



**INTELSAT**

*Envision. Connect. Transform.*

November 19, 2014

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

Re: Requests for Special Temporary Authority  
Hagerstown, Maryland Earth Stations KA258  
File Nos. SES-STA-20141030-00833

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein supplements its above referenced request for Special Temporary Authority (“STA”) to use the above referenced earth station located at its Hagerstown, Maryland teleport to provide launch and early orbit phase (“LEOP”) for the Astra-2G satellite that is expected to be launched on November 28, 2014.

Specifically, Intelsat attaches as Exhibit C the recently completed coordination report demonstrating that the operation of the earth station will be compatible with its electromagnetic environment and will not cause harmful interference into any lawfully operating terrestrial facility.

Please direct any further questions regarding this STA request to the undersigned at (703) 559-6949.

Sincerely,

Cynthia J. Grady  
Regulatory Counsel  
Intelsat Corporation

cc: Paul Blais

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: 11/26/2014 - 03/01/2015

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 October 29, 2014.

Company

ALLEGANY COUNTY GOVERNMENT  
APC Realty and Equipment CO LLC  
Adams County Department of Emergency Svc  
Affiniti PA, LLC  
Airband Communications Inc  
Arlington County Emergency Comm Ctr  
B.F. SAUL COMPANY  
BUSINESS INFORMATION GROUP, INC.  
Believe Wireless, LLC  
Blaze Broadband  
Blue Ridge Carriers  
Boeing Company  
CAMP HILL SCHOOL DISTRICT  
CBS Broadcasting Inc  
CBS Communication Services Inc  
CECIL COUNTY PUBLIC SCHOOLS  
CNG Transmission Corporation  
CONXX, Inc.  
CRISPUS ATTUCKS ASSOCIATION  
Cable Of The Carolinas  
Calvert, County of  
Cambria, County of  
Cape May County Municipal Utilities Auth  
Cape May County, MIS Department  
Carlisle Area School District  
Chesapeake Television Licensee, LLC  
City of Altoona  
Clearwire Spectrum Holdings III, LLC  
Commissioners of Caroline County

Company (Continue)

Conterra Ultra Broadband, LLC  
County of York  
Cumberland County, New Jersey  
Cumberland Valley School District  
DELAWARE RIVER & BAY AUTHORITY  
DOVER AREA SCHOOL DISTRICT  
Delmarva Power and Light Company  
ECW Wireless, LLC  
East Pennsboro Area School  
Eastern Lancaster County School District  
Enoch Pratt Free Library  
Federal Communications Commission  
Franklin County Dept. of Emergency Servi  
Fundamental Broadcasting LLC  
GETWIRELESS.NET  
George Washington University  
Glenville State University  
HALIFAX AREA SCHOOL DISTRICT  
Harrison County Emergency Services  
High Voltage Communications LLC  
Home Sales Company, Inc  
Hope Gas, Inc.  
LANCASTER GENERAL HOSPITAL  
Limitless Mobile Holdings, LLC  
Loudoun Wireless LLC  
Loudoun, County of  
MLS Engineering  
MVC Research. LLC  
Maryland Port Administration  
Maryland, State Of - MDOT - MTA  
NBC Telemundo License LLC  
NEXSTAR BROADCASTING, INC.  
National Tower Company LLC  
Netrepid, Inc.  
New Cingular Wireless PCS LLC - AZ  
New Cingular Wireless PCS - Maryland  
New Cingular Wireless PCS LLC- WV/NC/SC  
New Cingular Wireless PCS, LLC - PA  
Northern York County School District  
Old Dominion LLC  
PEG Bandwidth, LLC  
Pennsylvania Turnpike Commission  
PhillieCo, L.P.  
Prince William, County of  
Radio One Inc  
RapidDSL & Wireless, Inc.  
Red Rose Transit Authority  
Red Zebra Broadcasting Licensee, LLC  
SHIPPENSBURG AREA SCHOOL DISTRICT  
SOMERSET COUNTY  
SUSQUEHANNA TOWNSHIP SCHOOL DISTRICT

Company (Continue)

Shenandoah Personal Communications, LLC  
Sprint Spectrum L.P.  
Sprintcom, Inc  
Steelton-Highspire School District  
T-Mobile License LLC  
THE HERSHEY COMPANY  
Telecom Transport Management, Inc  
Telegia Communications Inc.  
Virginia Everywhere, LLC  
WASHINGTON CABLE SYSTEMS INC  
WKYSFM, INC  
WV DHHR BPH, Office of EMS, Com. Div.  
Washington Metro Area Transit Police Dep  
West Virginia PCS Alliance, L.C.  
Western PA Internet Access, Inc.  
Windstream D&E Systems, Inc.  
Wireless Internetnetwork LLC  
World Class Wireless, LLC  
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.

# COMSEARCH

## Earth Station Data Sheet

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Date: 11/17/2014  
Job Number: 141029COMSJC08

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### Administrative Information

Status: TEMPORARY (Operation from 11/26/2014 to 03/01/2015)  
Call Sign: TEMP03  
Licensee Code: INTELS  
Licensee Name: Intelsat License LLC

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### 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

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### 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

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### Antenna Information

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

### Transmit

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%

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### Frequency Information

Emission / Frequency Range (MHz):  
850KFXD / 17312.5  
850KFXD / 18087.0

### Transmit 18.0 GHz

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

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## Earth Station Data Sheet

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<b>Coordination Values</b>	<b>HAGERSTOWN, MD</b>	
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)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 18.0 GHz	
			Horizon Gain (dBi)	Coordination 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

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## Earth Station Data Sheet

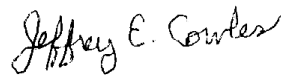
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<b>Coordination Values</b>	<b>HAGERSTOWN, MD</b>	
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Antenna Model	TIW 14.2 Meter	
Antenna Mode	Transmit 18.0 GHz	
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%
Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-0.4 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 18.0 GHz	
			Horizon Gain (dBi)	Coordination 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  
Engineer III, Telecommunications  
COMSEARCH  
19700 Janelia Farm Blvd.  
Ashburn, Virginia 20147

DATED: November 17, 2014