

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: 08/07/2018 - 09/06/2018

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 June 04, 2018.

Company

AB Services LLC
AQ2AT LLC
AT&T Corp.
AT&T Wireless Services 3 LLC - PA
Access MLP Operating LLC
Adams County Department of Emergency Svc
Affiniti PA, LLC
Albemarle, County of, Virginia
Allentown SMSA Limited Partnership
Alltel Communications LLC - Western PA
Alltel Communications LLC-E OH WV
American Electric Power Service Corp
Appalachia Engineering Services
Appalachian Power Company
Argos Engineering, LLC
Atlantic Broadband (Penn), LLC
Atlantic City Electric Company
Atlantic Coast Pipeline, LLC
Atlantic, County of
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
Blair County 911
Blue Ridge Carriers
Blueline Communications
Bucks County Dept. of Emergency Comm
CBS Radio of Maryland, LLC
Calvert, County of
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

Charles, County of
Chester, County of
Chesterfield, County of
City of Fredericksburg
Citynet, LLC
Clearfield, County of
Clinton, County of
Columbia Gas Transmission, LLC
Commonwealth of Pennsylvania
Commonwealth of Pennsylvania-Radio Proj.
Comprehensive Wireless LLC
Conterra Ultra Broadband, LLC
County of Augusta
County of Burlington, Public Safety Cntr
County of Camden
County of Centre
County of Culpeper
County of Fayette
County of Frederick
County of Lycoming
County of York
DSRC Networks
Dauphin County Emergency Management
Delaware County (PA) Emergency Services
Delaware Division of Communications
Delmarva Broadcasting Company
Delmarva Power and Light Company
Dominion Energy Transmission, Inc.
ECW Wireless, LLC
Eastern MLG LLC
Electric Railroad, LLC
Enoch Pratt Free Library
Essex, County of
Exelon Generation Company, LLC
FELHC, Inc.
Federal Communication Commission
Fulton County of (PA)
Fundamental Broadcasting LLC
GSB Broadcasting LLC
GTT America LLC
Garden State Transmissions
Getwireless.Net
Gloucester, County of
Goochland County
Goochland, County of
Greene, County of (PA)
Hanover, County of
Hardy Cellular Telephone Company
Hardy County OEM/E911
Harrisonburg-Rockingham ECC
Henrico County
High Voltage Communications LLC (CFN)
Huntingdon, County of
Indiana, County of
Jefferson County of Pennsylvania
Jefferson Microwave, LLC
Juniata County Emergency Services
King and Queen County
Kryptick Technologies
Lancaster County-Wide Communications
Limitless Mobile, LLC
Loudoun, County of

MGW Networks, LLC
 Maryland Public Broadcasting Commission
 Maryland State Highway Administration
 Maryland, State of - Dept.of Info & Tech
 Mifflin County
 Montgomery County Of
 Montgomery, County of
 National Tower Company LLC
 New Cingular Wireless PCS LLC - NJ
 New Cingular Wireless PCS - Maryland
 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 Turnpike Authority-Pkwy Div
 New Jersey, State of -NJ Transit
 New Line Networks, LLC
 Norfolk Southern Railway
 Northumberland County DPS/911
 PSEG Services Corporation
 Peco Energy Company
 Pennsylvania Turnpike Commission
 Perry, County of
 Pittsburgh SMSA Limited Partnership
 Preston County Office of Emergency Manag
 Prince George's County
 Prince William, County of
 Radio One Inc
 Rappahannock Electric Cooperative
 Rockbridge Reg. Pub Safety Comm Ctr
 Rural Broadband Network Services LLC
 Rural Broadband, LLC
 SW Networks
 Shenandoah Personal Communications, LLC
 Shenandoah Valley Electric Cooperative
 Snyder, County of
 Somerset, County of
 South Central Task Force (SCTFNET)
 Southern Maryland Electric Cooperative I
 Spotsylvania, County of
 Sprintcom, Inc
 St. Mary's County of (MD)
 Stafford, County of
 State of Maryland, MIEMSS
 T-Mobile License LLC
 Texas Eastern Communications, LLC
 Thought Transmissions, LLC
 Torellco LLC
 Transcontinental Gas Pipeline Corp.
 US Cellular Operating Company, LLC (WI)
 USCOC of Cumberland, Inc.
 USCOC of Virginia RSA #3, Inc.
 USOC of Pennsylvania RSA No 10 B2 Inc.
 Uniti Fiber PEG, LLC
 Ursa Navigation Solutions, 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 RSA 5 Limited Partnership
Virginia Broadband, LLC
Virginia Department of State Police
Virginia Electric & Power Company
WV DHHR BPH, Office of Ems, Com. Div.
Warrenton Fauquier Joint Communications
Washington Gas Light Company
Washington Suburban Sanitary Commission
Washington, County of
Weblin Holdings LLC
West Virginia Educational Broadcasting
Westmoreland, County of
Wheeling Power Company
Wicomico County
Williamson Enterprise LLC
Wireless Internetwork LLC
World Class Wireless, LLC
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: 06/04/2018
Job Number: 180604COMSGE03

Administrative Information

Status TEMPORARY (Operation from 08/07/2018 to 09/06/2018)
Call Sign TEMP09
Licensee Code INTELS
Licensee Name Intelsat License LLC

Site Information

HAGERSTOWN, MD

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 - FCC32

Manufacturer Vertex
Model 9 KPC
Gain / Diameter 53.5 dBi / 9.0 m
3-dB / 15-dB Beamwidth 0.36° / 0.67°

Max Available RF Power (dBW/4 kHz) 9.0
(dBW/MHz) 33.0

Maximum EIRP (dBW/4 kHz) 62.5
(dBW/MHz) 86.5

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)
1M00FXD / 5926.0
1M00FXD / 6424.0

Max Great Circle Coordination Distance 528.3 km / 328.3 mi
Precipitation Scatter Contour Radius 526.6 km / 327.2 mi

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		Vertex 9 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	9.0 (dBW/4 kHz)		

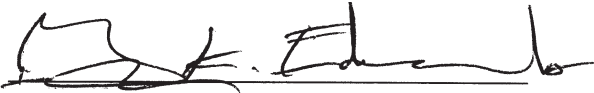
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	101.81	-10.00	214.29
5	0.00	96.84	-10.00	214.29
10	0.00	91.86	-10.00	214.29
15	0.00	86.88	-10.00	214.29
20	0.00	81.90	-10.00	214.29
25	0.00	76.92	-10.00	214.29
30	0.00	71.95	-10.00	214.29
35	0.00	66.97	-10.00	214.29
40	0.00	62.00	-10.00	214.29
45	0.00	57.03	-10.00	214.29
50	0.00	52.06	-10.00	214.29
55	0.00	47.09	-9.82	215.01
60	0.00	42.14	-8.62	220.07
65	0.00	37.19	-7.26	225.96
70	0.00	32.26	-5.72	232.94
75	0.00	27.34	-3.92	241.41
80	0.00	22.47	-1.79	251.36
85	0.00	17.65	0.83	265.34
90	0.00	12.98	4.17	284.87
95	0.00	8.66	8.56	313.54
100	0.00	5.61	13.27	528.33
105	0.00	6.15	12.28	387.75
110	0.00	9.60	7.45	305.88
115	0.00	13.27	3.93	283.39
120	0.00	16.89	1.31	268.03
125	0.00	20.41	-0.75	256.78
130	0.00	23.83	-2.43	248.13
135	0.00	27.11	-3.83	241.86
140	0.00	30.23	-5.01	236.23
145	0.00	33.14	-6.01	231.59
150	0.00	35.82	-6.85	227.78
155	0.00	38.20	-7.55	224.67
160	0.00	40.26	-8.12	222.19
165	0.00	41.93	-8.56	220.30
170	0.00	43.16	-8.88	218.96
175	0.00	43.92	-9.07	218.16
180	0.00	44.18	-9.13	217.90
185	0.00	43.92	-9.07	218.16

Coordination Values		HAGERSTOWN, MD	
Licensee Name		Intelsat License LLC	
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Ground Elevation (AMSL)		173.74 m / 570.0 ft	
Antenna Centerline (AGL)		5.79 m / 19.0 ft	
Antenna Model		Vertex 9 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	9.0 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	43.16	-8.88	218.96
195	0.00	41.93	-8.56	220.30
200	0.00	40.26	-8.12	222.20
205	0.00	38.20	-7.55	224.67
210	0.00	35.81	-6.85	227.78
215	0.00	33.14	-6.01	231.60
220	0.00	30.22	-5.01	236.23
225	0.00	27.11	-3.83	241.86
230	0.00	23.83	-2.43	248.12
235	0.00	20.42	-0.75	256.77
240	0.00	16.89	1.31	268.04
245	0.00	13.28	3.92	283.37
250	0.00	9.59	7.46	305.95
255	0.00	6.33	11.96	395.68
260	0.00	6.11	12.35	510.07
265	0.00	9.18	7.93	309.22
270	0.00	13.46	3.77	282.46
275	0.00	18.11	0.55	263.82
280	0.00	22.90	-2.00	250.31
285	0.00	27.76	-4.09	240.61
290	0.00	32.66	-5.85	232.32
295	0.00	37.59	-7.38	225.45
300	0.00	42.53	-8.72	219.64
305	0.00	47.48	-9.91	214.64
310	0.00	52.44	-10.00	214.29
315	0.00	57.40	-10.00	214.29
320	0.00	62.37	-10.00	214.29
325	0.00	67.34	-10.00	214.29
330	0.00	72.31	-10.00	214.29
335	0.00	77.28	-10.00	214.29
340	0.00	82.26	-10.00	214.29
345	0.00	87.23	-10.00	214.29
350	0.00	92.21	-10.00	214.29
355	0.00	97.18	-10.00	214.29

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
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19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: June 25, 2018