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: 06/08/2016 - 06/18/2016

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 May 3, 2016.

Company

256Q Networks

AB Services LLC

AT&T Communications of Virginia, LLC

AT&T Corp.

AWC Networks

Adams County Department of Emergency Svc

Affiniti PA, LLC

Alltel Communications LLC-E OH WV

Alltel Communications LLC-Southern VA

American Electric Power Service Co

Appalachia Engineering Services

Argos Engineering, LLC

Atlantic Broadband (Penn), LLC

Atlantic City Electric Company

Atlantic, County of

BLAIR COUNTY 911

Baltimore County of Maryland

Baltimore Gas and Electric Company

Beaver Springs Faith Baptist Church, Inc.

Bedford, County of

Believe Wireless, LLC

Berks County Department of Emergency Ser

Blue Ridge Carriers

Blueline Communications

CLEARFIELD, COUNTY OF

CNG Transmission Corporation

CROWN COMMUNICATION, INC.

Cambria, County of

Capital Communications of America

Caroline County, VA

Carroll, County of

Cellco Partnership - Bridgeville, PA/WV

Cellco Partnership - Southern Virginia

Cellco Partnership- PA Region

Cellco Partnership-WDC/Baltimore

Cellco Prtnrshp - Phil. Tri-State Rgn

Centre, County of

Charles, County of

Chester, County of

City of Fredericksburg

Citynet

Clinton, County of

Columbia Gas Transmission Corporation

Commonwealth of Pennsylvania

Commonwealth of Pennsylvania-Radio Proj.

Comprehensive Wireless LLC

Conterra Ultra Broadband, LLC

Coral Reef Technologies Ltd

Coralinks

County of Fayette

County of Frederick

County of Lycoming

County of York

DAUPHIN COUNTY EMERGENCY MANAGEMENT

Delaware County (PA) Emergency Services

Delaware Division of Communications

Delmarva Broadcasting Company

Delmarva Power and Light Company

ECW Wireless, LLC

EG Broadcast Newco Corp

Eastern MLG LLC

Enoch Pratt Free Library

Exelon Generation Company, LLC

FELHC, INC

Federal Communication Commission

Frederick County

Fundamental Broadcasting LLC

GETWIRELESS.NET

GREAT SCOTT BROADCASTING

GW Networks

Garden State Transmissions

Geodesic Networks LLC

Gloucester, County of

Greene, County of (PA)

Hanover, County of

Hardy Cellular Telephone Company

Harrisonburg-Rockingham ECC

High Voltage Communications LLC (CFN)

Huntingdon County of

Indiana, County of

Jefferson Microwave, LLC

Juniata County Emergency Services

Kryptick Technologies

Lancaster County-Wide Communications

Limitless Mobile, LLC

Loudoun, County of

MGW Networks, LLC

MVC Research, LLC

Maryland Public Broadcasting Commission

Maryland State Highway Administration

Maryland, State of - Dept. of Info & Tech

Montgomery County Of

National Tower Company LLC

New Cingular Wireless PCS LLC - NJ

New Cinqular Wireless PCS - Marvland

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

New Line Networks, LLC

Norfolk Southern Railway

Northumberland County DPS/911

Old Dominion LLC

PA Communications

PEG Bandwidth, LLC

PRESTON COUNTY OFFICE OF EMERGENCY MANAG

PSEG Services Corporation

Peco Energy Company

Pennsylvania Turnpike Commission

Peoples Natural Gas Company LLC

Pepco Holdings Inc.

Perseus Technology Holdings USA Inc.

Pitt Power

Pittsburgh SMSA Limited Partnership

Prince George's County

Prince William, County of

RAPPAHANNOCK ELECTRIC COOPERATIVE

Radio One Inc

Rural Broadband Network Services LLC

SCS Networks

SHENANDOAH VALLEY ELECTRIC COOPERATIVE

SW Networks

Somerset, County of

South Central Task Force (SCTFNET)

Southern Maryland Electric Cooperative I

Spotsylvania, County of

Sprint Spectrum L.P.

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.

Turtle Networks 6559

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 Maryland, Inc.

Verizon Wireless (VAW) LLC - Maryland

Verizon Wireless (VAW) LLC - W/B/V Mkts

Verizon Wireless (VAW) LLC-Pennsylvania

Verizon Wireless VAW 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. WV DHHR BPH, Office of EMS, Com. Div. Washington D.C. SMSA L.P. Washington Gas Light Company Washington Suburban Sanitary Commission Washington, County of Webline Holdings LLC Wireless Internetwork LLC World Class Wireless, LLC YAB Mobile iSignal xWave Engineering LLC

There are no unresolved interference objections with the station contained in these applications.

The following section presents the data pertinent to frequency coordination of the 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: 05/03/2016

Job Number: 160503COMSGE04

Administrative Information

Status TEMPORARY (Operation from 06/08/2016 to 06/18/2016)

Call Sign TEMP06 Licensee Code INTELS

Licensee Name Intelsat License LLC

Site Information HAGERSTOWN, MD

Venue Name

Latitude (NAD 83) 39° 35′ 54.7″ N Longitude (NAD 83) 77° 45′ 35.3″ W

Climate Zone A
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

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) 12.5 m / 41.0 ft

Antenna Information Transmit - FCC32

Manufacturer GD Satcom

Model 19M CFPA
Gain / Diameter 59.1 dBi / 19.0 m

3-dB / 15-dB Beamwidth 0.20° / 0.40°

Max Available RF Power (dBW/4 kHz) 2.0

(dBW/MHz) 26.0

Maximum EIRP (dBW/4 kHz) 61.1

(dBW/MHz) 85.1

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) 850KG7W / 6416.5 - 6418.5

Max Great Circle Coordination Distance 510.1 km / 316.9 mi Precipitation Scatter Contour Radius 235.5 km / 146.3 mi **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 GD 19 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 2.0 (dBW/4 kHz)

Transmit	6.1	GHz	
izon	Со	ordinat	i

	Horizon	Antenna	Horizon	Coordination
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)
0	0.00	101.81	-10.00	188.84
5	0.00	96.84	-10.00	188.84
10	0.00	91.86	-10.00	188.84
15	0.00	86.88	-10.00	188.84
20	0.00			188.84
25 25		81.90	-10.00	
30	0.00	76.92	-10.00	188.84
	0.00	71.95	-10.00	188.84
35	0.00	66.97	-10.00	188.84
40	0.00	62.00	-10.00	188.84
45	0.00	57.03	-10.00	188.84
50	0.00	52.06	-10.00	188.84
55	0.00	47.09	-9.82	189.52
60	0.00	42.14	-8.62	194.15
65	0.00	37.19	-7.26	199.34
70	0.00	32.26	-5.72	205.22
75	0.00	27.34	-3.92	210.56
80	0.00	22.47	-1.79	219.34
85	0.00	17.65	0.83	230.85
90	0.00	12.98	4.17	246.75
95	0.00	8.66	8.56	269.45
100	0.00	5.61	13.27	510.12
105	0.00	6.15	12.28	352.29
110	0.00	9.60	7.45	263.23
115	0.00	13.27	3.93	245.55
120	0.00	16.89	1.31	233.05
125	0.00	20.41	-0.75	223.82
130	0.00	23.83	-2.43	216.65
135	0.00	27.11	-3.83	210.93
140	0.00	30.23	-5.01	206.29
145	0.00	33.14	-6.01	204.11
150	0.00	35.82	-6.85	200.90
155	0.00	38.20	-7.55	198.22
160	0.00	40.26	-8.12	196.05
165	0.00	41.93	-8.56	194.36
170	0.00	43.16	-8.88	193.15
175	0.00	43.92	-9.07	192.43
180	0.00	44.18	-9.13	192.18
185	0.00	43.92	-9.07	192.42
100	3.00	.0.02	0,01	102112

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 GD 19 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 2.0 (dBW/4 kHz)

Transmit 6.1 GHz

	Horizon	Antenna	Horizon	Coordination
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)
190	0.00	43.16	-8.88	193.15
195	0.00	41.93	-8.56	194.36
200	0.00	40.26	-8.12	196.05
205	0.00	38.20	-7.55	198.22
210	0.00	35.81	-6.85	200.90
215	0.00	33.14	-6.01	204.11
220	0.00	30.22	-5.01	206.30
225	0.00	27.11	-3.83	210.93
230	0.00	23.83	-2.43	216.64
235	0.00	20.42	-0.75	223.81
240	0.00	16.89	1.31	233.07
245	0.00	13.28	3.92	245.53
250	0.00	9.59	7.46	263.29
255	0.00	6.33	11.96	362.01
260	0.00	6.11	12.35	490.02
265	0.00	9.18	7.93	265.88
270	0.00	13.46	3.77	244.79
275	0.00	18.11	0.55	229.60
280	0.00	22.90	-2.00	218.46
285	0.00	27.76	-4.09	209.91
290	0.00	32.66	-5.85	204.71
295	0.00	37.59	-7.38	198.89
300	0.00	42.53	-8.72	193.77
305	0.00	47.48	-9.91	189.18
310	0.00	52.44	-10.00	188.84
315	0.00	57.40	-10.00	188.84
320	0.00	62.37	-10.00	188.84
325	0.00	67.34	-10.00	188.84
330	0.00	72.31	-10.00	188.84
335	0.00	77.28	-10.00	188.84
340	0.00	82.26	-10.00	188.84
345	0.00	87.23	-10.00	188.84
350	0.00	92.21	-10.00	188.84
355	0.00	97.18	-10.00	188.84

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.

BY:

Gary K. Edwards Senior Manager COMSEARCH 19700 Janelia Farm Boulevard Ashburn, VA 20147

DATED: May 25, 2016