EXHIBIT A

INTELSAT LICENSE LLC SPECIAL TEMPORARY AUTHORITY REQUEST EARTH STATION KA258 LEOP SERVICES FOR ASTRA-2F SATELLITE

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. 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 Astra-2F 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 Astra-2F satellite, nor is Intelsat in contractual privity with that operator. Rather, an affiliate of Intelsat has a contract with EADS Astrium, the manufacturer of the Astra-2F 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 Astra-2F 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

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.

path", which starts immediately following its separation from a launch vehicle, and ends when the satellite reaches its geostationary orbital 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. 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 ten days of LEOP services to the Astra-2F satellite.

It is Intelsat's understanding that Astra-2F is licensed by Luxembourg, which is a WTO-member country. 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 Astra-2F satellite using its U.S. earth station for a period of approximately ten 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 ten 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).

EXHIBIT B

INTELSAT LICENSE LLC SPECIAL TEMPORARY AUTHORITY REQUEST EARTH STATION KA258 LEOP SERVICES FOR ASTRA-2F SATELLITE

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: 09/05/2012 - 11/05/2012

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 July 26, 2012.

Company

ACC License, LLC ADAMS COUNTY EMERGENCY MANAGEMENT AGENCY ALLEGANY COUNTY GOVERNMENT APC Realty and Equipment CO LLC ARLINGTON COUNTY EMERGENCY COMM CTR ART Licensing Corp. AT&T CORP Airband Communications Inc. B.F. SAUL COMPANY BUSINESS INFORMATION GROUP, INC. Believe Wireless, LLC Blaze Broadband **Boeing Company** CAMP HILL SCHOOL DISTRICT **CBS** Broadcasting Inc CECIL COUNTY PUBLIC SCHOOLS **CNG Transmission Corporation** CRISPUS ATTUCKS ASSOCIATION Calvert County Government Cambria, County of Cape May County Municipal Utilities Auth Cape May County, MIS Department Carlisle Area School District City of Altoona Clearwire Spectrum Holdings III, LLC Commissioners of Caroline County Conterra Ultra Broadband, LLC Cumberland County, New Jersey Cumberland Valley School District

DOVER AREA SCHOOL DISTRICT Delmarva Power & Light Company

ECW Wireless, LLC

East Pennsboro Area School

Eastern Lancaster County School District

Eduro Networks LLC

Enoch Pratt Free Library

Federal Communications Commission

Franklin County Dept. of Emergency Servi

GETWIRELESS.NET

George Washington University

Glenville State University

HALIFAX AREA SCHOOL DISTRICT

Harrison County Emergency Services

Hope Gas, Inc.

Kreider Networks

LANCASTER GENERAL HOSPITAL

Last Mile Inc.

Loudoun Wireless LLC

Loudoun, County of

MARYLAND, STATE OF - MDOT - MTA

MLS ENGINEERING

MetroPCS AWS, LLC

NBC TELEMUNDO LICENSE LLC

NEXSTAR BROADCASTING, INC.

National Radio Astronomy Observatory

Netrepid, Inc.

New Cingular Wireless PCS LLC - AZ

New Cingular Wireless PCS LLC - DC

New Cingular Wireless PCS LLC- WV/NC/SC

New Cingular Wireless PCS, LLC - PA

Nextlink Wireless, LLC

Northern York County School District

PENNSYLVANIA MIČROWAVE NETWORK INC.

PENNSYLVANIA TURNPIKE COMMISSION

Prince William, County of

RapidDSL & Wireless, Inc.

Red Rose Transit Authority

Red Zebra Broadcasting Licensee, LLC

Roadstar Internet, Inc.

SHIPPENSBURG AREA SCHOOL DISTRICT

SOMERSET COUNTY

SUSQUEHANNA TOWNSHIP SCHOOL DISTRICT

Shenandoah Personal Communications Co

Sprint Spectrum, LP

State of WV DHHR/BPH STECS

Steelton-Highspire School District

Telecom Transport Management, Inc.

Turtle Networks 6444

WASHINGTON CABLE SYSTEMS INC

WINEMILLER COMMUNICATIONS, INC.

WKYSFM, INC

Washington Metro Area Transit Police Dep

West Virginia PCS Alliance, L.C. Western PA Internet Access, Inc. Windstream D&E Systems, Inc. Wireless Internetwork LLC World Class Wireless LLC York County Dept of Emergency Services York Water Co

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.

Earth Station Data Sheet

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

Date: 08/23/2012

Job Number: 120726COMSJC04

Administrative Information

Status TEMPORARY (Operation from 09/05/2012 to 11/05/2012)

Call Sign TEMP11 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 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) 9.45 m / 31.0 ft

Antenna Information Transmit
Manufacturer TIW

Model 14.2 Meter
Gain / Diameter 65.1 dBi / 14.2 m
3-dB / 15-dB Beamwidth 0.10° / 0.20°

Max Available RF Power (dBW/4 kHz) -0.4

(dBW/MHz) 23.6

Maximum EIRP (dBW/4 kHz) 64.7 (dBW/MHz) 88.7

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%

Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information Transmit 18.0 GHz

Emission / Frequency Range (MHz) 832KFXD / 17311.0

Max Great Circle Coordination Distance 444.4 km / 276.1 mi Precipitation Scatter Contour Radius 186.6 km / 116.0 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

Licensee Name
Latitude (NAD 83)
Longitude (NAD 83)
Ground Elevation (AMSL)
Antenna Centerline (AGL)
Antenna Model
Intersat License LLC
39° 35' 54.0" N
174° 45' 33.0" W
174.65 m / 573.0 ft
9.45 m / 31.0 ft
TIW 14.2 Meter

Antenna Mode Transmit 18.0 GHz

Interference Objectives: Long Term -154.0 dBW/4 kHz 20% Short Term -131.0 dBW/4 kHz 0.0025%

Max Available RF Power -0.4 (dBW/4 kHz)

	Transmit 18.0 GHZ				
	Horizon	Antenna	Horizon	Coordination	
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)	
0	0.00	101.81	-10.00	152.75	
5	0.00	96.84	-10.00	152.75	
10	0.00	91.86	-10.00	152.75	
15	0.00	86.88	-10.00	152.75	
20	0.00	81.90	-10.00	152.75	
25	0.00	76.92	-10.00	152.75	
30	0.00	71.95	-10.00	152.75	
35	0.00	66.97	-10.00	152.75	
40	0.00	62.00	-10.00	152.75	
45	0.00	57.03	-10.00	152.75	
50	0.00	52.06	-10.00	152.75	
55	0.00	47.09	-9.82	153.31	
60	0.00	42.14	-8.62	157.23	
65	0.00	37.19	-7.26	162.24	
70	0.00	32.26	-5.72	167.47	
75	0.00	27.34	-3.92	173.65	
80	0.00	22.47	-1.79	181.18	
85	0.00	17.65	0.83	190.66	
90	0.00	12.98	4.17	202.98	
95	0.00	8.66	8.56	220.51	
100	0.00	5.61	13.27	444.41	
105	0.00	6.15	12.28	302.62	
110	0.00	9.60	7.45	215.96	
115	0.00	13.27	3.93	202.04	
120	0.00	16.89	1.31	192.42	
125	0.00	20.41	-0.75	184.91	
130	0.00	23.83	-2.43	178.90	
135	0.00	27.11	-3.83	173.98	
140	0.00	30.23	-5.01	169.88	
145	0.00	33.14	-6.01	166.47	
150	0.00	35.82	-6.85	163.61	
155	0.00	38.20	-7.55	161.26	
160	0.00	40.26	-8.12	159.37	
165	0.00	41.93	-8.56	157.41	
170	0.00	43.16	-8.88	156.38	
175	0.00	43.92	-9.07	155.76	
180	0.00	44.18	-9.13	155.55	

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 Transmit 18.0 GHz

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%

Short Term -131.0 dBW/4 kHz 0.0025%

Max Available RF Power -0.4 (dBW/4 kHz)

	Transmit 10.0 Griz				
	Horizon	Antenna	Horizon	Coordination	
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)	
185	0.00	43.92	-9.07	155.76	
190	0.00	43.16	-8.88	156.38	
195	0.00	41.93	-8.56	157.41	
200	0.00	40.26	-8.12	159.37	
205	0.00	38.20	-7.55	161.26	
210	0.00	35.81	-6.85	163.62	
215	0.00	33.14	-6.01	166.47	
220	0.00	30.22	-5.01	169.89	
225	0.00	27.11	-3.83	173.98	
230	0.00	23.83	-2.43	178.90	
235	0.00	20.42	-0.75	184.91	
240	0.00	16.89	1.31	192.44	
245	0.00	13.28	3.92	202.03	
250	0.00	9.59	7.46	216.01	
255	0.00	6.33	11.96	312.84	
260	0.00	6.11	12.35	426.25	
265	0.00	9.18	7.93	217.91	
270	0.00	13.46	3.77	201.46	
275	0.00	18.11	0.55	189.65	
280	0.00	22.90	-2.00	180.44	
285	0.00	27.76	-4.09	173.08	
290	0.00	32.66	-5.85	167.00	
295	0.00	37.59	-7.38	161.85	
300	0.00	42.53	-8.72	156.90	
305	0.00	47.48	-9.91	153.03	
310	0.00	52.44	-10.00	152.75	
315	0.00	57.40	-10.00	152.75	
320	0.00	62.37	-10.00	152.75	
325	0.00	67.34	-10.00	152.75	
330	0.00	72.31	-10.00	152.75	
335	0.00	77.28	-10.00	152.75	
340	0.00	82.26	-10.00	152.75	
345	0.00	87.23	-10.00	152.75	
350	0.00	92.21	-10.00	152.75	
355	0.00	97.18	-10.00	152.75	

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

Jeffrey E. Cowles

Engineer III, Telecommunications

COMSEARCH

19700 Janelia Farm Blvd.

Ashburn, Va. 20147

DATED: August 23, 2012

EXHIBIT C

INTELSAT LICENSE LLC SPECIAL TEMPORARY AUTHORITY REQUEST EARTH STATION KA258 LEOP SERVICES FOR ASTRA-2F SATELLITE

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: 09/05/2012 - 11/05/2012

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 July 30, 2012.

Company

ACC License, LLC ADAMS COUNTY EMERGENCY MANAGEMENT AGENCY ALLEGANY COUNTY GOVERNMENT APC Realty and Equipment CO LLC ARLINGTON COUNTY EMERGENCY COMM CTR ART Licensing Corp. AT&T CORP Airband Communications Inc. B.F. SAUL COMPANY BUSINESS INFORMATION GROUP, INC. Believe Wireless, LLC Blaze Broadband **Boeing Company** CAMP HILL SCHOOL DISTRICT **CBS** Broadcasting Inc CECIL COUNTY PUBLIC SCHOOLS **CNG Transmission Corporation** CRISPUS ATTUCKS ASSOCIATION Calvert County Government Cambria, County of Cape May County Municipal Utilities Auth Cape May County, MIS Department Carlisle Area School District City of Altoona Clearwire Spectrum Holdings III, LLC Commissioners of Caroline County Conterra Ultra Broadband, LLC Cumberland County, New Jersey Cumberland Valley School District

DOVER AREA SCHOOL DISTRICT Delmarva Power & Light Company

ECW Wireless, LLC

East Pennsboro Area School

Eastern Lancaster County School District

Eduro Networks LLC

Enoch Pratt Free Library

Federal Communications Commission

Franklin County Dept. of Emergency Servi

GETWIRELESS.NET

George Washington University

Glenville State University

HALIFAX AREA SCHOOL DISTRICT

Harrison County Emergency Services

Hope Gas. Inc.

Kreider Networks

LANCASTER GENERAL HOSPITAL

Last Mile Inc.

Loudoun Wireless LLC

Loudoun, County of

MARYLAND, STATE OF - MDOT - MTA

MLS ENGINEERING

MetroPCS AWS, LLC

NBC TELEMUNDO LICENSE LLC

NEXSTAR BROADCASTING, INC.

National Radio Astronomy Observatory

Netrepid, Inc.

New Cingular Wireless PCS LLC - AZ

New Cingular Wireless PCS LLC - DC

New Cingular Wireless PCS LLC- WV/NC/SC

New Cingular Wireless PCS, LLC - PA

Nextlink Wireless, LLC

Northern York County School District

PENNSYLVANIA MICROWAVE NETWORK INC.

PENNSYLVANIA TURNPIKE COMMISSION

Prince William, County of

RapidDSL & Wireless, Inc.

Red Rose Transit Authority

Red Zebra Broadcasting Licensee, LLC

Roadstar Internet, Inc.

SHIPPENSBURG AREA SCHOOL DISTRICT

SOMERSET COUNTY

SUSQUEHANNA TOWNSHIP SCHOOL DISTRICT

Shenandoah Personal Communications Co

Sprint Spectrum, LP

State of WV DHHR/BPH STECS

Steelton-Highspire School District

Telecom Transport Management, Inc.

Turtle Networks 6444

WASHINGTON CABLE SYSTEMS INC

WINEMILLER COMMUNICATIONS, INC.

WKYSFM, INC

Washington Metro Area Transit Police Dep

West Virginia PCS Alliance, L.C.
Western PA Internet Access, Inc.
Windstream D&E Systems, Inc.
Wireless Internetwork LLC
World Class Wireless LLC
York County Dept of Emergency Services
York Water Co

Society of Broadcast Engineers Coordinators

Maryland & DC – James Snyder Pennsylvania – Central (Rick Markey)

Pennsylvania – SE, Delaware, and S. New Jersey (Jeff DePolo)

Pennsylvania – S. Central (Matt Lightner)

Pennsylvania – Western/Pittsburgh (Otto Schellin)

West Virginia – Entire State (Randy Kerbawy)

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.

Earth Station Data Sheet

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

Date: 08/23/2012

Job Number: 120730COMSJC03

Administrative Information

Status TEMPORARY (Operation from 09/05/2012 to 11/05/2012)

Call Sign TEMP11 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 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) 9.45 m / 31.0 ft

Antenna Information Transmit

Manufacturer TIW

 Model
 14.2 Meter

 Gain / Diameter
 65.1 dBi / 14.2 m

 3-dB / 15-dB Beamwidth
 0.10° / 0.20°

Max Available RF Power (dBW/4 kHz) -0.4

(dBW/MHz) 23.6

Maximum EIRP (dBW/4 kHz) 64.7 (dBW/MHz) 88.7

(dBW) 88.0

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%

Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information Transmit 18.0 GHz

Emission / Frequency Range (MHz) 832KFXD / 18088.5

Max Great Circle Coordination Distance
Precipitation Scatter Contour Radius
444.4 km / 276.1 mi
186.6 km / 116.0 mi

COMSEARCH Earth Station Data Sheet

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

Coordination ValuesHAGERSTOWN, MDLicensee NameIntelsat 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 Transmit 18.0 GHz

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%

Short Term -131.0 dBW/4 kHz 0.0025%

Max Available RF Power -0.4 (dBW/4 kHz)

	Transmit 16.0 Griz				
	Horizon	Antenna	Horizon	Coordination	
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)	
0	0.00	101.81	-10.00	152.75	
5	0.00	96.84	-10.00	152.75	
10	0.00	91.86	-10.00	152.75	
15	0.00	86.88	-10.00	152.75	
20	0.00	81.90	-10.00	152.75	
25	0.00	76.92	-10.00	152.75	
30	0.00	71.95	-10.00	152.75	
35	0.00	66.97	-10.00	152.75	
40	0.00	62.00	-10.00	152.75	
45	0.00	57.03	-10.00	152.75	
50	0.00	52.06	-10.00	152.75	
55	0.00	47.09	-9.82	153.31	
60	0.00	42.14	-8.62	157.23	
65	0.00	37.19	-7.26	162.24	
70	0.00	32.26	-5.72	167.47	
75 75	0.00	27.34	-3.92	173.65	
80	0.00	22.47	-1.79	181.18	
85	0.00	17.65	0.83	190.66	
90	0.00	12.98	4.17	202.98	
95 95	0.00	8.66	8.56	220.51	
100	0.00	5.61	13.27	444.41	
105	0.00	6.15	12.28	302.62	
110	0.00	9.60	7.45	215.96	
115	0.00	13.27	3.93	202.04	
120	0.00	16.89	1.31	192.42	
125	0.00	20.41	-0.75	184.91	
		-			
130 135	0.00 0.00	23.83 27.11	-2.43 -3.83	178.90 173.98	
	0.00				
140		30.23	-5.01	169.88	
145	0.00	33.14	-6.01	166.47	
150	0.00	35.82	-6.85	163.61	
155	0.00	38.20	-7.55	161.26	
160	0.00	40.26	-8.12	159.37	
165	0.00	41.93	-8.56	157.41	
170	0.00	43.16	-8.88	156.38	
175	0.00	43.92	-9.07	155.76	
180	0.00	44.18	-9.13	155.55	
185	0.00	43.92	-9.07	155.76	

Earth Station Data Sheet

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

Coordination Values
Licensee Name
Licensee Name
Latitude (NAD 83)
Longitude (NAD 83)
Ground Elevation (AMSL)
Antenna Centerline (AGL)
Antenna Model

HAGERSTOWN, MD
Intelsat License LLC
39° 35' 54.0" N
77° 45' 33.0" W
174.65 m / 573.0 ft
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TIW 14.2 Meter

Antenna Mode Transmit 18.0 GHz

Interference Objectives: Long Term -154.0 dBW/4 kHz 20%

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Max Available RF Power -0.4 (dBW/4 kHz)

	Tansini 16.0 GHZ				
	Horizon	Antenna	Horizon	Coordination	
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)	
190	0.00	43.16	-8.88	156.38	
195	0.00	41.93	-8.56	157.41	
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205	0.00	38.20	-7.55	161.26	
210	0.00	35.81	-6.85	163.62	
215	0.00	33.14	-6.01	166.47	
220	0.00	30.22	-5.01	169.89	
225	0.00	27.11	-3.83	173.98	
230	0.00	23.83	-2.43	178.90	
235	0.00	20.42	-0.75	184.91	
240	0.00	16.89	1.31	192.44	
245	0.00	13.28	3.92	202.03	
250	0.00	9.59	7.46	216.01	
255	0.00	6.33	11.96	312.84	
260	0.00	6.11	12.35	426.25	
265	0.00	9.18	7.93	217.91	
270	0.00	13.46	3.77	201.46	
275	0.00	18.11	0.55	189.65	
280	0.00	22.90	-2.00	180.44	
285	0.00	27.76	-4.09	173.08	
290	0.00	32.66	-5.85	167.00	
295	0.00	37.59	-7.38	161.85	
300	0.00	42.53	-8.72	156.90	
305	0.00	47.48	-9.91	153.03	
310	0.00	52.44	-10.00	152.75	
315	0.00	57.40	-10.00	152.75	
320	0.00	62.37	-10.00	152.75	
325	0.00	67.34	-10.00	152.75	
330	0.00	72.31	-10.00	152.75	
335	0.00	77.28	-10.00	152.75	
340	0.00	82.26	-10.00	152.75	
345	0.00	87.23	-10.00	152.75	
350	0.00	92.21	-10.00	152.75	
355	0.00	97.18	-10.00	152.75	

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

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COMSEARCH

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DATED: <u>August 23, 2012</u>