

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-Only Earth Station
Operation Dates: 07/20/2012 - 09/20/2012

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 July 9, 2012.

Company

ADAMS COUNTY EMERGENCY MANAGEMENT AGENCY
AMERICAN ELECTRIC POWER SERVICE CORP.
ANNE ARUNDEL, COUNTY OF
ATLANTIC, COUNTY OF
Aerbender, LLC
Albermarle, County of, Virginia
Allegheny County
Allegheny Power Service Corporation
Alltel Communications LLC-Southern VA
Appalachia Engineering Services
Appalachian Broadcasting
Atlantic City Electric Company
Auburn Data Systems, LLC
B20 LLC
BAY BROADBAND COMMUNICATIONS LLC
Baltimore County of Maryland
Baltimore Gas and Electric Company
Bedford, County of
Berks, County of
CAMDEN COUNTY
CARROLL COUNTY
CBS Communications Services
CENTRE COUNTY
CHESTER, COUNTY OF
CLEARFIELD, COUNTY OF
CLINTON COUNTY
CNG Transmission Corporation
COLUMBIA COUNTY
CTAB Holdings LLC
Calvert Cliffs Nuclear Power Plant
Calvert County Government

Company (Continued)

Cameron County Office of Emergency Servi
Cellco Partnership - Bridgeville, PA/WV
Cellco Partnership - Southern Virginia
Cellco Prtnrshp - Phil. Tri-State Rgn
Chesterfield, County of
Columbia Gas Transmission Corporation
Commonwealth of Pennsylvania
Commonwealth of Pennsylvania-Radio Proj.
Comprehensive Wireless LLC
Conectiv Communications, Inc.
Coralinks
County of Burlington, Public Safety Cntr
County of Culpeper
County of Louisa, VA
County of Nelson
County of Salem
County of Stafford
Cumberland, County of
DAUPHIN COUNTY EMERGENCY MANAGEMENT
DELAWARE STATE - DTI
Delaware County (PA) Emergency Services
Delmarva Power & Light Company
EASTERN PENNSYLVANIA EMS COUNCIL
ECW Wireless, LLC
EG Broadcast Newco Corp
Eastern MLG LLC
Egan LLC
Enoch Pratt Free Library
Equitable Gas Company
Exelon Generation Company, L.L.C
FELHC, Inc.
Franklin County Dept. of Emergency Servi
Fundamental Broadcasting LLC
George Washington University
Gloucester, County of
Hanover, County of
Hardy Cellular Telephone Company
Harrison County Emergency Services
Harrisonburg-Rockingham ECC
High Voltage Communications LLC
Howard, County of
INDIANA, COUNTY OF
JEFFERSON COUNTY OF PENNSYLVANIA
Jefferson Microwave, LLC
Kreider Networks
Kryptic Technologies
LACKAWANNA COMMUNICATIONS
LANCASTER COUNTY OF
LEBANON COUNTY OF
LYCOMING COUNTY

Company (Continued)

Last Mile Inc.
 Loudoun, County of
 M&T Bank
 MAHANTANGO MOUNTAIN MICROWAVE
 MARYLAND EMERG MANAGEMENT AGENCY COMM
 MARYLAND STATE DEPT OF GENERAL SERVICES
 MARYLAND, STATE OF - MDOT - MTA
 MONTGOMERY COUNTY OF
 MVC Research. LLC
 Maryland Public Broadcasting Commission
 Maryland State Highway Administration
 Maryland, State of - DNR
 Maryland, State of - Dept.of Info & Tech
 Mifflin County
 Montgomery, County of
 Morgan, County of
 National Radio Astronomy Observatory
 New Cingular Wireless PCS - Maryland
 New Cingular Wireless PCS LLC - Ohio
 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 Police
 New Jersey Turnpike Authority-Pkwy Div
 New Jersey, State of -NJ Transit
 Norfolk Southern Railway
 Northumberland, County of
 OHIO POWER COMPANY
 PA Communications
 PENNSYLVANIA MICROWAVE NETWORK INC.
 PENNSYLVANIA TURNPIKE COMMISSION
 PSEG Services Corporation
 Passaic Valley Microwave
 Peco Energy Company
 Pennsylvania Commonwealth State Police
 Peoples Natural Gas Company
 Pittsburgh SMSA Limited Partnership
 Potomac Electric Power Company
 Prince George's County
 Prince William, County of
 RAPPAHANNOCK ELECTRIC COOPERATIVE
 RCYM Holdings LLC
 SCHUYLKILL, COUNTY OF
 SCS Networks
 SCTF NET
 SECOM NET
 SOUTHEASTERN PENNSYLVANIA TRANSIT AUTH
 SPOTSYLVANIA COUNTY
 SW Networks
 San Juan Wireless
 Snyder, County of

Company (Continued)

St. Mary's County of
State of Maryland, MIEMSS
State of WV DHHR/BPH STECS
Texas Eastern Communications, Inc.
Thought Transmissions, LLC
Transcontinental Gas Pipeline Corp.
Triangle Communications, Inc.
Turtle Networks 6384
Turtle Networks 6386
Turtle Networks 6444
US Cellular Operating Company, LLC (WI)
USCOC of Cumberland, Inc.
USCOC of Virginia RSA #3, Inc.
Verizon Wireless VAW LLC-Southern VA
Virginia Cellular LLC
Virginia Department of State Police
Virginia Electric & Power Company
Virginia PCS Alliance, L.C.
WASHINGTON COUNTY E-911
WASHINGTON SUBURBAN SANITARY COMMISSION
Warrenton Fauquier Joint Communications
Washington Gas Light Company
Weblin Holdings LLC
Wico, LLC
Wireless Backhaul Infrastructure, LLC
Wireless Internetwork LLC
World Class Wireless LLC
York County Dept of Emergency Services
Zango LLC
Zen Networks, Inc
iSignal
3G Wireless, LLC
ABC, INC.
ABC, Inc. - WPVI-TV
AERIAL VIDEO SYSTEMS
ALASCOM, INC.
AT&T California
American Broadcasting Companies, Inc.
Ascent Media Network Services, LLC
BALTIMORE (WNUV-TV) LICENSEE, INC.
BON-TELE NETWORK INC
BROADCAST COMMUNICATIONS INC
Bellsouth Telecommunications, Inc.
BFI Licenses, LLC
Borgeson, Tom R.
Broadcast Sports Inc.
C-SPAN
CATHOLIC BROADCASTING OF SCRANTON, INC
CBS Broadcasting Inc
CBS TELEVISION LICENSES LLC
CNG Communications, Inc.

Company (Continued)

COMMONWEALTH PUBLIC BROADCASTING
CP Communications PA. LLC
Carolina Telephone and Telegraph Co
Casper, John
CenturyTel of the Southwest, Inc.
Chicago Comnet Corp
Cincinnati Bell Wireless LLC
Citywide News Network, Inc.
Cohen, Elana
Cornerstone Television, Inc/WPCB-TV
Cowboys Stadium LP
DCI II, INC.
Delmarva Broadcast Service
Detroit Free Press, Inc.
Direct Broadcast Services, Inc.
ENGLE BROADCASTING
ENTRAVISION HOLDINGS, LLC
Fishman Brothers Enterprises
FOX TELEVISION STATIONS, INC.
FOX TELEVISION STATIONS, INC.
Federal Communications Commission
GOODYEAR TIRE AND RUBBER COMPANY
GRAY TELEVISION LICENSEE, INC (WHSV)
GSN New, Inc
HARRISBURG TELEVISION, INC.
HF Enterprises, Inc
Hallco Unlimited, Inc.
Hawaiian Telcom, Inc.
Heiden Mr., William
INDIANA BELL TELEPHONE COMPANY INC
Illinois Bell Telephone Company
Information & Display Systems, Inc.
Information Super Station, LLC
International Communications Group, Inc.
JONES BROADCASTING, LLC
Kentucky RSA #3 Cellular General Partner
Kentucky RSA #4 Cellular General Partner
LENFEST BROADCASTING, LLC
MARANATHA BROADCASTING COMPANY
MEDIA GENERAL COMMUNICATIONS HOLDINGS, L
MERCURY COMMUNICATIONS
Metro Networks Communications, Inc
Metrosat Communications Inc.
Michigan Bell Telephone Company
Moreen, Steven K
NBC TELEMUNDO LICENSE LLC
NEW ENGLAND DIGITAL DISTRIBUTION, INC.
NEW ENGLAND SATELLITE SYSTEMS INC
NEW JERSEY PUBLIC BROADCASTING AUTHORITY
NEXSTAR BROADCASTING, INC.
NRJ TV Philly License Co, LLC
NSM Surveillance

Company (Continued)

National Cable Satellite Corporation
National Radio Astronomy Observatory
Navajo Communications Company
Newport Television LLC
NorthWest Suburbs Community Access Corp
Ohio Bell Telephone Company
On Scene Video Production
Onboard Images
PALM TELEVISION, L.P.
Peak Media of PA Licensee, LLC
Penn Service Microwave Co., Inc.
Plateau Telecommunications, Inc.
Plum TV, LLC
Production & Satellite Services, Inc.
Public Television Communications Center
QUICK LINK CONNECTIONS INC
QWEST CORPORATION
RCC Minnesota Inc. - MN NE ND SD
REMOTE FACILITIES CONSULTING SERVICES
RF Central, LLC
RF Film, Inc
RF Technology, LLC
Radiofone, Inc.
Randy Hermes Production
Regulus Media Services, Inc.
Remote Broadcasts, Inc.
SHENANDOAH VALLEY EDUCATIONAL TV CORP
SIGNAL ABOVE LLC
Scripps Media, Inc. - WMAR TV
Southwestern Bell Telephone L.P.
Speedshotz, Inc
State of WV DHHR/BPH STECS
TCCSA, Inc -Trinity Broadcasting Network
THE PENNSYLVANIA STATE UNIVERSITY
TRIBUNE TELEVISION COMPANY
Total RF Marketing Inc
Tribune Television Company
UNIVISION PHILADELPHIA LLC
Unisat, Inc.
United Telephone - Southeast
VERIZON SOUTH INC.
VIRGINIA BROADCASTING CORPORATION
Verizon California Inc.
Verizon Maryland, Inc.
Verizon New England Inc.
Verizon New Jersey, Inc.
Verizon New York, Inc.
Verizon North Inc.
Verizon Northwest Inc.
Verizon Pennsylvania, Inc.
Verizon Virginia, Inc.
Verizon Washington DC, Inc.

Company (Continued)

Village Video Productions Inc
Vyvx, LLC
WBAL HEARST-ARGYLE TV, INC. (CA CORP.)
WBOC, INC.
WCWB Licensee L.L.C.
WEST VIRGINIA EDUCATIONAL BROADCASTING
WEST VIRGINIA MEDIA HOLDINGS, LLC
WGAL Hearst- Argyle Television, Inc
WHYY, INC.
WITF Inc.
WITHERS BROADCASTING CO OF CLARKSBURG
WITHERS BROADCASTING COMPANY
WPGH LICENSEE, LLC
WPXI-TV HOLDINGS, INC
WTAE Hearst Television Inc.
WUPV LICENSE SUBSIDIARY, LLC
Westar Satellite Services LP
Western Pacific Broadcasting, LLC
Western Technical Services
Wexler Video, Inc.
Winged Vision
Wisconsin Bell, Inc.
Wolfe Air Aviation

Society of Broadcast Engineers:

District of Columbia

Maryland – Baltimore

Pennsylvania – Allentown
Central PA
North Central
Northeast
South Central
Western

New York – New York City

West Virginia – Entire State

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: 07/12/2012
Job Number: 120709COMSJC02

Administrative Information

Status: TEMPORARY (Operation from 07/20/2012 to 09/20/2012)
Call Sign: TEMP09
Licensee Code: INTELS
Licensee Name: Intelsat License LLC

Site Information HAGERSTOWN, MARYLAND

Venue Name
Latitude (NAD 83): 39° 35' 54.0" N
Longitude (NAD 83): 77° 45' 35.0" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 173.74 m / 570.0 ft

Link Information

Satellite Type: Geostationary
Mode: TO - Transmit-Only
Modulation: 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): 5.79 m / 19.0 ft

Antenna Information

Manufacturer: TIW
Model: 9.0 Meter
Gain / Diameter: 53.5 dBi / 9.0 m
3-dB / 15-dB Beamwidth: 0.36° / 0.67°

Transmit

Max Available RF Power	(dBW/4 kHz)	7.2
	(dBW/MHz)	31.2
Maximum EIRP	(dBW/4 kHz)	60.7
	(dBW/MHz)	84.0
	(dBW)	84.0
Interference Objectives:	Long Term	-154.0 dBW/4 kHz 20%
	Short Term	-131.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz):
850KFXD / 6723.75
850KFXD / 7026.25

Transmit 7.0 GHz

Max Great Circle Coordination Distance: 507.1 km / 315.0 mi
Precipitation Scatter Contour Radius: 431.6 km / 268.1 mi

COMSEARCH Earth Station Data Sheet

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

Coordination Values		HAGERSTOWN, MD	
Licensee Name		Intelsat License LLC	
Latitude (NAD 83)		39° 35' 54.0" N	
Longitude (NAD 83)		77° 45' 35.0" W	
Ground Elevation (AMSL)		173.74 m / 570.0 ft	
Antenna Centerline (AGL)		5.79 m / 19.0 ft	
Antenna Model		TIW 9 Meter	
Antenna Mode		Transmit 7.0 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)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 7.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	101.81	-10.00	207.10
5	0.00	96.84	-10.00	207.10
10	0.00	91.86	-10.00	207.10
15	0.00	86.88	-10.00	207.10
20	0.00	81.90	-10.00	207.10
25	0.00	76.92	-10.00	207.10
30	0.00	71.95	-10.00	207.10
35	0.00	66.97	-10.00	207.10
40	0.00	62.00	-10.00	207.10
45	0.00	57.03	-10.00	207.10
50	0.00	52.06	-10.00	207.10
55	0.00	47.09	-9.82	207.79
60	0.00	42.14	-8.62	212.59
65	0.00	37.19	-7.26	218.19
70	0.00	32.26	-5.72	224.84
75	0.00	27.34	-3.92	232.91
80	0.00	22.47	-1.79	243.02
85	0.00	17.65	0.83	255.60
90	0.00	12.98	4.17	274.11
95	0.00	8.66	8.56	301.31
100	0.00	5.61	13.27	507.05
105	0.00	6.15	12.28	371.03
110	0.00	9.60	7.45	294.11
115	0.00	13.27	3.93	272.70
120	0.00	16.89	1.31	258.14
125	0.00	20.41	-0.75	248.15
130	0.00	23.83	-2.43	239.94
135	0.00	27.11	-3.83	233.34
140	0.00	30.23	-5.01	227.97
145	0.00	33.14	-6.01	223.55
150	0.00	35.82	-6.85	219.92
155	0.00	38.20	-7.55	216.96
160	0.00	40.26	-8.12	214.61
165	0.00	41.93	-8.56	212.81
170	0.00	43.16	-8.88	211.54
175	0.00	43.92	-9.07	210.78
180	0.00	44.18	-9.13	210.53
185	0.00	43.92	-9.07	210.78


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

Coordination Values		HAGERSTOWN, MD	
Licensee Name		Intelsat License LLC	
Latitude (NAD 83)		39° 35' 54.0" N	
Longitude (NAD 83)		77° 45' 35.0" W	
Ground Elevation (AMSL)		173.74 m / 570.0 ft	
Antenna Centerline (AGL)		5.79 m / 19.0 ft	
Antenna Model		TIW 9 Meter	
Antenna Mode		Transmit 7.0 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)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 7.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	43.16	-8.88	211.54
195	0.00	41.93	-8.56	212.81
200	0.00	40.26	-8.12	214.61
205	0.00	38.20	-7.55	216.96
210	0.00	35.81	-6.85	219.92
215	0.00	33.14	-6.01	223.55
220	0.00	30.22	-5.01	227.97
225	0.00	27.11	-3.83	233.34
230	0.00	23.83	-2.43	239.93
235	0.00	20.42	-0.75	248.14
240	0.00	16.89	1.31	258.16
245	0.00	13.28	3.92	272.68
250	0.00	9.59	7.46	294.19
255	0.00	6.33	11.96	378.50
260	0.00	6.11	12.35	489.18
265	0.00	9.18	7.93	297.19
270	0.00	13.46	3.77	271.82
275	0.00	18.11	0.55	254.16
280	0.00	22.90	-2.00	242.02
285	0.00	27.76	-4.09	232.16
290	0.00	32.66	-5.85	224.24
295	0.00	37.59	-7.38	217.70
300	0.00	42.53	-8.72	212.18
305	0.00	47.48	-9.91	207.44
310	0.00	52.44	-10.00	207.10
315	0.00	57.40	-10.00	207.10
320	0.00	62.37	-10.00	207.10
325	0.00	67.34	-10.00	207.10
330	0.00	72.31	-10.00	207.10
335	0.00	77.28	-10.00	207.10
340	0.00	82.26	-10.00	207.10
345	0.00	87.23	-10.00	207.10
350	0.00	92.21	-10.00	207.10
355	0.00	97.18	-10.00	207.10

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
Engineer III, Telecommunications
COMSEARCH
19700 Janelia Farm Blvd.
Ashburn, Va. 20147

DATED: July 12, 2012