

Prepared By

COMSEARCH

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

Prepared For

**Intelsat North America LLC
CLARKSBURG, MARYLAND**

Temporary Transmit/Receive Earth Station
Operation Dates: 05/21/2010 - 11/21/2010

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. Verbal and written coordination was conducted with the below listed carriers on April 9, 2010.

Company

ALLTEL Communications of VA No. 1, Inc.
ALLTEL Communications, LLC
AT&T COMMUNICATIONS OF MARYLAND INC
AT&T COMMUNICATIONS OF VIRGINIA INC
AT&T CORP
Allegheny Power Service Corporation
Alltel Communications LLC - Verizon SOVA
Alltel Communications of Virginia #1 LLC
Alltel Communications of Virginia, Inc.
Atlantic Broadband (Delmar), LLC
Atlantic Broadband (Penn), LLC
Atlantic City Electric Company
BAY BROADBAND COMMUNICATIONS LLC
BEDFORD COUNTY 911
Baltimore County of Maryland
Baltimore Gas and Electric Company
Borough of Huntingdon
CHESTER, COUNTY OF
COLLEGE OF SOUTHERN MARYLAND
Carolina Power & Light Company
Cellco Partnership - Southern Virginia
Cellco Partnership- PA Region
Cellco Partnership-Newark-Dallas Verizon
Cellco Partnership-Washington/Baltimore
Cellco Prtnrshp - Phil. Tri-State Rgn
Charles, County of
Charlottesville Cellular Partnership
Conterra Ultra Broadband, LLC

Company (Continued)

County of Frederick
County of Stafford
County of York
DAUPHIN COUNTY EMERGENCY MANAGEMENT
DELAWARE STATE - DTI
Delmarva Power & Light Company
Enoch Pratt Free Library
Exelon Generation Company, L.L.C
Federal Communications Commission
Frederick County
Gloucester County
Gloucester, County of
HANOVER COUNTY
Hampton Roads Planning District Commission
Hardy Cellular Telephone Company
Harrisonburg-Rockingham ECC
International Communications Group, Inc.
LB Tower Company LLC
Last Mile Inc.
Local Communications Network, Inc.
Loudoun, County of
MARYLAND PUBLIC BROADCASTING COMMISSION
MCI Communication Services, Inc.
METROPOLITAN AREA NETWORKS, INC.
Maryland State Highway Administration
Maryland, State of - Budget & Management
Mecklenburg Electric Cooperative
NTELOS Telephone, Inc.
National Radio Astronomy Observatory
New Cingular Wireless PCS LLC -NJ
New Cingular Wireless PCS - VA/DC/MD
New Cingular Wireless PCS LLC - DC
New Cingular Wireless PCS LLC- DE/NH/RI
New Cingular Wireless PCS, LLC - PA
New Jersey, State of -NJ Transit
Norfolk Southern Railway
Northern Virginia Electric Cooperative
Open Range Communications
PENNSYLVANIA TURNPIKE COMMISSION
PRINCE WILLIAM COUNTY
PSEG Services Corporation
Peco Energy Company
Penn Service Microwave Co., Inc.
Petersburg Cellular Partnership
Prince George's County
RAPPAHANNOCK ELECTRIC COOPERATIVE
RCTC Wholesale Corporation - Verizon
SCTF NET
South & Central Wireless, LLC - SOVA
Southern Maryland Electric Cooperative I

Company (Continued)

State of Maryland, MIEMSS
State of WV DHHR/BPH STECS
Texas Eastern Communications, inc.
UNIVERSITY OF NORTH CAROLINA
USCOC of Cumberland, Inc.
USCOC of North Carolina RSA #7, Inc.
USCOC of Virginia RSA #2, Inc.
USCOC of Virginia RSA #3, Inc.
Verizon Maryland, Inc.
Verizon Virginia, Inc.
Virginia Broadband, LLC
Virginia Cellular LLC
Virginia Department of State Police
Virginia Electric & Power Company
Virginia PCS Alliance, L.C.
Virginia RSA #7, Inc.
WASHINGTON SUBURBAN SANITARY COMMISSION
WITF Inc.
Washington D.C. SMSA L.P.
Washington Gas Light Company
Wireless Strategies, Inc.
York County

There are no unresolved interference objections with the stations contained in these applications.

The following 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
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Date: 04/28/2010
 Job Number: 100409COMSJC03

Administrative Information

Status: TEMPORARY (Operation from 05/21/2010 to 11/21/2010)
 Call Sign: TEMP11
 Licensee Code: INTNOA
 Licensee Name: Intelsat North America LLC

Site Information **CLARKSBURG, MARYLAND**

Venue Name:
 Latitude (NAD 83): 39° 13' 7.4" N
 Longitude (NAD 83): 77° 16' 10.9" W
 Climate Zone: A
 Rain Zone: 2
 Ground Elevation (AMSL): 140.82 m / 462.0 ft

Link Information

Satellite Type: Low Earth Orbit
 Mode: TR - Transmit-Receive
 Modulation: Digital
 Minimum Elevation Angle: 5.0°
 Azimuth Range: 0.0° to 360°
 Antenna Centerline (AGL): 12.8 m / 42.0 ft

Antenna Information

		Receive		Transmit
Manufacturer		TIW		TIW
Model		19.2 Meter		19.2 Meter
Gain / Diameter		55.6 dBi / 19.2 m		59.1 dBi / 19.2 m
3-dB / 15-dB Beamwidth		0.20° / 0.60°		0.20° / 0.40°
Max Available RF Power	(dBW/4 kHz) (dBW/MHz)			11.1 34.4
Maximum EIRP	(dBW/4 kHz) (dBW/MHz) (dBW)			70.2 93.5 93.5
Interference Objectives:	Long Term Short Term	-156.0 dBW/MHz -146.0 dBW/MHz	20% 0.01%	-154.0 dBW/4 kHz -131.0 dBW/4 kHz
				20% 0.0025%

Frequency Information

	Receive 4.0 GHz	Transmit 6.1 GHz
Emission / Frequency Range (MHz)	150KFXD / 3956.2 150KFXD / 3957.7	850KFXD / 6182.0 850KFXD / 6183.5
Max Great Circle Coordination Distance	452.7 km / 281.3 mi	350.2 km / 217.6 mi
Precipitation Scatter Contour Radius	469.5 km / 291.7 mi	456.2 km / 283.4 mi

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Earth Station Data Sheet

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Coordination Values

CLARKSBURG, MD

Licensee Name	Intelsat North America LLC		
Latitude (NAD 83)	39° 13' 7.4" N		
Longitude (NAD 83)	77° 16' 10.9" W		
Ground Elevation (AMSL)	140.82 m / 462.0 ft		
Antenna Centerline (AGL)	12.8 m / 42.0 ft		
Antenna Model	TIW 19.2 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			11.1 (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	1.17	98.13	4.50	313.10	4.50	198.30
5	1.09	93.13	4.50	313.10	4.50	198.30
10	1.01	88.13	4.50	317.80	4.50	203.20
15	1.17	83.13	4.50	308.70	4.50	193.70
20	1.29	78.13	4.50	302.40	4.50	187.20
25	1.31	73.13	4.50	302.90	4.50	187.80
30	1.14	68.13	4.50	314.80	4.50	200.10
35	1.44	63.13	4.50	299.00	4.50	183.70
40	1.48	58.13	4.50	285.20	4.50	169.30
45	1.54	53.13	4.50	294.80	4.50	179.30
50	1.22	48.13	4.50	309.20	4.50	193.30
55	0.85	43.13	4.50	327.40	4.50	213.90
60	0.76	38.13	4.50	332.30	4.50	218.30
65	0.82	33.13	4.50	333.10	4.50	219.10
70	0.96	28.13	4.50	320.80	4.50	206.40
75	0.82	23.13	4.50	330.20	4.50	216.10
80	0.82	18.13	4.50	330.90	4.50	216.80
85	0.79	13.14	4.50	332.30	4.50	218.30
90	0.74	8.14	4.50	335.30	4.50	221.40
95	0.67	3.17	4.50	338.40	4.50	224.60
100	0.73	1.91	4.50	337.60	4.50	223.80
105	0.84	6.87	4.50	328.80	4.50	214.60
110	0.76	11.87	4.50	333.10	4.50	219.10
115	0.81	16.87	4.50	337.60	4.50	223.80
120	0.81	21.87	4.50	329.50	4.50	215.30
125	0.89	26.87	4.50	324.00	4.50	209.70
130	0.83	31.87	4.50	325.40	4.50	211.10
135	0.66	36.87	4.50	343.30	4.50	229.80
140	0.49	41.87	4.50	356.40	4.50	243.40
145	0.37	46.87	4.50	364.00	4.50	251.40
150	0.30	51.87	4.50	379.60	4.50	267.80
155	0.26	56.87	4.50	379.60	4.50	267.80
160	0.36	61.87	4.50	379.60	4.50	267.80
165	0.37	66.87	4.50	370.00	4.50	257.70
170	0.32	71.87	4.50	452.70	4.50	350.20
175	0.00	76.87	4.50	452.70	4.50	350.20
180	0.00	81.87	4.50	452.70	4.50	350.20
185	0.00	86.87	4.50	452.70	4.50	350.20

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Coordination Values

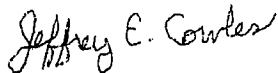
CLARKSBURG, MD

Licensee Name	Intelsat North America LLC		
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Ground Elevation (AMSL)	140.82 m / 462.0 ft		
Antenna Centerline (AGL)	12.8 m / 42.0 ft		
Antenna Model	TIW 19.2 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
Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz
Max Available RF Power			11.1 (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	91.87	4.50	452.70	4.50	350.20
195	0.00	96.87	4.50	452.70	4.50	350.20
200	0.00	101.87	4.50	452.70	4.50	350.20
205	0.00	106.87	4.50	452.70	4.50	350.20
210	0.35	111.87	4.50	372.60	4.50	260.50
215	0.58	116.87	4.50	356.40	4.50	243.40
220	0.74	121.87	4.50	331.60	4.50	217.60
225	0.87	126.87	4.50	323.40	4.50	209.00
230	0.97	131.87	4.50	314.20	4.50	199.50
235	1.00	136.87	4.50	309.70	4.50	194.80
240	1.16	141.87	4.50	308.10	4.50	193.20
245	1.24	146.87	4.50	307.60	4.50	192.60
250	1.03	151.87	4.50	317.20	4.50	202.60
255	1.37	156.87	4.50	303.40	4.50	188.30
260	1.74	161.86	4.50	292.50	4.50	176.90
265	1.95	166.84	4.50	283.20	4.50	167.20
270	2.29	171.79	4.50	274.70	4.50	158.20
275	2.53	176.57	4.50	263.60	4.50	146.80
280	2.61	177.62	4.50	254.70	4.50	137.30
285	2.56	172.99	4.50	249.30	4.50	131.60
290	2.59	168.04	4.50	246.00	4.50	128.20
295	2.59	163.07	4.50	245.50	4.50	127.60
300	2.59	158.09	4.50	248.10	4.50	130.30
305	2.38	153.10	4.50	255.30	4.50	138.00
310	2.14	148.12	4.50	269.90	4.50	153.30
315	2.14	143.12	4.50	286.90	4.50	171.00
320	1.62	138.13	4.50	298.10	4.50	182.70
325	1.37	133.13	4.50	297.60	4.50	182.20
330	1.25	128.13	4.50	304.50	4.50	184.20
335	1.31	123.13	4.50	302.90	4.50	187.80
340	1.35	118.13	4.50	299.50	4.50	184.20
345	1.36	113.13	4.50	300.90	4.50	185.70
350	1.26	108.13	4.50	305.00	4.50	189.90
355	1.24	103.13	4.50	307.60	4.50	192.60

Certification

I hereby certify that I am the technically qualified person responsible for the preparation of the frequency coordination data contained in this report. I am familiar with Parts 101 and 25 of the FCC Rules and Regulations and I have either prepared or reviewed the frequency coordination data submitted with this report, and that it is complete and correct to the best of my knowledge and belief.



Jeffrey E. Cowles
Principal Frequency Planner
COMSEARCH
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Ashburn, Va. 20147

DATED: April 29, 2010