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: 04/14/2014 - 08/01/2014

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 February 14 and 26, 2014.

Company

256Q Networks

AB Services LLC

AT&T COMMUNICATIONS OF MARYLAND INC

AT&T Communications of Virginia, LLC

AT&T Corporation

AWC Networks

Adams County Department of Emergency Svc

Alltel Communications LLC - Ohio Region

Alltel Communications LLC - Western PA

Alltel Communications LLC-E OH WV

Alltel Communications LLC-Southern VA

Alltel Communications LLC-TriState Rgn

Alltel Communications of Petersburg Inc

Appalachia Engineering Services

Appalachian Broadcasting

Appalachian Power Company

Atlantic Broadband (Penn), LLC

Atlantic City Electric Company

Auburn Data Systems, LLC

B20 LLC

BAY BROADBAND COMMUNICATIONS LLC

BEAVER SPRINGS FAITH BAPTIST CHURCH, INC

BFI Licenses, LLC

BLAIR COUNTY 911

Baltimore County of Maryland

Baltimore Gas and Electric Company

Bedford, County of

Believe Wireless, LLC

Berks County Department of Emergency Ser

Blue Ridge Carriers

CARROLL, COUNTY OF

CLEARFIELD, COUNTY OF

CNG Transmission Corporation

CROWN COMMUNICATION, INC.

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

Centre, County of

Charles, County of

Chester, County of

China Cat Productions LLC

Clinton, County of

Columbia Gas Transmission Corporation

Commonwealth of Pennsylvania

Commonwealth of Pennsylvania-Radio Proj.

Comprehensive Wireless LLC

Conterra Ultra Broadband, LLC

Converge Towers LLC

Coral Reef Technologies Ltd

Coralinks

County of Camden

County of Fayette

County of Frederick

CP Communications. LLC

DAUPHIN COUNTY EMERGENCY MANAGEMENT

Delaware County (PA) Emergency Services

Delaware Division of Communications

Delmarva Power & Light Company

ECW Wireless, LLC

EG Broadcast Newco Corp

Eastern MLG LLC

Electric Railroad, LLC

Enoch Pratt Free Library

Exelon Generation Company, L.L.C

FELHC, Inc.

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 COUNTY OF PENNSYLVANIA

Jefferson Microwave, LLC

Juniata County Emergency Services

KENTUCKY POWER COMPANY

King and Queen County

Kryptic Technologies

Lancaster County of

Last Mile Inc.

Loudoun, County of

MGW Networks, LLC

MVC Research, LLC

Maryland Public Broadcasting Commission

Maryland State Highway Administration

Maryland, State of - Dept.of Info & Tech

Metrosat Communications Inc.

Mifflin Mobilecom

National Tower Company

New Cingular Wireless PCS LLC -NJ

New Cingular Wireless PCS - Maryland

New Cingular Wireless PCS LLC - DC

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 Turnpike Authority-Pkwy Div

New Jersey, State of -NJ Transit

Newgig Networks, LLC

Norfolk Southern Railway

OHIO VALLEY ELECTRÍC COMPANY

Old Dominion LLC

PA Communications

PEG Bandwidth

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

Radio One Inc

RF Technology, LLC

Rural Broadband Network Services LLC

SCS Networks

SCTF NET

SHENANDOAH VALLEY ELECTRIC COOPERATIVE

SOMERSET COUNTY

SW Networks

Southern Maryland Electric Cooperative I

Spotsylvania, County of

St. Mary's County of (MD)

Stafford, County of

Standard Backhaul Communications LLC

State of Maryland, MIEMSS

TRF SERVICES LLC

Texas Eastern Communications, LLC

Thought Transmissions, LLC

Turtle Networks 6559

US Cellular Operating Company, LLC (WI)

USCOC of Cumberland, Inc.

Velox Networks LLC

Verizon Delaware Inc

Verizon Maryland, Inc.

Verizon Wireless (VAW) LLC - Delaware/NJ

Verizon Wireless (VAW) LLC - Maryland

Verizon Wireless (VAW) LLC-Pennsylvania

Verizon Wireless VAW LLC - West Virginia

Verizon Wireless VAW LLC-Southern VA

Virginia RSA 5 Limited Partnership

Virginia Broadband, LLC

Virginia Cellular LLC

Virginia Department of State Police

Virginia Electric & Power Company

Virginia PCS Alliance, L.C.

WHEELING POWER COMPANY

WITF Inc.

WV DHHR BPH, Office of EMS, Com. Div.

Washington D.C. SMSA L.P.

Washington Gas Light Company

Washington Suburban Sanitary Commission

Webline Holdings LLC

Wireless Internetwork LLC

World Class Wireless LLC

York County Dept of Emergency Services

Zen Networks, Inc.

iSignal

ANNE ARUNDEL, COUNTY OF

ATLANTIC, COUNTY OF

AWC Networks

Albermarle, County of, Virginia

Allegheny Power Service Corporation

Alltel Communications LLC-Southern VA

CBS Communications Services Inc.

COLUMBIA COUNTY

CTAB Holdings LLC

Calvert Cliffs Nuclear Power Plant

Calvert, County of

Cameron County Office of Emergency Servi

Capital Communications of America

Cellco Partnership - Bridgeville, PA/WV

Cellco Partnership - Southern Virginia

Cellco Prtnrshp - Phil. Tri-State Rgn

Chesterfield, County of

Conectiv Communications, Inc.

County of Culpeper

County of Louisa, VA

County of Lycoming

County of Salem

Cumberland, County of

Eastern Pennsylvania EMS Council

Egan LLC

Equitable Gas Company

Franklin County Dept. of Emergency Servi

George Washington University

Harrison County Emergency Services

Howard, County of

Kentucky Commonwealth of KY Emerg Warnin

LEBANON COUNTY OF

M&T Bank

MARYLAND EMERG MANAGEMENT AGENCY COMM

MARYLAND STATE DEPT OF GENERAL SERVICES

Maryland, State Of - MDOT - MTA

Maryland, State of - DNR

Mifflin County

Montgomery County Of

Montgomery, County of

Morgan, County of

Nelson, County of

New Jersey State Police

Northumberland, County of

Pennsylvania Commonwealth State Police

Pennsylvania Sports Entertainment Netwo.

Peoples TWP LLC

Potomac Electric Power Company

RCYM Holdings LLC

Redi-Call Communications Company

SCHUYLKILL, COUNTY OF

SECOM NET

SOUTHEAST OHIO EMERGENCY MEDICAL

SOUTHEASTERN PENNSYLVANIA TRANSIT AUTH

Snyder, County of

Transcontinental Gas Pipeline Corp.

Triangle Communications, Inc.

USCOC of Virginia RSA #3, Inc.

WASHINGTON COUNTY E-911

Warrenton Fauquier Joint Communications

Webline Holdings LLC

Westmoreland County Public Safety

Wireless Internetwork LLC

World Class Wireless LLC

Zango LLC

3G Wireless, LLC

ABC, Inc. - WPVI-TV

AERIAL VIDEO SYSTEMS

ANNE ARUNDEL, COUNTY OF

AT&T California

Alascom Inc

Ascent Media Network Services, LLC

Bellsouth Telecommunications, Inc.

Borgeson, Tom R.

Broadcast Sports Inc.

C-SPAN

CBS Broadcasting Inc

CBS TELEVISION LICENSES 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

County of Fairfax, Virginia

Cowboys Stadium LP

DCI II, INC.

Direct Broadcast Services, Inc.

Fox Television Stations, Inc.

GOODYEAR TIRE AND RUBBER COMPANY

GSN New, Inc

Global Microwave Systems Inc

HF Enterprises, Inc.

Hallco Unlimited, Inc.

Hawaiian Telcom, Inc.

Heiden, William

Illinois Bell Telephone Company

Indiana Bell Telephone Company

Information & Display Systems, Inc.

Information Super Station, LLC

International Communications Group, Inc.

Kentucky RSA #3 Cellular General Partner

Kentucky RSA #4 Cellular General Partner

MERCURY COMMUNICATIONS

Metro Networks Communications, Inc.

Michigan Bell Telephone Company

Moreen, Steven K

NBC Telemundo License Co.

NBC Telemundo License LLC

NEW ENGLAND DIGITAL DISTRIBUTION, INC.

NEW ENGLAND SATELLITE SYSTEMS INC

NSM Surveillance

National Cable Satellite Corporation

Navajo Communications Company

NorthWest Suburbs Community Access Corp

Ohio Bell Telephone Company

On Scene Video Production

Onboard Images

Pacific Television Center

Philadelphia, City of

Plateau Telecommunications, Inc.

Plum TV. LLC

Production & Satellite Services, Inc.

Proxy Aviation

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

Radiofone, Inc.

Randy Hermes Production

Regulus Media Services, Inc.

Remote Broadcasts, Inc.

Southwestern Bell Telephone L.P.

Speedshotz, Inc.

Texas A&M University, Athletic Department

The City of Baltimore, Police Department

Total RF Marketing Inc

Unisat, Inc.

United Telephone - Southeast

VERIZON SOUTH INC.

Verizon California 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.

Village Video Productions Inc

Vyvx, LLC

Westar Satellite Services LP

Western Technical Services

Wexler Video, Inc.

Winged Vision Inc

Wisconsin Bell. Inc.

Wolfe Air Aviation

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: 03/10/2014

Job Number: 140214COMSJC04

Administrative Information

Status TEMPORARY (Operation from 04/14/2014 to 08/01/2014)

Call Sign TEMP08 Licensee Code **INTELS**

Licensee Name Intelsat License LLC

Site Information HAGERSTOWN, MARYLAND

Venue Name

Latitude (NAD 83) 39° 35' 54.7" N Longitude (NAD 83) 77° 45' 35.3" W

Climate Zone Α Rain Zone 2

Ground Elevation (AMSL) 171.3 m / 562.0 ft

Link Information

Satellite Type Geostationary Mode TO - Transmit-Only Modulation Analog and Digital

6° W to 149° West Longitude Satellite Arc

101.9° to 257.8° Azimuth Range Corresponding Elevation Angles 5.3° / 5.7° Antenna Centerline (AGL) 12.5 m / 41.0 ft

Antenna Information Transmit Manufacturer TIW

Model 19.0 Meter Gain / Diameter 59.1 dBi / 19.0 m 3-dB / 15-dB Beamwidth 0.20° / 0.40°

Max Available RF Power (dBW/4 kHz) 5.6

29.6 (dBW/MHz)

Maximum EIRP 64.7 (dBW/4 kHz)

88.7 (dBW/MHz) (dBW) 0.88

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

> Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information Transmit 6.1 GHz

Emission / Frequency Range (MHz) 850KFXD / 6425.0 850KFXD / 6429.5

Max Great Circle Coordination Distance 552.8 km / 343.4 mi Precipitation Scatter Contour Radius 0.0 km / 0.0 mi

COMSEARCH

Earth Station Data Sheet

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

Coordination Values
Licensee Name
Licensee Name
Latitude (NAD 83)
Longitude (NAD 83)
Ground Elevation (AMSL)
Antenna Centerline (AGL)
Antenna Model

HAGERSTOWN, MD
Intelsat License LLC
39° 35' 54.7" N
77° 45' 35.3" W
171.3 m / 562.0 ft
12.5 m / 41.0 ft
TIW 19.0 Meter

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 5.6 (dBW/4 kHz)

Transmit 6.1 GHz

	Horizon	Antenna	Horizon	Coordination	
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)	
0	0.00	101.81	-10.00	202.62	
5	0.00	96.84	-10.00	202.62	
10	0.00	91.86	-10.00	202.62	
15	0.00	86.88	-10.00	202.62	
20	0.00	81.90	-10.00	202.62	
25	0.00	76.92	-10.00	202.62	
30	0.00	71.95	-10.00	202.62	
35	0.00	66.97	-10.00	202.62	
40	0.00	62.00	-10.00	202.62	
45	0.00	57.03	-10.00	202.62	
50	0.00	52.06	-10.00	202.62	
55	0.00	47.09	-9.82	203.29	
60	0.00	42.14	-8.62	206.27	
65	0.00	37.19	-7.26	211.60	
70	0.00	32.26	-5.72	217.96	
75	0.00	27.34	-3.92	225.69	
80	0.00	22.47	-1.79	235.39	
85	0.00	17.65	0.83	248.04	
90	0.00	12.98	4.17	265.01	
95	0.00	8.66	8.56	291.02	
100	0.00	5.61	13.27	552.79	
105	0.00	6.15	12.28	385.58	
110	0.00	9.60	7.45	284.12	
115	0.00	13.27	3.93	263.67	
120	0.00	16.89	1.31	249.82	
125	0.00	20.41	-0.75	240.32	
130	0.00	23.83	-2.43	232.43	
135	0.00	27.11	-3.83	226.10	
140	0.00	30.23	-5.01	220.95	
145	0.00	33.14	-6.01	216.73	
150	0.00	35.82	-6.85	213.26	
155	0.00	38.20	-7.55	210.44	
160	0.00	40.26	-8.12	208.19	
165	0.00	41.93	-8.56	206.48	
170	0.00	43.16	-8.88	205.27	
175	0.00	43.92	-9.07	204.55	
180	0.00	44.18	-9.13	205.93	
185	0.00	43.92	-9.07	204.54	

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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' 54.7" N 77° 45' 35.3" W Longitude (NAD 83) Ground Elevation (AMSL) 171.3 m / 562.0 ft Antenna Centerline (AGL) 12.5 m / 41.0 ft Antenna Model TIW 19.0 Meter

Antenna Mode Transmit 6.1 GHz

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

Short Term

Max Available RF Power 5.6 (dBW/4 kHz)

Transmit 6.1 GI	Hъ	
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	Horizon	Antenna	Horizon	Coordination
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)
190	0.00	43.16	-8.88	205.27
195	0.00	41.93	-8.56	206.48
200	0.00	40.26	-8.12	208.19
205	0.00	38.20	-7.55	210.44
210	0.00	35.81	-6.85	213.26
215	0.00	33.14	-6.01	216.73
220	0.00	30.22	-5.01	220.96
225	0.00	27.11	-3.83	226.10
230	0.00	23.83	-2.43	232.42
235	0.00	20.42	-0.75	240.31
240	0.00	16.89	1.31	249.84
245	0.00	13.28	3.92	263.65
250	0.00	9.59	7.46	284.19
255	0.00	6.33	11.96	396.43
260	0.00	6.11	12.35	531.75
265	0.00	9.18	7.93	287.06
270	0.00	13.46	3.77	262.82
275	0.00	18.11	0.55	246.67
280	0.00	22.90	-2.00	234.42
285	0.00	27.76	-4.09	224.96
290	0.00	32.66	-5.85	217.39
295	0.00	37.59	-7.38	211.14
300	0.00	42.53	-8.72	205.88
305	0.00	47.48	-9.91	202.95
310	0.00	52.44	-10.00	202.62
315	0.00	57.40	-10.00	202.62
320	0.00	62.37	-10.00	202.62
325	0.00	67.34	-10.00	202.62
330	0.00	72.31	-10.00	202.62
335	0.00	77.28	-10.00	202.62
340	0.00	82.26	-10.00	202.62
345	0.00	87.23	-10.00	202.62
350	0.00	92.21	-10.00	202.62
355	0.00	97.18	-10.00	202.62
	0.00	35		

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

Jeffrey E. Cowles

Engineer III, Telecommunications

COMSEARCH

19700 Janelia Farm Blvd. Ashburn, Virginia 20147

DATED: March 10, 2014