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: 06/26/2014 - 10/01/2014

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 April 13, 2014.

Company

256Q Networks

AWC Networks

Adams County Department of Emergency Svc

Affiniti PA, LLC

Albermarle, County of, Virginia

Allegheny Power Service Corporation

Alltel Communications LLC-Southern VA

Anne Arundel, County of

Appalachia Engineering Services

Appalachian Broadcasting

Appalachian Power Company

Atlantic City Electric Company

Atlantic, County of

Auburn Data Systems, LLC

B₂₀ LLC

BAY BROADBAND COMMUNICATIONS LLC

Baltimore County of Maryland

Baltimore Gas and Electric Company

Bedford, County of

Berks County Department of Emergency Service

BFI Licenses, LLC

Blue Ridge Carriers

CBS Communications Services Inc.

CLEARFIELD, COUNTY OF

CNG Transmission Corporation

CTAB Holdings LLC

Calvert Cliffs Nuclear Power Plant

Calvert, County of

Cameron County Office of Emergency Servi

Capital Communications of America

Carroll, County of

Cellco Partnership - Bridgeville, PA/WV

Cellco Partnership - Southern Virginia

Cellco Prtnrshp - Phil. Tri-State Rgn

Centre, County of

Chester, County of

Chesterfield, County of

Clinton, County of

Columbia Gas Transmission Corporation

Columbia, County

Commonwealth of Pennsylvania

Commonwealth of Pennsylvania-Radio Proj.

Comprehensive Wireless LLC

Conectiv Communications, Inc.

Converge Towers LLC

Coralinks

County of Camden

County of Culpeper

County of Fayette

County of Louisa, VA

County of Lycoming

County of Salem

Cumberland, County of

DAUPHIN COUNTY EMERGENCY MANAGEMENT

Delaware County (PA) Emergency Services

Delaware Division of Communications

Delmarva Power and Light Company

ECW Wireless, LLC

EG Broadcast Newco Corp

Eastern MLG LLC

Eastern Pennsylvania EMS Council

Egan LLC

Enoch Pratt Free Library

Equitable Gas Company

Exelon Generation Company, LLC

FELHC, Inc.

Federal Communications Commission

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

Kentucky Commonwealth of KY Emerg Warnin

Kryptic Technologies

LEBANON COUNTY OF

Lancaster County-Wide Communications

Loudoun, County of

M&T Bank

MARYLAND EMERG MANAGEMENT AGENCY COMM

MARYLAND STATE DEPT OF GENERAL SERVICES

MetroSat Communications, Inc.

MVC Research. LLC

Maryland Public Broadcasting Commission

Maryland State Highway Administration

Maryland, State Of - MDOT - MTA

Maryland, State of - DNR

Maryland, State of - Dept.of Info & Tech

Mifflin County

Mifflin Mobilecom

Montgomery County Of

Montgomery, County of

Morgan, County of

National Tower Company LLC

Nelson, County of

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 VALLEY ELECTRIC COMPANY

Old Dominion LLC

PA Communications

PEG Bandwidth, LLC

PENNSYLVANIA TURNPIKE COMMISSION

PSEG Services Corporation

Peco Energy Company

Pennsylvania Commonwealth State Police

Pennsylvania Sports Entertainment Netwo.

Peoples Natural Gas Company LLC

Peoples TWP LLC

Pitt Power

Pittsburgh SMSA Limited Partnership

Potomac Electric Power Company

Prince George's County

Prince William, County of

RAPPAHANNOCK ELECTRIC COOPERATIVE

RCYM Holdings LLC

Redi-Call Communications Company

SCHUYLKILL, COUNTY OF

SCS Networks

SCTF NET

SECOM NET

SOUTHEAST OHIO EMERGENCY MEDICAL

SW Networks

Snyder, County of

Southeastern Pennsylvania Transit Auth

Spotsylvania, County of

St. Mary's County of (MD)

Stafford, County of

Standard Backhaul Communications LLC

State of Maryland, MIEMSS

Texas Eastern Communications, LLC

Thought Transmissions, LLC

Torellco LLC

Transcontinental Gas Pipeline Corp.

Triangle Communications, Inc.

Turtle Networks 6559

Turtle Networks 6562

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

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

Warrenton Fauquier Joint Communications

Washington Gas Light Company

Washington Suburban Sanitary Commission

Webline Holdings LLC

Westmoreland County Public Safety

Wireless Internetwork LLC

World Class Wireless, LLC

Zango LLC

Zen Networks, Inc

iSignal

3G Wireless, LLC

ABC, Inc. - WPVI-TV

AERIAL VIDEO SYSTEMS

AT&T California

Alascom Inc

Anne Arundel, County of

Ascent Media Network Services, LLC

Bellsouth Telecommunications, Inc.

Borgeson, Tom R.

Broadcast Sports Inc.

C-SPAN

CBS Broadcasting Inc

CBS TELEVISION LICENSES LLC

CNG Communications, Inc.

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

Commonwealth of Pennsylvania-Radio Proj.

County of Fairfax, Virginia

Cowboys Stadium LP

CP Communications, LLC

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

Loop, Inc.

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

Penn Service Microwave Co., Inc.

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

RF Technology, LLC

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 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.

Village Video Productions Inc

Vvvx. 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: 05/16/2014

Job Number: 140413COMSJC03

Administrative Information

Status TEMPORARY (Operation from 06/26/2014 to 10/01/2014)

Call Sign TEMP10 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 TIW

Manufacturer 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 6.0 GHz

Emission / Frequency Range (MHz) 850KFXD / 6429.0 850KFXD / 6431.0

Max Great Circle Coordination Distance 552.8 km / 343.4 mi Precipitation Scatter Contour Radius 369.4 km / 229.5 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' 54.7" N
Longitude (NAD 83) 77° 45' 35.3" W
Ground Elevation (AMSL) 171.3 m / 562.0 ft
Antenna Centerline (AGL) 12.5 m / 41.0 ft
Antenna Model TIW 19 Meter

Antenna Mode Transmit 6.0 GHz

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

Max Available RF Power 5.6 (dBW/4 kHz)

Transmit 6.0 GHz

		Transmit 6.0 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		

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Coordination ValuesHAGERSTOWN, MDLicensee NameIntelsat License LLCLatitude (NAD 83)39° 35' 54.7" NLongitude (NAD 83)77° 45' 35.3" WGround Elevation (AMSL)171.3 m / 562.0 ftAntenna Centerline (AGL)12.5 m / 41.0 ftAntenna ModelTIW 19 Meter

Antenna Mode Transmit 6.0 GHz

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

Short Term -131.0 dBW/4 kHz 0.0025%

Max Available RF Power 5.6 (dBW/4 kHz)

Transmit 6.0 GHz

	Horizon	Antenna	Horizon	Coordination
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)
185	0.00	43.92	-9.07	204.54
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

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.

Jeffrey E. Cowles

Ashburn, Virginia 20147

DATED: May 16, 2014