

KA258 SES-STA-20121025-00965  
Intelsat License LLC IB2012002501

Approved by OMB  
3060-0678

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

1. Applicant

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

File # SES-STA-20121025-00965  
Call Sign N9A58 Grant Date 11-20-12  
(or other identifier)  
Term Dates  
From 11-20-12 To: 12-20-12  
Approved: [Signature]



Conditions:

Applicant: Intelsat License LLC (Intelsat)

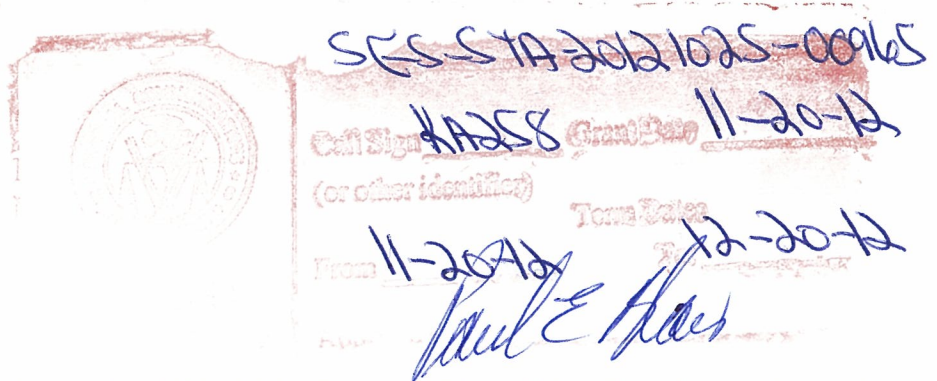
File Number: SES-STA-21011025-00965

Call Sign: KA258

Intelsat is authorized, for a period of 30 days, to perform telemetry, tracking, and control ("TT&C") operations while raising and maneuvering the Direct Broadcast Satellite ("DBS"), EchoStar 16, to the 67.1° W.L. orbital location, using the following center frequencies 17.307 GHz and 17.7955 GHz (Earth-to-space); and 12.694 GHz, 12.695 GHz, 12.6965 GHz, and 12.6975 GHz (space-to-Earth). 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 67.1° W.L. shall shall not include the provision of commercial services.
5. 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.



<b>2. Contact</b>	
<b>Name:</b> Susan H. Crandall	<b>Phone Number:</b> 202-944-7848
<b>Company:</b> Intelsat Corporation	<b>Fax Number:</b> 202-944-7870
<b>Street:</b> 3400 International Drive, N.W.	<b>E-Mail:</b> susan.crandall@intelsat.com
<b>City:</b> Washington	<b>State:</b> DC
<b>Country:</b> USA	<b>Zipcode:</b> 20008 -3006
<b>Attention:</b> Susan H. Crandall	<b>Relationship:</b> 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.h) 77 45 33.0 W
11. Please supply any need attachments. Attachment 1: STA Request      Attachment 2: Exhibit A      Attachment 3: Attachment 3:	
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.) <div style="border: 1px solid black; padding: 5px;">Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, from November 20, 2012 through December 19, 2012, to use its Hagerstown, Maryland Ku-band earth station, call sign KA258, to provide launch and early orbit phase services for the Echostar-16 satellite that is expected to be launched on November 20, 2012.</div>	
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"; party to the application; for these purposes.      Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Susan H. Crandall	15. Title of Person Signing Asst. General Counsel, Intelsat Corporation
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).	

**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 25, 2012

Ms. Marlene H. Dortch  
Secretary  
Federal Communications Commission  
445 12<sup>th</sup> 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”)<sup>1</sup> for 30 days, from November 20, 2012 through December 19, 2012, to use its Hagerstown, Maryland Ku-band earth station -- call sign KA258 -- to provide launch and early orbit phase (“LEOP”) services for the Echostar-16 satellite that is expected to be launched on November 20, 2012.<sup>2</sup> The LEOP period is expected to last approximately six days.<sup>3</sup>

The Echostar-16 LEOP operations will be performed in the following frequency bands: 17307.0 MHz and 17795.5 MHz in the uplink (RHCP), and 12696.5 MHz, 12697.5 MHz, 12694.0 MHz, 12695.0 MHz in the downlink (RHCP). The maximum uplink EIRP transmitted during the LEOP operations will be 85 dBW, with an emission designator of 800KF2D. The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path. As such, there would be no risk of interference with respect to lawfully operating, co-frequency radiocommunication facilities. Nevertheless, 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 Echostar-16 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.

<sup>1</sup> 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”).

<sup>2</sup> The permanent orbital location for Echostar-16, which is licensed by the United States, will be 61.5° E.L. The in-orbit testing location will be 67.1° E.L.

<sup>3</sup> Intelsat is seeking authority through December 19, 2012 to accommodate a possible launch delay.

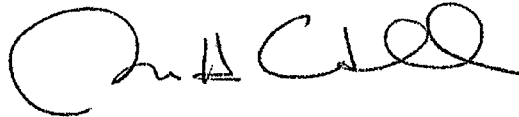
Ms. Marlene H. Dortch  
October 25, 2012  
Page 2

In addition, Intelsat attaches Exhibit A, which includes technical information indicating 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 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.

Grant of this STA request will allow Intelsat to help launch the EchoStar-16 satellite. This, in turn, will help ensure continuity of service at the 61.5° E.L. location and thereby promotes the public interest.

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

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Susan H. Crandall". The signature is fluid and cursive, with a large initial "S" and "C".

Susan H. Crandall  
Assistant General 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/Receive Earth Station  
Operation Dates: 09/15/2012 - 11/15/2013

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 July 22, 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



Company (Continued)

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  
Glennville State University  
HALIFAX AREA SCHOOL DISTRICT  
Harrison County Emergency Services  
Hope Gas, Inc.  
Kreider Networks  
LANCASTER GENERAL HOSPITAL  
Last Mile Inc.  
Loudoun County, Virginia  
Loudoun Wireless LLC  
MLS ENGINEERING  
Maryland, State Of - MDOT - MTA  
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, LLC  
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

Company (Continued)

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.

# 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

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### Administrative Information

Status TEMPORARY (Operation from 09/15/2012 to 11/15/2012)  
Call Sign TEMP11  
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

#### 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) -0.3  
(dBW/MHz) 23.7

Maximum EIRP (dBW/4 kHz) 64.8  
(dBW/MHz) 88.0  
(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

#### Transmit 18.0 GHz

Emission / Frequency Range (MHz) 832KFXD / 17307.0  
832KFXD / 17795.5

Max Great Circle Coordination Distance 445.5 km / 276.8 mi  
Precipitation Scatter Contour Radius 188.7 km / 117.3 mi

# COMSEARCH

## Earth Station Data Sheet

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

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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	-0.3 (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	153.07
5	0.00	96.84	-10.00	153.07
10	0.00	91.86	-10.00	153.07
15	0.00	86.88	-10.00	153.07
20	0.00	81.90	-10.00	153.07
25	0.00	76.92	-10.00	153.07
30	0.00	71.95	-10.00	153.07
35	0.00	66.97	-10.00	153.07
40	0.00	62.00	-10.00	153.07
45	0.00	57.03	-10.00	153.07
50	0.00	52.06	-10.00	153.07
55	0.00	47.09	-9.82	153.63
60	0.00	42.14	-8.62	158.06
65	0.00	37.19	-7.26	162.57
70	0.00	32.26	-5.72	167.81
75	0.00	27.34	-3.92	174.00
80	0.00	22.47	-1.79	181.53
85	0.00	17.65	0.83	191.02
90	0.00	12.98	4.17	203.37
95	0.00	8.66	8.56	220.92
100	0.00	5.61	13.27	445.45
105	0.00	6.15	12.28	303.30
110	0.00	9.60	7.45	216.37
115	0.00	13.27	3.93	202.43
120	0.00	16.89	1.31	192.79
125	0.00	20.41	-0.75	185.27
130	0.00	23.83	-2.43	179.26
135	0.00	27.11	-3.83	174.33
140	0.00	30.23	-5.01	170.23
145	0.00	33.14	-6.01	166.81
150	0.00	35.82	-6.85	163.95
155	0.00	38.20	-7.55	161.60
160	0.00	40.26	-8.12	159.70
165	0.00	41.93	-8.56	158.24
170	0.00	43.16	-8.88	156.71
175	0.00	43.92	-9.07	156.09
180	0.00	44.18	-9.13	155.88

# COMSEARCH

## Earth Station Data Sheet

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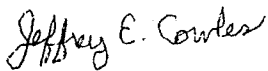
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Antenna Model	TIW 14.2 Meter
Antenna Mode	Transmit 18.0 GHz
Interference Objectives: Long Term	-154.0 dBW/4 kHz 20%
Short Term	-131.0 dBW/4 kHz 0.0025%
Max Available RF Power	-0.3 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 18.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
185	0.00	43.92	-9.07	156.08
190	0.00	43.16	-8.88	156.71
195	0.00	41.93	-8.56	158.24
200	0.00	40.26	-8.12	159.70
205	0.00	38.20	-7.55	161.60
210	0.00	35.81	-6.85	163.95
215	0.00	33.14	-6.01	166.81
220	0.00	30.22	-5.01	170.23
225	0.00	27.11	-3.83	174.33
230	0.00	23.83	-2.43	179.25
235	0.00	20.42	-0.75	185.27
240	0.00	16.89	1.31	192.81
245	0.00	13.28	3.92	202.42
250	0.00	9.59	7.46	216.41
255	0.00	6.33	11.96	313.54
260	0.00	6.11	12.35	427.24
265	0.00	9.18	7.93	218.32
270	0.00	13.46	3.77	201.84
275	0.00	18.11	0.55	190.02
280	0.00	22.90	-2.00	180.79
285	0.00	27.76	-4.09	173.43
290	0.00	32.66	-5.85	167.34
295	0.00	37.59	-7.38	162.19
300	0.00	42.53	-8.72	157.23
305	0.00	47.48	-9.91	153.35
310	0.00	52.44	-10.00	153.07
315	0.00	57.40	-10.00	153.07
320	0.00	62.37	-10.00	153.07
325	0.00	67.34	-10.00	153.07
330	0.00	72.31	-10.00	153.07
335	0.00	77.28	-10.00	153.07
340	0.00	82.26	-10.00	153.07
345	0.00	87.23	-10.00	153.07
350	0.00	92.21	-10.00	153.07
355	0.00	97.18	-10.00	153.07

## 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 24, 2012