE DEPT OF TRANSPORTATION
NEW YORK CITY POLICE DEPARTMENT
NSTAR Electric Company
NY Dept of Health and Mental Hygiene
NYNEX Mobile Limited Partnership 2
Nassau County Police Department
National Grid USA Service Company, Inc
Netrepid, Inc.
New Britain, City of
New Cingular Wireless PCS LLC -NJ
New Cingular Wireless PCS LLC - MA
New Cingular Wireless PCS of PA LLC
New Cingular Wireless PCS, LLC (NY)
New Cingular Wireless PCS, LLC - PA
New Jersey State Police
New Jersey Transit Rail Operations, Inc.
New Jersey Turnpike Authority-Pkwy Div
New Jersey, State of -NJ Transit
New York Communications CO., Inc
New York SMSA LP (Northern NJ)
New York SMSA Limited Partnership
New York State Police
New York, City of
Newgig Networks, LLC
Norcom Communications
Northeast Pennsylvania SMSA LTD Ptnrsh
Northeast Utilities Services Company
Northrop Grumman Information Technology
Northrop Grumman Systems Corporation Inc
Norton, Douglas
Ocean, County of-Div of Wireless Tech.
Orange Poughkeepsie SMSA LTD Partnership
Orange and Rockland Utilities, Inc.
Orangetown, Town of NY
PENNSYLVANIA TURNPIKE COMMISSION
PISCATAWAY, TOWNSHIP OF
PSEG Services Corporation
Passaic Valley Microwave
Peco Energy Company
Philly Sports Wireless
Pitt Power
Port Authority of New York & New Jersey
QUALCOMM INC.
Qoncept Holdings LLC
Rockland, County of
SANOFI PASTEUR
SCHUYLKILL, COUNTY OF
SECOM NET

Company (Continued)

SOUTHEASTERN PENNSYLVANIA TRANSIT AUTH
STAMFORD, CITY OF
STATE OF NEW JERSEY - OFFICE OF PUBLIC
SUFFOLK, COUNTY OF
SW Networks
Salem County Information Technology
Saratoga County Office of Emergency Svcs
Sprint Spectrum, LP
Stevens Institute of Technology
Suffolk, County of
TELEMARK NETWORKS, INC
THE BROOKLYN HOSPITAL CENTER
Telecom Transport Management, Inc
Thacher, Proffitt & Wood LLP
Thought Transmissions, LLC
Towerstream Corp
Town of Narragansett, Rhode Island
Town of Woodbridge, Police Department
Township of Jackson
Transcontinental Gas Pipeline Corp.
Turtle Networks 6384
Turtle Networks, 6386
Velox Networks LLC
Verizon New Jersey, Inc.
Verizon Wireless (VAW) LLC (NY)
WESTCHESTER, COUNTY OF
WHYY, INC.
Wayne, County of
Wayne, Township of
Webline Holdings LLC
Wico, LLC
Wireless Backhaul Infrastructure, LLC
Wireless Internetwork LLC
World Class Wireless LLC
York County Dept of Emergency Services
Zen Networks, Inc
Signal

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

Date: 02/29/2012
Job Number: 120222CCOMSJC01

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign: SWSITE
Licensee Code: Globecomm Systems, Inc.
Licensee Name:

Site Information

Venue Name: **HAUPPAUGE, NEW YORK**
Latitude (NAD 83): 40° 48' 54.4" N
Longitude (NAD 83): 73° 14' 13.1" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 32.0 m / 105.0 ft

Link Information

Satellite Type: Geostationary
Mode: TR - Transmit-Receive
Modulation: Digital
Satellite Arc: 37.5° W to 143° West Longitude
Azimuth Range: 132.3° to 256.4°
Corresponding Elevation Angles: 30.4° / 6.5°
Antenna Centerline (AGL): 7.32 m / 24.0 ft

Antenna Information

Manufacturer: Thrane & Thrane
Model: Sailor 900
Gain / Diameter: 40.1 dBi / 1.0 m
3-dB / 15-dB Beamwidth: 1.70° / 3.20°

Transmit

Thrane & Thrane
Sailor 900
41.6 dBi / 1.0 m
1.43° / 2.70°
43K0G7W to 688KGTW

Receive

Thrane & Thrane
Sailor 900
40.1 dBi / 1.0 m
1.70° / 3.20°

Max Available RF Power: (dBW/4 KHz) -15.8
(dBW/MHz) -5.5

-15.8 -15.8
-5.5 7.6

Maximum EIRP: (dBW/4 KHz) 25.8
(dBW/MHz) 36.1
(dBW) 36.1

25.8 25.8
36.1 48.2
36.1 48.2

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

-151.0 dBW/4 KHz 20%
-128.0 dBW/4 KHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz):
43K0G7W - 688KGTW / 10950.0 - 11200.0
43K0G7W - 688KGTW / 11450.0 - 12700.0

Receive 11.0 GHz

43K0G7W - 688KGTW / 10950.0 - 11200.0
43K0G7W - 688KGTW / 11450.0 - 12700.0

Transmit 14.0 GHz

43K0G7W - 688KGTW / 14000.0 - 14500.0

Max Great Circle Coordination Distance: 330.6 km / 205.4 mi
Precipitation Scatter Contour Radius: 578.4 km / 359.4 mi

131.7 km / 81.8 mi
100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

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Coordination Values		HAUPPAUGE, NY	
Licensee Name		Globecomm Systems, Inc.	
Latitude (NAD 83)		40° 48' 54.4" N	
Longitude (NAD 83)		73° 14' 13.1" W	
Ground Elevation (AMSL)		32.0 m / 105.0 ft	
Antenna Centerline (AGL)		7.32 m / 24.0 ft	
Antenna Model		Thrane & Thrane Sailor 900	
Antenna Mode		Receive 11.0 GHz	
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%
	Short Term	-146.0 dBW/MHz	0.01%
Max Available RF Power		Transmit 14.0 GHz	
		-151.0 dBW/4 KHz	20%
		-128.0 dBW/4 KHz	0.0025%
		-15.8 (dBW/4 KHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 11.0 GHz		Transmit 14.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	103.46	-10.00	231.37	-10.00	111.37
5	0.00	108.43	-10.00	231.37	-10.00	111.37
10	0.00	113.39	-10.00	231.37	-10.00	111.37
15	0.00	113.26	-10.00	231.37	-10.00	111.37
20	0.00	109.06	-10.00	231.37	-10.00	111.37
25	0.00	104.82	-10.00	231.37	-10.00	111.37
30	0.00	100.55	-10.00	231.37	-10.00	111.37
35	0.00	96.25	-10.00	231.37	-10.00	111.37
40	0.00	91.94	-10.00	231.37	-10.00	111.37
45	0.00	87.63	-10.00	231.37	-10.00	111.37
50	0.00	83.32	-10.00	231.37	-10.00	111.37
55	0.00	79.03	-10.00	231.37	-10.00	111.37
60	0.00	74.76	-10.00	231.37	-10.00	111.37
65	0.00	70.52	-10.00	231.37	-10.00	111.37
70	0.00	66.33	-10.00	231.37	-10.00	111.37
75	0.00	62.19	-10.00	231.37	-10.00	111.37
80	0.00	58.13	-10.00	231.37	-10.00	111.37
85	0.28	54.05	-10.00	223.60	-10.00	105.17
90	0.35	50.16	-10.00	217.39	-10.00	100.07
95	0.45	46.40	-9.66	210.26	-9.66	100.00
100	0.25	43.01	-8.84	231.90	-8.84	110.59
105	0.00	39.94	-8.04	240.18	-8.04	116.21
110	0.00	37.04	-7.22	243.98	-7.22	118.25
115	0.00	34.55	-6.46	247.69	-6.46	120.15
120	0.47	32.13	-5.67	225.15	-5.67	101.36
125	0.52	30.68	-5.17	223.85	-5.17	100.00
130	0.59	29.89	-4.89	221.22	-4.89	100.00
135	0.42	30.10	-4.97	233.16	-4.97	106.99
140	0.36	30.94	-5.26	237.25	-5.26	110.64
145	0.37	32.39	-5.76	233.58	-5.76	108.34
150	0.29	34.53	-6.46	238.84	-6.46	113.36
155	0.00	37.07	-7.23	243.94	-7.23	118.23
160	0.00	39.05	-7.79	241.31	-7.79	116.82
165	0.00	40.66	-8.23	239.29	-8.23	115.73
170	0.00	41.85	-8.54	237.86	-8.54	114.96
175	0.00	42.57	-8.73	237.02	-8.73	114.50
180	0.00	42.82	-8.79	236.74	-8.79	114.34
185	0.24	42.33	-8.67	233.36	-8.67	111.56

COMSEARCH

Earth Station Data Sheet

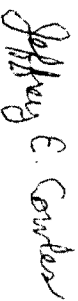
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Antenna Centerline (AGL)		7.32 m / 24.0 ft	
Antenna Model		Thrane & Thrane Sailor 900	
Antenna Mode		Receive 11.0 GHz	
Interference Objectives:	Long Term	20%	Transmit 14.0 GHz
	Short Term	-146.0 dBW/MHz	-151.0 dBW/4 KHz
Max Available RF Power		0.01%	-128.0 dBW/4 KHz
			-15.8 (dBW/4 KHz)
			20%
			0.0025%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 11.0 GHz		Transmit 14.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.48	41.38	-8.42	212.18	-8.42	100.00
195	0.74	39.97	-8.04	203.30	-8.04	100.00
200	0.96	38.19	-7.55	194.68	-7.55	100.00
205	1.02	36.19	-6.97	194.67	-6.97	100.00
210	0.94	33.98	-6.28	201.05	-6.28	100.00
215	0.69	31.62	-5.50	213.81	-5.50	100.00
220	0.52	28.93	-4.53	226.48	-4.53	100.96
225	0.54	25.90	-3.33	231.25	-3.33	103.23
230	0.54	22.71	-1.91	238.20	-1.91	106.83
235	0.53	19.39	-0.19	247.52	-0.19	111.65
240	0.64	15.87	1.99	252.83	1.99	112.48
245	0.70	12.29	4.76	264.50	4.76	117.16
250	0.71	8.68	8.54	286.33	8.54	127.30
255	0.88	5.84	12.84	330.59	12.84	131.66
260	0.77	6.77	11.24	297.60	11.24	131.64
265	0.92	10.22	6.76	263.93	6.76	113.47
270	0.58	14.78	2.76	260.18	2.76	116.95
275	0.58	19.45	-0.22	244.34	-0.22	109.19
280	0.65	24.23	-2.61	228.99	-2.61	100.33
285	0.54	29.12	-4.60	225.08	-4.60	100.00
290	0.28	34.06	-6.31	239.76	-6.31	113.91
295	0.00	39.02	-7.78	241.35	-7.78	116.85
300	0.00	43.94	-9.07	235.47	-9.07	113.65
305	0.00	48.88	-10.00	231.37	-10.00	111.37
310	0.00	53.82	-10.00	231.37	-10.00	111.37
315	0.00	58.78	-10.00	231.37	-10.00	111.37
320	0.00	63.74	-10.00	231.37	-10.00	111.37
325	0.00	68.70	-10.00	231.37	-10.00	111.37
330	0.00	73.66	-10.00	231.37	-10.00	111.37
335	0.00	78.63	-10.00	231.37	-10.00	111.37
340	0.00	83.59	-10.00	231.37	-10.00	111.37
345	0.00	88.56	-10.00	231.37	-10.00	111.37
350	0.00	93.53	-10.00	231.37	-10.00	111.37
355	0.00	98.49	-10.00	231.37	-10.00	111.37

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: February 29, 2012