

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: 07/01/2018 - 09/01/2018

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 April 28, 2018.

Company

AB Services LLC
AT&T Corp.
AT&T Wireless Services 3 LLC - PA
Adams County Department of Emergency Svc
Affiniti PA, LLC
Albemarle, County of, Virginia
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
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
City of Fredericksburg
Citynet
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 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
Enoch Pratt Free Library
Essex, County of
Exelon Generation Company, LLC
FELHC, Inc.
Federal Communication Commission
Fulton County of (PA)
Fundamental Broadcasting LLC
GTT America LLC
Garden State Transmissions
Getwireless.Net
Gloucester, County of
Greene, County of (PA)
Hanover, County of
Hardy Cellular Telephone Company
Hardy County OEM/E911
Harrisonburg-Rockingham ECC
High Voltage Communications LLC (CFN)
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
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 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
Westmoreland, County of
Wicomico County
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: 04/28/2018
Job Number: 180428COMSGE01

Administrative Information

Status: TEMPORARY (Operation from 07/01/2018 to 09/01/2018)
Call Sign: TEMP09
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): 2.9
(dBW/MHz): 26.9

Maximum EIRP (dBW/4 kHz): 62.0
(dBW/MHz): 86.0

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 / 6423.0
1M00FXD / 6425.0

Max Great Circle Coordination Distance: 520.7 km / 323.5 mi
Precipitation Scatter Contour Radius: 266.0 km / 165.3 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 Satcom 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	2.9 (dBW/4 kHz)		

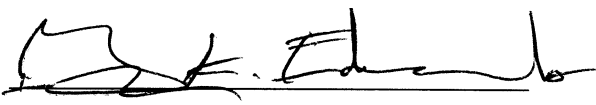
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	101.81	-10.00	192.30
5	0.00	96.84	-10.00	192.30
10	0.00	91.86	-10.00	192.30
15	0.00	86.88	-10.00	192.30
20	0.00	81.90	-10.00	192.30
25	0.00	76.92	-10.00	192.30
30	0.00	71.95	-10.00	192.30
35	0.00	66.97	-10.00	192.30
40	0.00	62.00	-10.00	192.30
45	0.00	57.03	-10.00	192.30
50	0.00	52.06	-10.00	192.30
55	0.00	47.09	-9.82	192.97
60	0.00	42.14	-8.62	197.59
65	0.00	37.19	-7.26	202.77
70	0.00	32.26	-5.72	207.04
75	0.00	27.34	-3.92	214.20
80	0.00	22.47	-1.79	223.20
85	0.00	17.65	0.83	235.00
90	0.00	12.98	4.17	250.64
95	0.00	8.66	8.56	274.63
100	0.00	5.61	13.27	520.72
105	0.00	6.15	12.28	360.16
110	0.00	9.60	7.45	268.25
115	0.00	13.27	3.93	249.41
120	0.00	16.89	1.31	237.25
125	0.00	20.41	-0.75	227.80
130	0.00	23.83	-2.43	220.45
135	0.00	27.11	-3.83	214.58
140	0.00	30.23	-5.01	209.81
145	0.00	33.14	-6.01	205.91
150	0.00	35.82	-6.85	204.32
155	0.00	38.20	-7.55	201.66
160	0.00	40.26	-8.12	199.49
165	0.00	41.93	-8.56	197.80
170	0.00	43.16	-8.88	196.60
175	0.00	43.92	-9.07	195.87
180	0.00	44.18	-9.13	195.63
185	0.00	43.92	-9.07	195.87

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Antenna Model		GD Satcom 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	2.9 (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	196.60
195	0.00	41.93	-8.56	197.80
200	0.00	40.26	-8.12	199.49
205	0.00	38.20	-7.55	201.66
210	0.00	35.81	-6.85	204.33
215	0.00	33.14	-6.01	205.91
220	0.00	30.22	-5.01	209.82
225	0.00	27.11	-3.83	214.58
230	0.00	23.83	-2.43	220.44
235	0.00	20.42	-0.75	227.79
240	0.00	16.89	1.31	237.27
245	0.00	13.28	3.92	249.39
250	0.00	9.59	7.46	268.31
255	0.00	6.33	11.96	370.15
260	0.00	6.11	12.35	500.38
265	0.00	9.18	7.93	270.97
270	0.00	13.46	3.77	248.64
275	0.00	18.11	0.55	233.72
280	0.00	22.90	-2.00	222.31
285	0.00	27.76	-4.09	213.52
290	0.00	32.66	-5.85	206.52
295	0.00	37.59	-7.38	202.33
300	0.00	42.53	-8.72	197.21
305	0.00	47.48	-9.91	192.63
310	0.00	52.44	-10.00	192.30
315	0.00	57.40	-10.00	192.30
320	0.00	62.37	-10.00	192.30
325	0.00	67.34	-10.00	192.30
330	0.00	72.31	-10.00	192.30
335	0.00	77.28	-10.00	192.30
340	0.00	82.26	-10.00	192.30
345	0.00	87.23	-10.00	192.30
350	0.00	92.21	-10.00	192.30
355	0.00	97.18	-10.00	192.30

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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DATED: May 4, 2018