

Prepared By

## **COMSEARCH**

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

Prepared For

### **Intelsat North America, LLC CLARKSBURG, MARYLAND**

Temporary Receive-Only Earth Station  
Operation Dates: 12/19/2010 - 03/19/2011

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 November 10, 2010.

#### Company

ACCELACOM-BALTIMORE LLC  
ALLEGANY COLLEGE OF MARYLAND  
ART Licensing Corp.  
AT&T COMMUNICATIONS OF MARYLAND INC  
AT&T COMMUNICATIONS OF VIRGINIA INC  
AT&T CORP  
Airband Communications Inc  
Albermarle, County of, Virginia  
Allegheny County  
Allegheny Power Service Corporation  
Allentown SMSA Limited Partnership  
Alltel Communications LLC - Verizon SOVA  
Alltel Communications of Virginia #1 LLC  
Alltel Communications of Virginia, Inc.  
Atlantic Broadband (Delmar), LLC  
Atlantic Broadband (Penn), LLC  
BALTIMORE CITY DEPARTMENT OF PUBLIC WORK  
BAY BROADBAND COMMUNICATIONS LLC  
BEDFORD COUNTY 911  
Baltimore County of Maryland  
Baltimore Gas and Electric Company  
Believe Wireless, LLC  
Berks, County of  
Blaze Broadband  
Bucks, County of  
Business Only Broadband, LLC  
CHESTER, COUNTY OF  
COMMONWEALTH OF PENNSYLVANIA,RADIO PROJ.  
COUNTY OF DINWIDDIE  
COUNTY OF MORRIS  
CROWN COMMUNICATION, INC.

Company (Continued)

Cambria, County of  
Cape May County Municipal Utilities Auth  
Cape May County, MIS Department  
Cellco Partnership - Bridgeville, PA  
Cellco Partnership - Southern Virginia  
Cellco Partnership- PA Region  
Cellco Partnership-Newark-Dallas Verizon  
Cellco Prtnrshp - Phil. Tri-State Rgn  
Chesterfield, County of  
City of Hampton, Virginia  
City of Laurel  
City of Ocean City, MD  
City of Portsmouth VA  
Clearwire Spectrum Holdings II, LLC  
Clearwire Spectrum Holdings III, LLC  
Clearwire Spectrum Holdings LLC  
Conterra Ultra Broadband, LLC  
County of Burlington  
County of Orange Div of Wireless Tech  
County of Stafford  
County of Tioga  
County of Warren  
Cricket Communications, Inc  
Cumberland, County of  
D&E Communications, Inc.  
DELAWARE STATE - DTI  
Direct Broadcast Services, Inc.  
ESSEX, COUNTY OF-SHERIFF'S OFFICE  
Eduro Networks LLC  
Enoch Pratt Free Library  
Exelon Generation Company, L.L.C  
FiberTower Network Services Corp.  
Franklin County Dept. of Emergency Servi  
Frederick County  
GEORGE MASON UNIVERSITY INSTR FNDTION  
GETWIRELESS.NET  
Gannett Company, Inc.  
Globecomm Systems, Inc.  
HANOVER COUNTY  
HENRICO COUNTY  
Hampton Roads Planning District Commissi  
Hardy Cellular Telephone Company  
Harrison County Emergency Services  
Harrisonburg-Rockingham ECC  
Hopewell Radiology Group  
Hudson County MIS Department  
Hudson County Prosecutor's Office  
Huntingdon County of  
International Communications Group, Inc.  
Isle of Wight, County of  
JUNIATA COUNTY OF

Company (Continued)

Kent County Levy Court  
King George County  
LACKAWANNA COUNTY  
LANCASTER COUNTY OF  
LB Tower Company LLC  
LOWER SHORE BROADBAND COOPERATIVE  
LYCOMING COUNTY  
Last Mile Inc.  
Lehigh, County of  
Loudoun County Public Schools  
Loudoun Wireless LLC  
Loudoun, County of  
M&T Bank  
MCI Communications Services Inc.  
METROPOLITAN AREA NETWORKS, INC.  
MIT LINCOLN LABORATORY  
MONROE COUNTY CONTROL CENTER  
Manchester, Township of  
Maryland Port Administration  
Maryland Public Broadcasting Commission  
Maryland State Highway Administration  
Maryland, State of - Budget & Management  
Middle East Broadcasting Networks, Inc.  
Mifflin County  
Mobile Satellite Communications Inc  
Montgomery, County of  
NEW JERSEY STATE POLICE  
NEW JERSEY TRANSIT RAIL OPERATIONS, INC  
NOROC Broadband LLC  
NYNEX Mobile of New York LP  
Netrepid, Inc.  
New Cingular Wireless PCS LLC -NJ  
New Cingular Wireless PCS - VA/DC/MD  
New Cingular Wireless PCS LLC - AL, MS,  
New Cingular Wireless PCS LLC - DC  
New Cingular Wireless PCS of PA LLC  
New Cingular Wireless PCS, LLC - PA  
New Cingular Wireless PCS, LLC - WV/VA  
New Jersey Turnpike Authority  
New Jersey Turnpike Authority-Pkwy Div  
New Jersey, State of -NJ Transit  
New Kent County  
New York SMSA LP (NY Metro Region)  
New York, City of  
Nextlink Wireless, Inc  
Northeast Pennsylvania SMSA LTD Prtnrsh  
Northern Virginia Electric Cooperative  
ORBCOMM GLOBAL LP  
Open Range Communications  
PENNSYLVANIA MICROWAVE NETWORK INC.  
PENNSYLVANIA TURNPIKE COMMISSION

Company (Continued)

POTTER, COUNTY OF  
PSEG Services Corporation  
Petersburg Cellular Partnership  
Petersburg Police Department  
Philly Sports Wireless  
Pittsburgh, City of (PA)  
Pontis Communications, Inc.  
Port Authority of New York & New Jersey  
Port Networks, LLC  
Public Broadcasting Service  
QUALCOMM INC.  
QUICK LINK CONNECTIONS INC  
RAYTHEON COMPANY  
RCTC Wholesale Corporation - Verizon  
RapidDSL & Wireless, Inc.  
Roadstar Internet, Inc.  
Rural Broadband Network Services LLC  
SANOFI PASTEUR  
SCHUYLKILL, COUNTY OF  
SCTF NET  
SECOM NET  
SOMERSET COUNTY  
SOUTHEASTERN PENNSYLVANIA TRANSIT AUTH  
Salem County Information Technology  
Shenandoah Personal Communications Co  
Somerset County, Maryland  
State of Maryland, MIEMSS  
State of WV DHHR/BPH STECS  
Stevens Institute of Technology  
Sullivan, County of  
Synergy Telecommunications Corp  
Telecom Transport Management, Inc  
Thacher, Proffitt & Wood LLP  
Towerstream Corp  
Town of Woodbridge, Police Department  
Township of Jackson  
UNION, COUNTY OF  
UNIVERSITY OF MARYLAND  
USCOC of Cumberland, Inc.  
USCOC of Virginia RSA #2, Inc.  
USCOC of Virginia RSA #3, Inc.  
Verizon New Jersey, Inc.  
Verizon Virginia, Inc.  
Virginia Beach City of  
Virginia Broadband, LLC  
Virginia Electric & Power Company  
Virginia RSA #7, Inc.  
WASHINGTON SUBURBAN SANITARY COMMISSION  
WEST VIRGINIA RADIO CORPORATION  
WHYY, INC.  
WICOMICO BOARD OF EDUCATION  
WPNT, Inc.

Company (Continued)

Warrenton Fauquier Joint Communications  
Washington Gas Light Company  
Wayne, County of  
Wayne, Township of  
Western PA Internet Access, Inc.  
York County  
York County Dept of Emergency Services  
ABC, INC.  
ABC, Inc. - WPVI-TV  
ACC License, LLC  
Adams CATV, Inc.  
American Broadcasting Companies, Inc.  
Antietam Cable TV  
C-SPAN  
CATV Service, Inc.  
CBS Broadcasting Inc  
CBS Corporation  
COMCAST CABLEVISION OF THE DISTRICT LLC  
COMCAST CABLEVISION OF VIRGINIA, INC.  
COMMONWEALTH PUBLIC BROADCASTING  
CTVN HARRISBURG, LLC  
Channel Communications  
Cox Communications - Northern VA  
Delmarva Broadcast Service  
Detroit Free Press, Inc.  
ENTRAVISION HOLDINGS, LLC  
F CORPORATION  
FIRST MEDIA RADIO LLC  
FOX TELEVISION STATIONS, INC.  
FOX TELEVISION STATIONS, INC.  
GEORGE MASON UNIVERSITY INSTR FNDTION  
Gans Communications, L.P.  
Gray Television Licensee, Inc (WCAV)  
HOWARD UNIVERSITY TELEVISION - (WHUT-TV)  
Hampton Roads Educational Telecommunicat  
INDEPENDENCE PUBLIC MEDIA - PHILADELPHIA  
ION MEDIA LICENSE COMPANY, LLC  
ION MEDIA PHILADELPHIA LICENSE, INC.  
JLA MEDIA AND PUBLICATIONS, LLC  
LIBERTY UNIVERSITY  
LOCAL TV VIRGINIA LICENSE, LLC  
Local TV Pennsylvania License, LLC  
MEDIA GENERAL COMMUNICATIONS HOLDINGS, L  
Maryland Public Broadcasting Commission  
Multimedia Holdings Corporation  
NATIONAL CABLE SATELLITE CORPORATION  
NBC TELEMUNDO LICENSE CO.  
NBC Telemundo License Co.  
NEW JERSEY PUBLIC BROADCASTING AUTHORITY  
NEXSTAR BROADCASTING, INC.  
NORTHEASTERN PENNSYLVANIA ED TV ASSN  
Newport Television LLC

Company (Continued)

PHILADELPHIA TELEVISION NETWORK, INC.  
PHILADELPHIA TELEVISION STATION WPSG  
PITTSBURGH TELEVISION STATION WNPA INC  
POCONO CABLE TV INC  
Pacific and Southern Company, Inc.  
Pennsylvania Educational Comm Systems  
RCN Telecom Services, LLC  
RCN of Pennsylvania, Inc.  
SHENANDOAH VALLEY EDUCATIONAL TV CORP  
Service Electric Cablevision, Inc.  
Susquehanna Communications Co.  
Time Warner Entertainment Company L.P.  
Univision of New York  
WAVY BROADCASTING, LLC  
WBAL HEARST-ARGYLE TV, INC. (CA CORP.)  
WCWB Licensee L.L.C.  
WDBJ Television, Inc  
WDCW BROADCASTING, INC.  
WEST VIRGINIA MEDIA HOLDINGS, LLC  
WGAL Hearst- Argyle Television, Inc  
WHYY, INC  
WITF Inc.  
WPGH LICENSEE, LLC  
WPXI-TV HOLDINGS, INC  
WRLH  
WTAE Hearst Television Inc.  
WVEC-TV, INC.  
WWBT, Inc.  
WWVU-FM  
Wire Tele-View Corporation  
Young Broadcasting-WRIC-TV (PTP) DIP

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: 11/08/2010  
Job Number: 101110COMSJC04

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### Administrative Information

Status: TEMPORARY (Operation from 12/19/2010 to 03/19/2011)  
Call Sign: TEMP03  
Licensee Code: INTNOA  
Licensee Name: Intelsat North America LLC

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### Site Information

**CLARKSBURG, MARYLAND**

Venue Name  
Latitude (NAD 83): 39° 13' 6.6" N  
Longitude (NAD 83): 77° 16' 15.3" W  
Climate Zone: A  
Rain Zone: 2  
Ground Elevation (AMSL): 145.39 m / 477.0 ft

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### Link Information

Satellite Type: Low Earth Orbit  
Mode: RO - Receive-Only  
Modulation: Digital  
Minimum Elevation Angle: 5.0°  
Azimuth Range: 0.0° to 360°  
Antenna Centerline (AGL): 9.45 m / 31.0 ft

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### Antenna Information

#### Receive

Manufacturer: TIW  
Model: 14.2 Meter  
Gain / Diameter: 62.0 dBi / 14.2 m  
3-dB / 15-dB Beamwidth: 0.20° / 0.40°

Interference Objectives:    Long Term    -156.0 dBW/MHz    20%  
   Short Term    -146.0 dBW/MHz    0.01%

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### Frequency Information

#### Receive 13.0 GHz

Emission / Frequency Range (MHz):  
150KGXD / 11699.0  
150KGXD / 12747.5

Max Great Circle Coordination Distance: 319.2 km / 198.3 mi  
Precipitation Scatter Contour Radius: 455.7 km / 283.1 mi

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## Earth Station Data Sheet

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

### Coordination Values

### CLARKSBURG, MD

Licensee Name Intelsat North America LLC  
Latitude (NAD 83) 39° 13' 6.6" N  
Longitude (NAD 83) 77° 16' 15.3" W  
Ground Elevation (AMSL) 145.39 m / 477.0 ft  
Antenna Centerline (AGL) 9.45 m / 31.0 ft  
Antenna Model TIW 14.2 Meter  
Antenna Mode Receive 13.0 GHz  
Interference Objectives: Long Term -156.0 dBW/MHz 20%  
Short Term -146.0 dBW/MHz 0.01%

| Azimuth (°) | Horizon<br>Elevation (°) | Antenna<br>Discrimination (°) | Receive 13.0 GHz      |                               |
|-------------|--------------------------|-------------------------------|-----------------------|-------------------------------|
|             |                          |                               | Horizon<br>Gain (dBi) | Coordination<br>Distance (km) |
| 0           | 0.00                     | 98.13                         | 4.50                  | 319.20                        |
| 5           | 0.00                     | 93.13                         | 4.50                  | 319.20                        |
| 10          | 0.00                     | 88.13                         | 4.50                  | 319.20                        |
| 15          | 0.00                     | 83.13                         | 4.50                  | 319.20                        |
| 20          | 0.00                     | 78.13                         | 4.50                  | 319.20                        |
| 25          | 0.00                     | 73.13                         | 4.50                  | 319.20                        |
| 30          | 0.00                     | 68.14                         | 4.50                  | 319.20                        |
| 35          | 0.00                     | 63.14                         | 4.50                  | 319.20                        |
| 40          | 0.00                     | 58.14                         | 4.50                  | 319.20                        |
| 45          | 0.00                     | 53.14                         | 4.50                  | 319.20                        |
| 50          | 0.00                     | 48.14                         | 4.50                  | 319.20                        |
| 55          | 0.00                     | 43.14                         | 4.50                  | 319.20                        |
| 60          | 0.00                     | 38.15                         | 4.50                  | 319.20                        |
| 65          | 0.00                     | 33.15                         | 4.50                  | 319.20                        |
| 70          | 0.00                     | 28.15                         | 4.50                  | 319.20                        |
| 75          | 0.00                     | 23.16                         | 4.50                  | 319.20                        |
| 80          | 0.00                     | 18.16                         | 4.50                  | 319.20                        |
| 85          | 0.00                     | 13.18                         | 4.50                  | 319.20                        |
| 90          | 0.00                     | 8.21                          | 4.50                  | 319.20                        |
| 95          | 0.00                     | 3.33                          | 4.50                  | 319.20                        |
| 100         | 0.00                     | 2.19                          | 4.50                  | 319.20                        |
| 105         | 0.00                     | 6.96                          | 4.50                  | 319.20                        |
| 110         | 0.00                     | 11.92                         | 4.50                  | 319.20                        |
| 115         | 0.00                     | 16.91                         | 4.50                  | 319.20                        |
| 120         | 0.00                     | 21.90                         | 4.50                  | 319.20                        |
| 125         | 0.00                     | 26.89                         | 4.50                  | 319.20                        |
| 130         | 0.00                     | 31.89                         | 4.50                  | 319.20                        |
| 135         | 0.00                     | 36.88                         | 4.50                  | 319.20                        |
| 140         | 0.00                     | 41.88                         | 4.50                  | 319.20                        |
| 145         | 0.00                     | 46.88                         | 4.50                  | 319.20                        |
| 150         | 0.00                     | 51.88                         | 4.50                  | 319.20                        |
| 155         | 0.00                     | 56.88                         | 4.50                  | 319.20                        |
| 160         | 0.00                     | 61.88                         | 4.50                  | 319.20                        |
| 165         | 0.00                     | 66.87                         | 4.50                  | 319.20                        |
| 170         | 0.00                     | 71.87                         | 4.50                  | 319.20                        |
| 175         | 0.00                     | 76.87                         | 4.50                  | 319.20                        |
| 180         | 0.00                     | 81.87                         | 4.50                  | 319.20                        |
| 185         | 0.00                     | 86.87                         | 4.50                  | 319.20                        |



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## Earth Station Data Sheet

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### Coordination Values

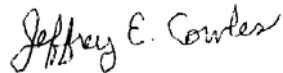
### CLARKSBURG, MD

Licensee Name                    Intelsat North America LLC  
Latitude (NAD 83)               39° 13' 6.6" N  
Longitude (NAD 83)              77° 16' 15.3" W  
Ground Elevation (AMSL)       145.39 m / 477.0 ft  
Antenna Centerline (AGL)       9.45 m / 31.0 ft  
Antenna Model                    TIW 14.2 Meter  
Antenna Mode                     Receive 13.0 GHz  
Interference Objectives: Long Term   -156.0 dBW/MHz   20%  
                                  Short Term       -146.0 dBW/MHz   0.01%

| Azimuth (°) | Horizon<br>Elevation (°) | Antenna<br>Discrimination (°) | Receive 13.0 GHz      |                               |
|-------------|--------------------------|-------------------------------|-----------------------|-------------------------------|
|             |                          |                               | Horizon<br>Gain (dBi) | Coordination<br>Distance (km) |
| 190         | 0.00                     | 91.87                         | 4.50                  | 319.20                        |
| 195         | 0.00                     | 96.87                         | 4.50                  | 319.20                        |
| 200         | 0.00                     | 101.87                        | 4.50                  | 319.20                        |
| 205         | 0.00                     | 106.87                        | 4.50                  | 319.20                        |
| 210         | 0.00                     | 111.86                        | 4.50                  | 319.20                        |
| 215         | 0.00                     | 116.86                        | 4.50                  | 319.20                        |
| 220         | 0.00                     | 121.86                        | 4.50                  | 319.20                        |
| 225         | 0.00                     | 126.86                        | 4.50                  | 319.20                        |
| 230         | 0.00                     | 131.86                        | 4.50                  | 319.20                        |
| 235         | 0.00                     | 136.86                        | 4.50                  | 319.20                        |
| 240         | 0.00                     | 141.85                        | 4.50                  | 319.20                        |
| 245         | 0.00                     | 146.85                        | 4.50                  | 319.20                        |
| 250         | 0.00                     | 151.85                        | 4.50                  | 319.20                        |
| 255         | 0.00                     | 156.84                        | 4.50                  | 319.20                        |
| 260         | 0.00                     | 161.84                        | 4.50                  | 319.20                        |
| 265         | 0.00                     | 166.82                        | 4.50                  | 319.20                        |
| 270         | 0.00                     | 171.79                        | 4.50                  | 319.20                        |
| 275         | 0.00                     | 176.67                        | 4.50                  | 319.20                        |
| 280         | 0.00                     | 177.82                        | 4.50                  | 319.20                        |
| 285         | 0.00                     | 173.04                        | 4.50                  | 319.20                        |
| 290         | 0.00                     | 168.08                        | 4.50                  | 319.20                        |
| 295         | 0.00                     | 163.09                        | 4.50                  | 319.20                        |
| 300         | 0.00                     | 158.10                        | 4.50                  | 319.20                        |
| 305         | 0.00                     | 153.11                        | 4.50                  | 319.20                        |
| 310         | 0.00                     | 148.11                        | 4.50                  | 319.20                        |
| 315         | 0.00                     | 143.12                        | 4.50                  | 319.20                        |
| 320         | 0.00                     | 138.12                        | 4.50                  | 319.20                        |
| 325         | 0.00                     | 133.12                        | 4.50                  | 319.20                        |
| 330         | 0.00                     | 128.12                        | 4.50                  | 319.20                        |
| 335         | 0.00                     | 123.12                        | 4.50                  | 319.20                        |
| 340         | 0.00                     | 118.12                        | 4.50                  | 319.20                        |
| 345         | 0.00                     | 113.13                        | 4.50                  | 319.20                        |
| 350         | 0.00                     | 108.13                        | 4.50                  | 319.20                        |
| 355         | 0.00                     | 103.13                        | 4.50                  | 319.20                        |

## 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.  
Ashburn, Va. 20147

DATED: November 19, 2010