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: 03/13/2015 - 06/13/2015

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 25, 2015.

Company

256Q Networks

AWC Networks

Adams County Department of Emergency Svc

Affiniti PA, LLC

Albermarle, County of, Virginia

Allegheny County Dept of Emergency Svcs

Allegheny Power Service Corporation

Alltel Communications LLC-Southern VA

American Electric Power Service Co

Anne Arundel, County of

Appalachia Engineering Services

Appalachian Broadcasting

Atlantic City Electric Company

Atlantic, County of

Auburn Data Systems, LLC

BAY BROADBAND COMMUNICATIONS LLC

Baltimore County of Maryland

Baltimore Gas and Electric Company

Bedford, County of

BFI Licenses, LLC

Berks County Department of Emergency Ser

Blue Ridge Carriers

Blueline Communications

CBS Communication 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

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

Comprehensive Wireless LLC

Conectiv Communications, Inc.

Converge Towers LLC

Coralinks

County of Burlington, Public Safety Cntr

County of Camden

County of Culpeper

County of Fayette

County of Louisa, VA

County of Lycoming

County of Salem

CP Communications, LLC

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

Geodesic Networks LLC

George Washington University

Gloucester, County of

HARRIS CORPORATION

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

Kryptick Technologies

Lancaster County-Wide Communications

Lebanon, County of

Loudoun, County of

M&T Bank

MARYLAND EMERG MANAGEMENT AGENCY COMM

MARYLAND STATE DEPT OF GENERAL SERVICES

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

Metrosat CommunicationsInc.

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 POWER COMPANY

Old Dominion LLC

PEG Bandwidth, LLC

PSEG Services Corporation

Peco Energy Company

Pennsylvania Sports Entertainment Netwo.

Pennsylvania State Police

Pennsylvania Turnpike Commission

Peoples Natural Gas Company LLC

Peoples TWP LLC

Pitt Power

Pitt Power

Pittsburgh SMSA Limited Partnership

Potomac Electric Power Company

Prince George's County

Prince William, County of

RAPPAHANNOCK ELECTRIC COOPERATIVE

RCTC Wholesale Corporation

RCYM Holdings LLC

Redi-Call Communications Company

Rendezvous Communications LLC

SCHUYLKILL, COUNTY OF

SCS Networks

SCTF NET

SECOM NET

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.

USOC of Pennsylvania RSA No 10 B2 Inc.

Verizon Wireless VAW LLC-Southern VA

Virginia Cellular LLC

Virginia Department of State Police

Virginia Electric & Power Company

Virginia PCS Alliance, L.C.

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

Warrenton Fauguier Joint Communications

Washington Gas Light Company

Washington Suburban Sanitary Commission

Washington, County of

Webline Holdings LLC

Westmoreland County Public Safety

Wireless Internetwork LLC

World Class Wireless, LLC

YAB Mobile

Zango LLC

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, Elena

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

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

Microwave Video Systems, LLC

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

National Football League

Navajo Communications Company

NorthWest Suburbs Community Access Corp

OHIO BELL TELEPHONE COMPANY

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 new York, inc

Verizon North Inc.

Verizon Northwest Inc.

Verizon Pennsylvania, Inc.

Verizon Virginia, Inc.

Verizon Washington DC, Inc.

Village Video Productions Inc

Vitec Broadcast Services, Inc.

Vyvx, LLC

Westar Satellite Services LP

Western Technical Services

Wexler Video, Inc.

Winged Vision Inc

Wisconsin Bell, Inc.

Wolfe Air Aviation

Society of Broadcast Engineers

District of Columbia

Maryland: Entire State

Pennsylvania: So. Central Region

Western/Pittsburgh Region

Virginia: DC Area Region

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: 02/13/2015

Job Number: 150125COMSJC01

Administrative Information

Status TEMPORARY (Operation from 03/13/2015 to 06/13/2015)

Call Sign TEMP06 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 Transmit

 Manufacturer
 TIW

 Model
 9.0 Meter

 Gain / Diameter
 53.5 dBi / 9.0 m

 3-dB / 15-dB Beamwidth
 0.36° / 0.67°

Max Available RF Power (dBW/4 kHz) 8.2

(dBW/MHz) 32.2

Maximum EIRP (dBW/4 kHz) 61.7

(dBW/MHz) 85.7 (dBW) 85.0

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

Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information Transmit 6.7 GHz

Emission / Frequency Range (MHz) 850KFXD / 6535.0

Max Great Circle Coordination Distance 518.8 km / 322.4 mi Precipitation Scatter Contour Radius 471.5 km / 292.9 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
Ltcensee LLC
Latitude (NAD 83)
Longitude (NAD 83)
Ground Elevation (AMSL)
Antenna Centerline (AGL)
Antenna Model
Intelsat License LLC
39° 35' 54.0" N
173° 45' 35.0" W
173.74 m / 570.0 ft
5.79 m / 19.0 ft
TIW 9.0 Meter

Antenna Mode Transmit 6.7 GHz

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

Short Term -131.0 dBW/4 kHz 0.0025%

Max Available RF Power 8.2 (dBW/4 kHz)

Transmit 6.7 GHz

	Horizon	Antenna	Horizon	Coordination
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)
0	0.00	101.81	-10.00	211.05
5	0.00	96.84	-10.00	211.05
10	0.00	91.86	-10.00	211.05
15	0.00	86.88	-10.00	211.05
20	0.00	81.90	-10.00	211.05
25	0.00	76.92	-10.00	211.05
30	0.00	71.95	-10.00	211.05
35	0.00	66.97	-10.00	211.05
40	0.00	62.00	-10.00	211.05
45	0.00	57.03	-10.00	211.05
50	0.00	52.06	-10.00	211.05
55	0.00	47.09	-9.82	211.75
60	0.00	42.14	-8.62	216.70
65	0.00	37.19	-7.26	222.46
70	0.00	32.26	-5.72	229.29
75	0.00	27.34	-3.92	237.58
80	0.00	22.47	-1.79	247.95
85	0.00	17.65	0.83	260.94
90	0.00	12.98	4.17	280.02
95	0.00	8.66	8.56	308.09
100	0.00	5.61	13.27	518.84
105	0.00	6.15	12.28	380.23
110	0.00	9.60	7.45	300.58
115	0.00	13.27	3.93	278.57
120	0.00	16.89	1.31	263.56
125	0.00	20.41	-0.75	252.60
130	0.00	23.83	-2.43	244.79
135	0.00	27.11	-3.83	238.03
140	0.00	30.23	-5.01	232.51
145	0.00	33.14	-6.01	227.97
150	0.00	35.82	-6.85	224.24
155	0.00	38.20	-7.55	221.20
160	0.00	40.26	-8.12	218.77
165	0.00	41.93	-8.56	216.92
170	0.00	43.16	-8.88	215.61
175	0.00	43.92	-9.07	214.83
180	0.00	44.18	-9.13	214.57

COMSEARCH

Earth Station Data Sheet

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

Coordination ValuesHAGERSTOWN, MDLicensee NameIntelsat License LLCLatitude (NAD 83)39° 35' 54.0" NLongitude (NAD 83)77° 45' 35.0" WGround Elevation (AMSL)173.74 m / 570.0 ft

Antenna Centerline (AGL) 5.79 m / 19.0 ft Antenna Model TIW 9.0 Meter

Antenna Mode Transmit 6.7 GHz

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

Max Available RF Power 8.2 (dBW/4 kHz)

Transmit 6.7 GHz

		Transmit 6.7 GHz						
	Horizon	Antenna	Horizon	Coordination				
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)				
185	0.00	43.92	-9.07	214.83				
190	0.00	43.16	-8.88	215.61				
195	0.00	41.93	-8.56	216.92				
200	0.00	40.26	-8.12	218.78				
205	0.00	38.20	-7.55	221.20				
210	0.00	35.81	-6.85	224.24				
215	0.00	33.14	-6.01	227.97				
220	0.00	30.22	-5.01	232.51				
225	0.00	27.11	-3.83	238.02				
230	0.00	23.83	-2.43	244.78				
235	0.00	20.42	-0.75	252.59				
240	0.00	16.89	1.31	263.58				
245	0.00	13.28	3.92	278.55				
250	0.00	9.59	7.46	300.66				
255	0.00	6.33	11.96	387.95				
260	0.00	6.11	12.35	500.74				
265	0.00	9.18	7.93	303.73				
270	0.00	13.46	3.77	277.66				
275	0.00	18.11	0.55	259.46				
280	0.00	22.90	-2.00	246.92				
285	0.00	27.76	-4.09	236.81				
290	0.00	32.66	-5.85	228.68				
295	0.00	37.59	-7.38	221.96				
300	0.00	42.53	-8.72	216.28				
305	0.00	47.48	-9.91	211.40				
310	0.00	52.44	-10.00	211.05				
315	0.00	57.40	-10.00	211.05				
320	0.00	62.37	-10.00	211.05				
325	0.00	67.34	-10.00	211.05				
330	0.00	72.31	-10.00	211.05				
335	0.00	77.28	-10.00	211.05				
340	0.00	82.26	-10.00	211.05				
345	0.00	87.23	-10.00	211.05				
350	0.00	92.21	-10.00	211.05				
355	0.00	97.18	-10.00	211.05				

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: February 13, 2015