

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: 08/01/2010 - 02/01/2011

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 June 28, 2010.

Company

ALLTEL Communications, LLC
AMERICAN ELECTRIC POWER SERVICE CORP.
APPALACHIAN POWER COMPANY
AT&T COMM. OF THE SOUTH CENTRAL STATES
AT&T COMMUNICATIONS OF MARYLAND INC
AT&T COMMUNICATIONS OF VIRGINIA INC
AT&T COMMUNICATIONS OF WEST VIRGINIA
AT&T CORP
Allegheny Power Service Corporation
Alltel Communications of Virginia #1 LLC
Atlantic Broadband (Delmar), LLC
Atlantic Broadband (Penn), LLC
BAY BROADBAND COMMUNICATIONS LLC
Baltimore County of Maryland
Baltimore Gas and Electric Company
COLLEGE OF SOUTHERN MARYLAND
Cellco Partnership - Southern Virginia
Cellco Partnership- PA Region
Cellco Partnership-Newark-Dallas Verizon
Cellco Partnership-Washington/Baltimore
Charles, County of
Conterra Ultra Broadband, LLC
County of Frederick
County of Stafford
County of York
DELAWARE STATE - DTI
Enoch Pratt Free Library
Exelon Generation Company, L.L.C
Federal Communications Commission
Frederick County
HANOVER COUNTY
HENRICO COUNTY

Company (Continued)

Hardy Cellular Telephone Company
International Communications Group, Inc.
KENTUCKY POWER COMPANY
LB Tower Company LLC
Local Communications Network, Inc.
Loudoun, County of
MARYLAND PUBLIC BROADCASTING COMMISSION
MCI Communications Services Inc.
METROPOLITAN AREA NETWORKS, INC.
Maryland State Highway Administration
Maryland, State of - Budget & Management
National Radio Astronomy Observatory
New Cingular Wireless PCS - VA/DC/MD
New Cingular Wireless PCS LLC - DC
New Cingular Wireless PCS LLC - Ohio
New Cingular Wireless PCS, LLC - PA
New Cingular Wireless PCS, LLC - WV/VA
Norfolk Southern Railway
Northern Virginia Electric Cooperative
PENNSYLVANIA TURNPIKE COMMISSION
PRINCE WILLIAM COUNTY
Prince George's County
RAPPAHANNOCK ELECTRIC COOPERATIVE
RCTC Wholesale Corporation - Verizon
SCTF NET
Southern Maryland Electric Cooperative I
State of Maryland, MIEMSS
State of WV DHHR/BPH STECS
Texas Eastern Communications, Inc.
USCOC of Cumberland, Inc.
Verizon Maryland, Inc.
Virginia Broadband, LLC
Virginia Department of State Police
Virginia Electric & Power Company
Virginia PCS Alliance, L.C.
WASHINGTON SUBURBAN SANITARY COMMISSION
WEST VIRGINIA EDUCATIONAL BROADCASTING
WEST VIRGINIA MEDIA HOLDINGS, LLC
Washington D.C. SMSA L.P.
Washington Gas Light Company
Wireless Strategies, Inc.

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.

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Earth Station Data Sheet

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Date: 06/28/2010
Job Number: 100628COMSJC01

Administrative Information

Status: TEMPORARY (Operation from 08/01/2010 to 02/01/2011)
Call Sign: TEMP02
Licensee Code: INTNOA
Licensee Name: Intelsat North America LLC

Site Information

CLARKSBURG, MARYLAND

Venue Name
Latitude (NAD 83): 39° 13' 5.4" 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: Geostationary
Mode: TR - Transmit-Receive
Modulation: Digital
Satellite Arc: 5° W to 149° West Longitude
Azimuth Range: 101.4° to 258.2°
Corresponding Elevation Angles: 5.0° / 5.4°
Antenna Centerline (AGL): 5.18 m / 17.0 ft

Antenna Information

	Receive - V40901	Transmit - V60901
Manufacturer	VERTEX COMMUNICATIONS	VERTEX COMMUNICATIONS
Model	9 KPC	9 KPC
Gain / Diameter	50.1 dBi / 9.0 m	53.5 dBi / 9.0 m
3-dB / 15-dB Beamwidth	0.55° / 1.20°	0.40° / 0.80°
Max Available RF Power (dBW/4 kHz)		7.2
(dBW/MHz)		30.5
Maximum EIRP (dBW/4 kHz)		60.7
(dBW/MHz)		84.0
(dBW)		84.0
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	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	678.4 km / 421.5 mi	520.9 km / 323.6 mi
Precipitation Scatter Contour Radius	620.7 km / 385.7 mi	435.6 km / 270.6 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' 5.4" N
Longitude (NAD 83) 77° 16' 10.9" W
Ground Elevation (AMSL) 140.82 m / 462.0 ft
Antenna Centerline (AGL) 5.18 m / 17.0 ft
Antenna Model VERTEX COMMUNICATIONS 9 KPC
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 7.2 (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	1.47	101.41	-15.90	181.72	-15.50	119.03
5	1.34	96.42	-15.90	185.47	-15.50	122.22
10	1.28	91.43	-15.90	187.42	-15.50	123.89
15	1.63	86.44	-15.90	176.81	-15.50	114.93
20	1.80	81.44	-15.90	171.65	-15.50	110.70
25	1.72	76.45	-15.90	174.07	-15.50	112.68
30	1.89	71.46	-15.90	168.77	-15.50	108.38
35	2.24	66.46	-15.90	157.93	-15.50	100.90
40	2.12	61.47	-14.90	165.71	-15.50	103.31
45	2.20	56.48	-14.20	169.12	-15.50	101.77
50	2.08	51.49	-13.20	176.96	-15.50	104.07
55	2.04	46.50	-12.20	182.93	-15.50	104.92
60	2.55	41.49	-11.20	175.94	-13.69	101.13
65	2.55	36.50	-8.80	187.75	-11.10	110.45
70	2.59	31.51	-6.50	197.96	-9.80	114.44
75	2.59	26.53	-5.90	200.96	-7.42	123.48
80	2.59	21.56	-5.90	200.91	-5.12	132.13
85	2.10	16.67	-5.90	208.97	-4.51	142.84
90	2.11	11.78	-3.68	220.39	-4.55	142.65
95	2.10	7.04	0.06	242.79	-3.50	147.00
100	1.16	4.08	1.94	678.40	-0.66	520.89
105	1.00	5.34	0.76	423.63	-1.84	302.39
110	1.06	9.02	-1.92	265.93	-4.50	174.89
115	1.16	12.65	-4.55	245.18	-4.62	171.08
120	1.40	16.11	-5.90	229.20	-4.63	161.81
125	1.40	19.64	-5.90	229.14	-4.52	162.26
130	1.25	23.17	-5.90	234.08	-5.77	161.25
135	1.16	26.52	-5.90	237.09	-7.41	156.37
140	0.97	29.77	-5.90	244.45	-9.36	154.27
145	0.84	32.79	-7.02	245.80	-10.06	158.35
150	0.88	35.43	-8.16	236.69	-10.67	153.43
155	0.81	37.87	-9.62	232.81	-11.65	153.20
160	0.73	39.99	-10.89	230.61	-12.50	154.00
165	0.65	41.72	-11.24	233.52	-13.88	152.87
170	0.66	42.93	-11.49	231.29	-14.85	148.22
175	0.30	44.04	-11.71	262.13	-15.74	175.90
180	0.00	44.60	-11.82	273.97	-16.18	185.06
185	0.29	44.06	-11.71	264.16	-15.75	177.68

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Coordination Values

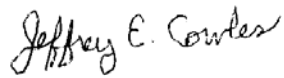
CLARKSBURG, MD

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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: 7.2 (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	0.22	43.36	-11.57	273.10	-15.19	186.89
195	0.00	42.32	-11.36	276.75	-14.36	192.07
200	0.37	40.31	-10.96	258.91	-12.75	181.29
205	0.45	38.18	-9.81	256.65	-11.77	177.33
210	0.83	35.47	-8.18	239.63	-10.69	156.16
215	1.22	32.50	-6.90	229.72	-10.00	143.80
220	1.68	29.24	-5.90	220.44	-9.04	135.09
225	2.21	25.75	-5.90	206.74	-6.95	132.55
230	2.05	22.60	-5.90	210.23	-5.54	139.95
235	1.99	19.24	-5.90	211.70	-4.50	145.49
240	2.59	15.30	-5.90	200.91	-4.56	134.16
245	2.59	11.69	-3.59	209.79	-4.70	133.72
250	2.59	8.01	-0.91	224.35	-3.51	136.89
255	2.51	4.32	1.47	374.96	-1.13	260.12
260	2.51	3.40	2.10	644.31	0.90	492.57
265	2.67	7.32	-0.22	226.51	-3.50	135.37
270	2.91	12.05	-3.95	203.57	-4.61	128.03
275	2.98	16.96	-5.90	192.61	-4.60	126.89
280	3.31	21.89	-5.90	185.29	-5.25	118.39
285	3.55	26.85	-5.90	180.05	-7.61	104.99
290	3.61	31.84	-6.63	174.89	-9.87	100.00
295	3.61	36.83	-9.00	160.79	-11.23	100.00
300	3.61	41.82	-11.26	149.87	-13.96	100.00
305	3.61	46.82	-12.26	145.31	-15.50	100.00
310	3.56	51.82	-13.26	141.87	-15.50	100.00
315	3.42	56.82	-14.26	140.28	-15.50	100.00
320	3.10	61.82	-14.90	143.74	-15.50	100.00
325	2.71	66.82	-15.90	147.36	-15.50	100.00
330	2.47	71.82	-15.90	152.58	-15.50	100.00
335	1.91	76.82	-15.90	166.49	-15.50	107.96
340	1.55	81.81	-15.90	179.18	-15.50	116.90
345	1.49	86.80	-15.90	181.00	-15.50	118.42
350	1.48	91.79	-15.90	181.46	-15.50	118.81
355	1.42	96.78	-15.90	183.00	-15.50	120.12

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.

A handwritten signature in black ink that reads "Jeffrey E. Cowles". The signature is written in a cursive style. To the right of the signature is a vertical red line.

Jeffrey E. Cowles
Principal Frequency Planner
COMSEARCH
19700 Janelia Farm Blvd.
Ashburn, Va. 20147

DATED: July 14, 2010