

Prepared By

COMSEARCH

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

Prepared For

**Intelsat License LLC
Hagerstown, Maryland**

Temporary Transmit/Receive Earth Station
Operation Dates: 01/27/2013 - 03/15/2013

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 January 10, 2013.

Company

AB Services LLC
ADAMS COUNTY EMERGENCY MANAGEMENT AGENCY
AT&T COMMUNICATIONS OF MARYLAND INC
AT&T Communications of Virginia, LLC
AT&T Corp.
Aerbender, LLC
Alltel Communications LLC-E OH WV
Alltel Communications LLC-Southern VA
Alltel Communications of Petersburg Inc
American Electric Power Service Corp.
Appalachia Engineering Services
Appalachian Broadcasting
Atlantic Broadband (Delmar), LLC
Atlantic Broadband (Penn), LLC
Atlantic City Electric Company
Auburn Data Systems, LLC
B20 LLC
BAY BROADBAND COMMUNICATIONS LLC
BLAIR COUNTY 911
Baltimore County of Maryland
Baltimore Gas and Electric Company
Bedford, County of
Believe Wireless, LLC
Berks, County of
Blue Ridge Carriers
CHESTER, COUNTY OF
CLEARFIELD, COUNTY OF
CNG Transmission Corporation
COLLEGE OF SOUTHERN MARYLAND
CROWN COMMUNICATION, INC.

Company (Continued)

Cable of The Carolinas
Cambria, County of
Capital Communications of America
Cellco Partnership - Bridgeville, PA/WV
Cellco Partnership - Southern Virginia
Cellco Partnership- PA Region
Cellco Partnership-Newark-Dallas Verizon
Cellco Partnership-WDC/Baltimore
Cellco Prtnrshp - Phil. Tri-State Rgn
Charles, County of
Commonwealth of Pennsylvania-Radio Proj.
Comprehensive Wireless LLC
Conterra Ultra Broadband, LLC
Converge Towers LLC
Coral Reef Technologies Ltd
Coralinks
County of Frederick
DAUPHIN COUNTY EMERGENCY MANAGEMENT
Delaware Division of Communications
Delmarva Power & Light Company
ECW Wireless, LLC
EG Broadcast Newco Corp
Eastern MLG LLC
Enoch Pratt Free Library
Exelon Generation Company, L.L.C
FELHC, Inc.
Fayette, County of
Federal Communications Commission
Frederick County
Fundamental Broadcasting LLC
Garden State Transmissions
Gloucester, County of
Greene, County of (PA)
Hanover, County of
Hardy Cellular Telephone Company
Harrisonburg-Rockingham ECC
High Voltage Communications LLC
Huntingdon, County of
INDIANA, COUNTY OF
Jefferson Microwave, LLC
Juniata County Emergency Services
Kreider Networks
Kryptic Technologies
Last Mile Inc.
Loudoun County, Virginia
MVC Research. LLC
Maryland Public Broadcasting Commission
Maryland State Highway Administration
Maryland, State of - Dept.of Info & Tech
National Radio Astronomy Observatory

Company (Continued)

New Cingular Wireless PCS LLC -NJ
New Cingular Wireless PCS - Maryland
New Cingular Wireless PCS LLC - DC
New Cingular Wireless PCS LLC - VA
New Cingular Wireless PCS LLC- WV/NC/SC
New Cingular Wireless PCS LLC-DE/NH/RI
New Cingular Wireless PCS, LLC - PA
New Jersey, State of -NJ Transit
Newgig Networks, LLC
Norfolk Southern Railway
PENNSYLVANIA TURNPIKE COMMISSION
PSEG Services Corporation
Peco Energy Company
Penn Service Microwave Co., Inc.
Peoples Natural Gas Company LLC
Pitt Power
Pittsburgh SMSA Limited Partnership
Prince George's County
Prince William, County of
RAPPAHANNOCK ELECTRIC COOPERATIVE
SCTF NET
SHENANDOAH VALLEY ELECTRIC COOPERATIVE
SOMERSET COUNTY
SW Networks
Southern Maryland Electric Cooperative I
St. Mary's County of (MD)
Stafford, County of
State of Maryland, MIEMSS
State of WV DHHR/BPH STECS
Texas Eastern Communications, Inc.
Thought Transmissions, LLC
Turtle Networks 6386
US Cellular Operating Company, LLC (WI)
USCOC of Cumberland, Inc.
USCOC of Virginia RSA #2, Inc.
USCOC of Virginia RSA #3, Inc.
Velox Networks LLC
Verizon Maryland, Inc.
Verizon Wireless (VAW) LLC - Delaware
Verizon Wireless (VAW) LLC - Maryland
Verizon Wireless (VAW) LLC - W/B/V Mkts
Verizon Wireless (VAW) LLC-Pennsylvania
Verizon Wireless LLC - West Virginia
Verizon Wireless VAW LLC-Southern VA
Virginia Broadband, LLC
Virginia Cellular LLC
Virginia Department of State Police
Virginia Electric & Power Company
Virginia PCS Alliance, L.C.
WITF Inc.

Company (Continued)

Washington D.C. SMSA L.P.
Washington Gas Light Company
Washington Suburban Sanitary Commission
Weblin Holdings LLC
Wico, LLC
Wireless Backhaul Infrastructure, LLC
Wireless Internet Work II.
Wireless Internetwork LLC
World Class Wireless LLC
York County Dept of Emergency Services
Zen Networks, Inc
iSignal

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
(703)726-5500 <http://www.comsearch.com>

Date: 01/16/2013
Job Number: 130110COMSJC01

Administrative Information

Status: TEMPORARY (Operation from 01/27/2013 to 03/15/2013)
Call Sign: KA264
Licensee Code: INTELS
Licensee Name: Intelsat License LLC

Site Information

HAGERSTOWN, MARYLAND

Venue Name
Latitude (NAD 83): 39° 35' 54.8" N
Longitude (NAD 83): 77° 45' 21.1" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 167.64 m / 550.0 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: Analog and Digital
Satellite Arc: 6° W to 149° West Longitude
Azimuth Range: 101.9° to 257.8°
Corresponding Elevation Angles: 5.3° / 5.7°
Antenna Centerline (AGL): 5.18 m / 17.0 ft

Antenna Information

Transmit - V60901

Manufacturer: VERTEX COMM.
Model: 9 KPC
Gain / Diameter: 53.5 dBi / 9.0 m
3-dB / 15-dB Beamwidth: 0.40° / 0.80°

Max Available RF Power (dBW/4 kHz): 7.2
(dBW/MHz): 31.2

Maximum EIRP (dBW/4 kHz): 60.7
(dBW/MHz): 84.7
(dBW): 84.0

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%
Short Term: -131.0 dBW/4 kHz 0.0025%

Frequency Information

Transmit 6.1 GHz

Emission / Frequency Range (MHz): 850KFXD / 5925.5
850KFXD / 6424.5

Max Great Circle Coordination Distance: 503.0 km / 312.5 mi
Precipitation Scatter Contour Radius: 431.5 km / 268.1 mi

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Earth Station Data Sheet

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Coordination Values	HAGERSTOWN, MD	
Licensee Name	Intelsat License LLC	
Latitude (NAD 83)	39° 35' 54.8" N	
Longitude (NAD 83)	77° 45' 21.1" W	
Ground Elevation (AMSL)	167.64 m / 550.0 ft	
Antenna Centerline (AGL)	5.18 m / 17.0 ft	
Antenna Model	VERTEX COMMUNICATIONS 9 KPC	
Antenna Mode	Transmit 6.1 GHz	
Interference Objectives:	Long Term	-154.0 dBW/4 kHz 20%
	Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	7.2 (dBW/4 kHz)	

			Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.33	101.82	-15.50	174.36
5	0.26	96.84	-15.50	181.19
10	0.23	91.86	-15.50	184.60
15	0.26	86.88	-15.50	181.57
20	0.25	81.90	-15.50	181.94
25	0.24	76.92	-15.50	183.44
30	0.00	71.95	-15.50	187.69
35	0.23	66.96	-15.50	184.98
40	0.33	61.98	-15.50	174.50
45	0.21	57.02	-15.50	186.87
50	0.00	52.06	-15.50	187.69
55	0.00	47.10	-15.50	187.69
60	0.00	42.14	-14.21	192.63
65	0.00	37.19	-11.38	203.47
70	0.00	32.26	-9.95	207.29
75	0.22	27.31	-7.89	213.61
80	0.21	22.42	-5.47	225.03
85	0.00	17.66	-4.63	229.66
90	0.00	12.98	-4.65	229.57
95	0.00	8.67	-4.17	231.79
100	0.00	5.62	-2.12	502.98
105	0.00	6.15	-2.65	319.15
110	0.00	9.60	-4.50	230.27
115	0.00	13.27	-4.66	229.54
120	0.00	16.89	-4.51	230.23
125	0.00	20.41	-4.67	229.52
130	0.00	23.83	-6.03	223.45
135	0.00	27.11	-7.77	216.07
140	0.00	30.23	-9.55	208.88
145	0.00	33.14	-10.13	206.61
150	0.00	35.82	-10.83	205.56
155	0.00	38.20	-11.78	201.93
160	0.00	40.26	-12.71	198.40
165	0.00	41.93	-14.04	193.29
170	0.00	43.16	-15.03	189.50
175	0.00	43.92	-15.64	187.17
180	0.00	44.18	-15.84	186.37
185	0.00	43.92	-15.64	187.16

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Earth Station Data Sheet

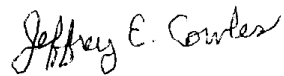
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Max Available RF Power	7.2 (dBW/4 kHz)	

			Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	43.16	-15.03	189.50
195	0.00	41.93	-14.04	193.29
200	0.00	40.26	-12.71	198.40
205	0.00	38.20	-11.78	201.93
210	0.00	35.81	-10.83	205.57
215	0.30	32.90	-10.08	198.72
220	0.43	29.90	-9.44	188.98
225	0.54	26.71	-7.53	188.33
230	0.41	23.54	-5.92	205.79
235	0.32	20.19	-4.58	218.21
240	0.38	16.63	-4.54	212.22
245	0.51	12.93	-4.62	202.38
250	0.47	9.28	-4.50	205.73
255	0.52	5.87	-2.37	316.97
260	0.57	5.57	-2.07	477.56
265	0.58	8.84	-4.34	200.10
270	0.52	13.25	-4.51	202.51
275	0.50	17.96	-4.67	202.58
280	0.40	22.81	-5.62	205.99
285	0.27	27.71	-8.13	207.67
290	0.21	32.63	-10.03	205.83
295	0.22	37.56	-11.52	201.37
300	0.22	42.50	-14.50	189.25
305	0.34	47.45	-15.50	173.43
310	0.40	52.40	-15.50	165.12
315	0.30	57.38	-15.50	177.15
320	0.22	62.35	-15.50	186.03
325	0.00	67.33	-15.50	187.69
330	0.24	72.30	-15.50	183.43
335	0.37	77.27	-15.50	169.38
340	0.36	82.25	-15.50	171.05
345	0.32	87.23	-15.50	175.11
350	0.27	92.21	-15.50	180.76
355	0.36	97.18	-15.50	170.30

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
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DATED: January 16, 2013