

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for STA for Hagerstown, Maryland Earth Station KA258

I. Applicant

Name:	Intelsat License LLC	Phone Number:	202-944-7848
DBA Name:		Fax Number:	202-944-7870
Street:	c/o Intelsat Corporation 3400 International Drive, N.W.	E-Mail:	susan.crandall@intelsat.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20008 -3006
Attention:	Susan H. Crandall		

with conditions



File # SES-STA-20121029-00971

Call Sign KA258 Grant Date 11/29/2012
(or other identifier)

Term Dates

From 12/3/2012 To: 1/2/2013

Approved: Paul E. Boes

Conditions:

Applicant: Intelsat License LLC (Intelsat)

File Number: SES-STA-20121029-00971

Call Sign: KA258

Intelsat is authorized, for a period of 30 days, to perform telemetry, tracking, and command ("TT&C") operations to provide launch and early orbit phase services for the Eutelsat 70B (f/k/a Eutelsat W5A) satellite, licensed by France, that is expected to be launched on December 3, 2012. The in-orbit testing location will be the 51° E.L. orbital location. Eutelsat 70B's permanent location will be 70.5° E.L. Operations using the following center frequencies 14.250 GHz and 14.4998 GHz (Earth-to-space) and 11.1995 GHz and 11.7001 GHz (space-to-Earth) are authorized. Operations under this authorization are subject to the terms, conditions, and technical specifications set forth in Intelsat's application and the Federal Communications Commission's rules, and are subject to the conditions set forth below.

Conditions:

1. All operations under this grant of special temporary authority shall be on an unprotected and non-harmful interference basis. Intelsat shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
2. In the event of any harmful interference as a result of operations under this grant of special temporary authority, Intelsat shall cease operations immediately upon notification of such interference and shall immediately inform the Commission, in writing, of such an event.
3. The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path. All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs.
4. Operations while at any location shall not include the provision of commercial services.
5. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Intelsat's own risk.
6. This grant is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release.



File # SES-STA-20121029-00971
Call Sign KA258 Grant Date 11/29/2012
(or other identifier) Term Dates
From 12/3/2012 To: 1/2/2013
Approved: Paul E. H. [Signature]

2. Contact			
Name:	Susan H. Crandall	Phone Number:	202-944-7848
Company:	Intelsat Corporation	Fax Number:	202-944-7870
Street:	3400 International Drive, N.W.	E-Mail:	susan.crandall@intelsat.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20008 -3006
Attention:	Susan H. Crandall	Relationship:	Legal Counsel
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)			
3. Reference File Number or Submission ID			
4a. Is a fee submitted with this application? <input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114). <input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee <input type="radio"/> Other (please explain):			
4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station			
5. Type Request			
<input type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other			
6. Requested Use Prior Date			
7. City Hagerstown			
8. Latitude (dd mm ss.s h) 39 35 54.0 N			

9. State MD	10. Longitude (dd mm ss.s h) 77 45 33.0 W
11. Please supply any need attachments. Attachment 1: STA Request	Attachment 2: Exhibit A Attachment 3: Exhibit B
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)	<p>Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, from December 3, 2012 through January 1, 2013, to use its Hagerstown, Maryland Ku-band earth station, call sign KA258, to provide launch and early orbit phase services for the Eutelsat 70B satellite that is expected to be launched on December 3, 2012.</p>
13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application"; for these purposes.	<p style="text-align: center;">Yes <input checked="" type="radio"/> No <input type="radio"/></p>
14. Name of Person Signing Susan H. Crandall	15. Title of Person Signing Asst. General Counsel, Intelsat Corporation
<p style="text-align: center;">WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).</p>	

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

October 29, 2012

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554



Re: Request for Special Temporary Authority
Hagerstown, Maryland Earth Station KA258

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests a grant of Special Temporary Authority ("STA")¹ for 30 days, from December 3, 2012 through January 1, 2013, to use its Hagerstown, Maryland Ku-band earth station -- call sign KA258 -- to provide launch and early orbit phase ("LEOP") services for the Eutelsat 70B (f/k/a Eutelsat W5A) satellite that is expected to be launched on December 3, 2012.² The LEOP period is expected to last approximately ten days.³

The Eutelsat 70B LEOP operations will be performed in the following frequency bands: 14250.0 MHz and 14499.8 MHz in the uplink (LHCP and RHCP), and 11199.5 MHz and 11700.1 MHz in the downlink (LHCP and RHCP). The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path. All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs.

The 24x7 contact information for the Eutelsat 70B LEOP mission is as follows:

Ph.: (202) 944-7701 – East Coast Operations Center (primary)
(310) 525-5900 – West Coast Operations Center (back-up)

Request to speak with Harry Burnham or Kevin Bell.

In addition, Intelsat attaches Exhibits A and B, which contain a waiver request as well as technical information indicating that the operation of the earth station

¹ Intelsat has filed its STA request, an FCC Form 159, a \$180.00 filing fee and this supporting letter electronically via the International Bureau's Filing System ("IBFS").

² The permanent orbital location for Eutelsat 70B, which is licensed by France, will be 70.5° E.L. The in-orbit testing location will be 51° E.L.

³ Intelsat is seeking authority through January 1, 2013 to accommodate a possible launch delay.

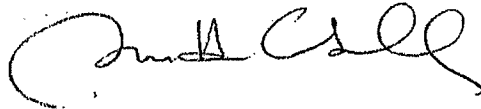
Ms. Marlene H. Dortch
October 29, 2012
Page 2

will be compatible with its electromagnetic environment and will not cause harmful interference into any lawfully operating terrestrial or government facility. In the extremely unlikely event that harmful interference should occur due to transmissions to or from its earth station, Intelsat will take all reasonable steps to eliminate the interference. Intelsat also notes that for purposes of the Eutelsat 70B LEOP mission, it is seeking to operate in the frequencies listed in the request at power levels not to exceed 26.5 dBW.

Grant of this STA request will allow Intelsat to help launch the Eutelsat 70B satellite. This, in turn, will help ensure continuity of service at the 70.5° E.L. orbital location and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (202) 944-7848.

Respectfully submitted,



Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

Cc: Paul Blais

Exhibit A

PETITION FOR WAIVER OF SECTIONS 25.137 AND 25.114

Pursuant to Section 25.137 of the Federal Communications Commission's ("Commission" or "FCC") rules, earth station applicants "requesting authority to operate with a non-U.S. licensed space station *to serve the United States*" must demonstrate that effective competitive opportunities exist and must provide the same technical information required by Section 25.114 for U.S.-licensed space stations.¹ Intelsat License LLC ("Intelsat") herein seeks authority to provide launch and early orbit phase ("LEOP") services -- not commercial services - - to the United States, and thus believes that Section 25.137 does not apply.

To the extent the Commission determines, however, that Intelsat's request for authority to provide LEOP services on a special temporary basis is a request to serve the United States with a non U.S.-licensed satellite, Intelsat respectfully requests a waiver of Sections 25.137 and 25.114 of the Commission's rules.² The Commission may grant a waiver for good cause shown.³ The Commission typically grants a waiver where the particular facts make strict compliance inconsistent with the public interest.⁴ In granting a waiver, the Commission may take into account considerations of hardship, equity, or more effective implementation of overall policy on an individual basis.⁵ Waiver is therefore appropriate if special circumstances warrant a deviation from the general rule, and such a deviation will serve the public interest.

In this case, good cause exists for a waiver of both Section 25.137 and Section 25.114. With respect to Section 25.114, Intelsat seeks authority only to provide LEOP services for the Eutelsat 70B (f/k/a Eutelsat W5A) satellite. The information sought by Section 25.114 is not relevant to LEOP services. Moreover, Intelsat does not have -- and would not easily be able to obtain -- such information because Intelsat is not the operator of the Eutelsat 70B satellite, nor is Intelsat in contractual privity with that operator. Rather, an affiliate of Intelsat has a contract with Telespazio, the LEOP mission manager hired by the manufacturer of the Eutelsat 70B satellite, to conduct LEOP services for the satellite.

The information that Intelsat is not including is not required to determine potential harmful interference. The Schedule S information for this satellite would pertain to the operation of the Eutelsat 70B satellite at its final orbital location. However, the present application for LEOP services involves communications *prior* to the satellite attaining its final location in the geostationary orbit. In other words, during the LEOP mission, the earth station will not be communicating with a satellite located in the geostationary orbit. Rather, it will be transmitting to a satellite traveling on its "transfer orbit" or "LEOP path", which starts immediately following its separation from a launch vehicle, and ends when the satellite reaches its geostationary orbital

¹ 47 C.F.R. § 25.137 (emphasis added).

² 47 C.F.R. §§ 25.137 and 25.114.

³ 47 C.F.R. §1.3.

⁴ *N.E. Cellular Tel. Co. v. FCC*, 897 F.2d 1164, 1166 (D.C. Cir. 1990) ("*Northeast Cellular*").

⁵ *WAIT Radio v. FCC*, 418 F.2d 1153, 1159 (D.C. Cir. 1969); *Northeast Cellular*, 897 F.2d at 1166.

location. Moreover, as with any STA, Intelsat will perform the LEOP services on a non-interference basis.

Because it is not relevant to the service for which Intelsat seeks authorization, and because obtaining the information would be a hardship, Intelsat seeks a waiver of all the information required by Section 25.114. Intelsat has provided in this STA request the required technical information that is relevant to the LEOP services for which Intelsat seeks authorization.

Good cause also exists to waive Section 25.137. Section 25.137 is designed to ensure that “U.S.-licensed satellite systems have effective competitive opportunities to provide analogous services” in other countries. Here, there is no service being provided by the satellite; it is simply being placed in its orbital location after separating from the launch vehicle. Thus, the purpose of the information required by Section 25.137 is not implicated here. For example, Section 25.137(d) requires earth station applicants requesting authority to operate with a non-U.S.-licensed space station that is not in orbit and operating to post a bond.⁶ The underlying purpose in having to post a bond—*i.e.*, to prevent warehousing of orbital locations by operators seeking to serve the United States—would not be served by requiring Intelsat to post a bond in order to provide approximately 10 days of LEOP services to the Eutelsat 70B satellite.

It is Intelsat’s understanding that Eutelsat 70B is licensed by France, which is a WTO-member country. It is also Intelsat’s understanding that at its permanent orbital location of 70.5° E.L., Eutelsat 70B will not serve the United States. Thus, the purposes of Section 25.137—to ensure that U.S. satellite operators enjoy “effective competitive opportunities” to serve foreign markets and to prevent warehousing of orbital locations serving the United States—will not be undermined by grant of this waiver request.

Finally, Intelsat notes that it expects to operate with the Eutelsat 70B satellite using its U.S. earth station for a period of approximately 10 days. Requiring Intelsat to obtain copious technical and legal information from an unrelated party, where there is no risk of harmful interference and the operations will cease after approximately 10 days, would pose undue hardship without serving underlying policy objectives. Given these particular facts, the waiver sought herein is plainly appropriate.

⁶ See 47 C.F.R. §25.137(d)(4).

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/Receive Earth Station
Operation Dates: 11/05/2012 - 01/15/2013

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 September 17, 2012.

Company

ADAMS COUNTY EMERGENCY MANAGEMENT AGENCY
ALLEGANY COLLEGE OF MARYLAND
ALLEGANY COUNTY GOVERNMENT
ART Licensing Corp.
AT&T COMMUNICATIONS OF MARYLAND INC
AT&T COMMUNICATIONS OF VIRGINIA INC
AT&T CORP
Aerbender, LLC
Airband Communications Inc
Albermarle, County of, Virginia
Allegheny County
Allentown SMSA Limited Partnership
Alltel Communications LLC-Southern VA
Alltel Communications of Petersburg Inc
Anadarko Petroleum Corporation
Atlantic Broadband (Delmar), LLC
Atlantic Broadband (Penn), LLC
Auburn Data Systems, LLC
BALTIMORE CITY DEPARTMENT OF PUBLIC WORK
BAY BROADBAND COMMUNICATIONS LLC
BLAIR COUNTY 911
Baltimore County of Maryland
Baltimore Gas and Electric Company
Bedford, County of
Believe Wireless, LLC
Berks, County of
Blaze Broadband
Blue Ridge Carriers
Bucks, County of
Buggs Island Telephone Cooperative, Inc.

Company (Continued)

CABELL COUNTY 911
CAMDEN COUNTY
CHESTER, COUNTY OF
CONXX, Inc.
CROWN COMMUNICATION, INC.
Cambria, County of
Cape May County Municipal Utilities Auth
Cape May County, MIS Department
Capital Communications of America
Cellco Partnership - Bridgeville, PA/WV
Cellco Partnership - Southern Virginia
Cellco Partnership- PA Region
Cellco Partnership-Newark-Dallas Verizon
Cellco Prtnrshp - Phil. Tri-State Rgn
Central Virginia Electric Cooperative
Chesterfield, County of
City of Laurel
City of Ocean City, MD
Clearwire Spectrum Holdings II, LLC
Clearwire Spectrum Holdings III, LLC
Clearwire Spectrum Holdings LLC
Commonwealth of Pennsylvania-Radio Proj.
Comprehensive Wireless LLC
Conterra Ultra Broadband, LLC
Converge Towers LLC
Coralinks
County of Burlington
County of Nelson
Cumberland, County of
D&E Communications, Inc.
DAUPHIN COUNTY EMERGENCY MANAGEMENT
Delaware Division of Communications
ECW Wireless, LLC
Eastern Energy Transport LLC
Eduro Networks LLC
Enoch Pratt Free Library
Exelon Generation Company, L.L.C
FEDERAL AVIATION ADMINISTRATION
FELHC, Inc.
Federal Communications Commission
FiberTower Network Services Corp.
First State Communications LLC
Franklin County Dept. of Emergency Servi
Frederick County
Fundamental Broadcasting LLC
GEORGE MASON UNIVERSITY INSTR FNDTION
GETWIRELESS.NET
GREATER PHILADELPHIA RADIO INC
Garden State Transmissions
Globecomm Systems, Inc.

Company (Continued)

Gloucester Township
Gray Television Licensee, Inc (WCAV)
Greene, County of (PA)
HENRICO COUNTY
Hanover, County of
Hardy Cellular Telephone Company
Harrisonburg-Rockingham ECC
High Voltage Communications LLC
Huntingdon County of
INDIANA, COUNTY OF
JEFFERSON COUNTY OF PENNSYLVANIA
JEFFERSON, COUNTY OF
Jefferson Microwave, LLC
Jubatus, LLC
Juniata County Emergency Services
Kent County Levy Court
Kentucky Commonwealth of KY Emerg Warnin
King George County
Kreider Networks
Kryptic Technologies
LACKAWANNA COMMUNICATIONS
LOWER SHORE BROADBAND COOPERATIVE
LYCOMING COUNTY
Lancaster County of
Last Mile Inc.
Lehigh, County of
Local Media TV Philadelphia
Loudoun County Public Schools
Loudoun County, Virginia
Loudoun Wireless LLC
M&T Bank
MAHANTANGO MOUNTAIN MICROWAVE
MB Microwave, LLC
MIT LINCOLN LABORATORY
MVC Research. LLC
Maryland Port Administration
Maryland Public Broadcasting Commission
Maryland State Highway Administration
Maryland, State of - Dept.of Info & Tech
MetroPCS AWS, LLC
Middle East Broadcasting Networks, Inc.
Mifflin County
Millersburg Area School District
Mobile Satellite Communications Inc
Montgomery, County of
NOROC Broadband LLC
National Radio Astronomy Observatory
Netrepid, Inc.
New Cingular Wireless PCS - Maryland
New Cingular Wireless PCS LLC - AL, MS,
New Cingular Wireless PCS LLC - DC

Company (Continued)

New Cingular Wireless PCS LLC - KY
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 of PA LLC
New Cingular Wireless PCS, LLC - PA
New Jersey State Dept of Transportation
New Jersey State Police
New Jersey Turnpike Authority-Pkwy Div
New Jersey, State of -NJ Transit
Newgig Networks, LLC
Nextlink Wireless, LLC
Norfolk Southern Railway
Northern Virginia Electric Cooperative
Ohio County Commission
PENNSYLVANIA MICROWAVE NETWORK INC.
PENNSYLVANIA TURNPIKE COMMISSION
Page County Broadband Authority
Peco Energy Company
Pennsylvania 3 Sector 2, L.P.
Peoples Natural Gas Company
Philly Sports Wireless
Pitt Power
Pittsburgh, City of (PA)
Pontis Communications, Inc.
Port Networks, LLC
Posen Pipeline Properties
Public Broadcasting Service
QUALCOMM INC.
RADIO ONE, INC - MD
RAYTHEON COMPANY
Radio One, Inc
RapidDSL & Wireless, Inc.
Roadstar Internet, Inc.
Rural Broadband Network Services LLC
SCHUYLKILL, COUNTY OF
SCTF NET
SECOM NET
SIGNAL MEDIA OF ARKANSAS
SOMERSET COUNTY
SOUTHEASTERN PENNSYLVANIA TRANSIT AUTH
SW Networks
Salem County Information Technology
Shenandoah Personal Communications, LLC
Shentel
Somerset County, Maryland
Southern Maryland Electric Cooperative I
Sprint Spectrum, LP

Company (Continued)

Stafford, County of
State of Maryland, MIEMSS
State of WV DHHR/BPH STECS
Sullivan, County of
Sussex County Council
Synergy Telecommunications Corp
T-Mobile License LLC
THE HERSHEY COMPANY
TOWNSQUARE MEDIA ATLANTIC CITY LICENSE,
TRF SERVICES LLC
TWO WAY RADIO INC.
Telecom Transport Management, Inc
Thought Transmissions, LLC
Turtle Networks 6384
Turtle Networks 6386
Turtle Networks 6423
Turtle Networks 6444
Turtle Networks 6467
UNIVERSITY OF MARYLAND
USCOC of Cumberland, Inc.
USCOC of Virginia RSA #3, Inc.
Union, County Of
Velox Networks LLC
Verizon Maryland, Inc.
Verizon New Jersey, Inc.
Verizon Virginia, Inc.
Verizon Wireless (VAW) LLC (NY)
Verizon Wireless (VAW) LLC- IN & KY Mkt
Verizon Wireless (VAW) LLC-Pennsylvania
Verizon Wireless VAW LLC-Southern VA
Virginia Broadband, LLC
Virginia Electric & Power Company
Virginia PCS Alliance, L.C.
Virginia RSA #7, Inc.
Virginia Tech Foundation , Inc.
WEST VIRGINIA RADIO CORPORATION
WHYY, INC.
WICOMICO BOARD OF EDUCATION
WPNT, Inc.
Warrenton Fauquier Joint Communications
Washington Gas Light Company
Washington Suburban Sanitary Commission
West Virginia PCS Alliance, L.C.
Western PA Internet Access, Inc.
Wireless Backhaul Infrastructure, LLC
Wireless Infrastructure Partners, LLC
Wireless Internet Work II.
Wireless Internetwork LLC
World Class Wireless LLC

Company (Continued)

York County Dept of Emergency Services
Zen Networks, Inc
iSignal

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: 10/10/2012
Job Number: 120917COMSJC02

Administrative Information

Status: TEMPORARY (Operation from 11/05/2012 to 01/15/2013)
Call Sign: TEMP01
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' 33.0" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 174.65 m / 573.0 ft

Link Information

Satellite Type: Geostationary
Mode: TR - Transmit-Receive
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): 9.45 m / 31.0 ft

Antenna Information

	Receive	Transmit
Manufacturer	TIW	TIW
Model	14.2 Meter	14.2 Meter
Gain / Diameter	62.0 dBi / 14.2 m	65.1 dBi / 14.2 m
3-dB / 15-dB Beamwidth	0.20° / 0.40°	0.10° / 0.20°
Max Available RF Power	(dBW/4 kHz) (dBW/MHz)	-0.2 23.8
Maximum EIRP	(dBW/4 kHz) (dBW/MHz) (dBW)	64.9 88.9 88.0
Interference Objectives:	Long Term Short Term 0.0025%	-156.0 dBW/MHz -146.0 dBW/MHz 20% 0.01%
		-151.0 dBW/4 kHz -128.0 dBW/4 kHz 20%

Frequency Information

	Receive 11.0 GHz	Transmit 14.0 GHz
Emission / Frequency Range (MHz)	282KF2D / 11199.5 282KF2D / 11200.2 282KF2D / 11699.8 282KF2D / 11700.1	816KF2D / 14250.0 816KF2D / 14499.8
Max Great Circle Coordination Distance	697.5 km / 433.4 mi	466.3 km / 289.7 mi
Precipitation Scatter Contour Radius	602.2 km / 374.2 mi	164.2 km / 102.0 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	Intelsat License LLC		
Latitude (NAD 83)	39° 35' 54.0" N		
Longitude (NAD 83)	77° 45' 33.0" W		
Ground Elevation (AMSL)	174.65 m / 573.0 ft		
Antenna Centerline (AGL)	9.45 m / 31.0 ft		
Antenna Model	TIW 14.2 Meter		
Antenna Mode	Receive 11.0 GHz		Transmit 14.0 GHz
Interference Objectives:	Long Term	-156.0 dBW/MHz 20%	-151.0 dBW/4 kHz 20%
	Short Term	-146.0 dBW/MHz 0.01%	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power			-0.2 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 11.0 GHz		Transmit 14.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	101.81	-10.00	231.37	-10.00	153.85
5	0.00	96.84	-10.00	231.37	-10.00	153.85
10	0.00	91.86	-10.00	231.37	-10.00	153.85
15	0.00	86.88	-10.00	231.37	-10.00	153.85
20	0.00	81.90	-10.00	231.37	-10.00	153.85
25	0.00	76.92	-10.00	231.37	-10.00	153.85
30	0.00	71.95	-10.00	231.37	-10.00	153.85
35	0.00	66.97	-10.00	231.37	-10.00	153.85
40	0.00	62.00	-10.00	231.37	-10.00	153.85
45	0.00	57.03	-10.00	231.37	-10.00	153.85
50	0.00	52.06	-10.00	231.37	-10.00	153.85
55	0.00	47.09	-9.82	232.14	-9.82	154.48
60	0.00	42.14	-8.62	237.52	-8.62	158.88
65	0.00	37.19	-7.26	243.78	-7.26	165.50
70	0.00	32.26	-5.72	251.29	-5.72	171.37
75	0.00	27.34	-3.92	260.19	-3.92	178.19
80	0.00	22.47	-1.79	271.24	-1.79	186.29
85	0.00	17.65	0.83	285.48	0.83	196.24
90	0.00	12.98	4.17	301.98	4.17	208.21
95	0.00	8.66	8.56	332.93	8.56	226.21
100	0.00	5.61	13.27	697.52	13.27	466.32
105	0.00	6.15	12.28	470.23	12.28	308.94
110	0.00	9.60	7.45	324.46	7.45	221.52
115	0.00	13.27	3.93	300.47	3.93	207.26
120	0.00	16.89	1.31	288.17	1.31	198.06
125	0.00	20.41	-0.75	276.81	-0.75	190.25
130	0.00	23.83	-2.43	267.88	-2.43	183.87
135	0.00	27.11	-3.83	260.66	-3.83	178.54
140	0.00	30.23	-5.01	254.75	-5.01	174.05
145	0.00	33.14	-6.01	249.86	-6.01	170.26
150	0.00	35.82	-6.85	245.83	-6.85	167.05
155	0.00	38.20	-7.55	242.41	-7.55	164.39
160	0.00	40.26	-8.12	239.78	-8.12	160.73
165	0.00	41.93	-8.56	237.77	-8.56	159.08
170	0.00	43.16	-8.88	236.35	-8.88	157.91
175	0.00	43.92	-9.07	235.50	-9.07	157.22
180	0.00	44.18	-9.13	235.21	-9.13	156.99
185	0.00	43.92	-9.07	235.49	-9.07	157.22

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Earth Station Data Sheet

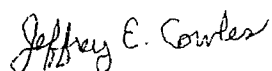
19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values	HAGERSTOWN, MD		
Licensee Name	Intelsat License LLC		
Latitude (NAD 83)	39° 35' 54.0" N		
Longitude (NAD 83)	77° 45' 33.0" W		
Ground Elevation (AMSL)	174.65 m / 573.0 ft		
Antenna Centerline (AGL)	9.45 m / 31.0 ft		
Antenna Model	TIW 14.2 Meter		
Antenna Mode	Receive 11.0 GHz		Transmit 14.0 GHz
Interference Objectives:	Long Term	-156.0 dBW/MHz 20%	-151.0 dBW/4 kHz 20%
	Short Term	-146.0 dBW/MHz 0.01%	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power	-0.2 (dBW/4 kHz)		

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 11.0 GHz		Transmit 14.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	43.16	-8.88	236.35	-8.88	157.91
195	0.00	41.93	-8.56	237.77	-8.56	159.08
200	0.00	40.26	-8.12	239.78	-8.12	160.73
205	0.00	38.20	-7.55	242.41	-7.55	164.39
210	0.00	35.81	-6.85	245.83	-6.85	167.06
215	0.00	33.14	-6.01	249.87	-6.01	170.26
220	0.00	30.22	-5.01	254.75	-5.01	174.06
225	0.00	27.11	-3.83	260.66	-3.83	178.54
230	0.00	23.83	-2.43	267.87	-2.43	183.86
235	0.00	20.42	-0.75	276.80	-0.75	190.24
240	0.00	16.89	1.31	288.19	1.31	198.07
245	0.00	13.28	3.92	300.45	3.92	207.24
250	0.00	9.59	7.46	324.54	7.46	221.57
255	0.00	6.33	11.96	485.51	11.96	319.97
260	0.00	6.11	12.35	669.65	12.35	446.37
265	0.00	9.18	7.93	328.06	7.93	223.53
270	0.00	13.46	3.77	299.52	3.77	206.66
275	0.00	18.11	0.55	283.95	0.55	195.20
280	0.00	22.90	-2.00	270.15	-2.00	185.51
285	0.00	27.76	-4.09	259.36	-4.09	177.56
290	0.00	32.66	-5.85	250.63	-5.85	170.86
295	0.00	37.59	-7.38	243.24	-7.38	165.06
300	0.00	42.53	-8.72	237.07	-8.72	158.51
305	0.00	47.48	-9.91	231.75	-9.91	154.16
310	0.00	52.44	-10.00	231.37	-10.00	153.85
315	0.00	57.40	-10.00	231.37	-10.00	153.85
320	0.00	62.37	-10.00	231.37	-10.00	153.85
325	0.00	67.34	-10.00	231.37	-10.00	153.85
330	0.00	72.31	-10.00	231.37	-10.00	153.85
335	0.00	77.28	-10.00	231.37	-10.00	153.85
340	0.00	82.26	-10.00	231.37	-10.00	153.85
345	0.00	87.23	-10.00	231.37	-10.00	153.85
350	0.00	92.21	-10.00	231.37	-10.00	153.85
355	0.00	97.18	-10.00	231.37	-10.00	153.85

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: October 10, 2012