


APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
30-Day STA Using Hagerstown, MD Earth Station KA275 to Provide LEOP Services for Intelsat 33e Satellite

1. Applicant

Name: Intelsat License LLC **Phone Number:** 703-559-7848
DBA Name: **Fax Number:** 703-559-8539
Street: c/o Intelsat Corporation **E-Mail:** susan.crandall@intelsat.com
7900 Tysons One Place
City: McLean **State:** VA
Country: USA **Zipcode:** 22102 -5972
Attention: Susan H. Crandall

File # SES-STA-20160801-00710
Call Sign KA275 Grant Date 8-5-16
(or other identifier)
Term Dates
From: 8-24-16 To: 9-23-16
Approved: [Signature]



GRANTED
International Bureau



File # SES-STA-20160801-00710
Call Sign KA275 Grant Date 8-5-16
(or other identifier)
Term Dates
From: 8-24-16 To: 9-23-16
Approved: Paul E. Hodes

Applicant: Intelsat License LLC
File No.: SES-STA-20160801-00710
Call Sign: KA275
Special Temporary Authority

Intelsat License LLC is granted Special Temporary Authority, under the following conditions, for 30 days, beginning August 24, 2016, to operate its C-band earth station, Call Sign KA275, located in, Hagerstown, Maryland, to provide launch and early orbit phase ("LEOP") services for the Intelsat 33e satellite, as it travels to its permanent orbital location 60° E.L. Communications will be on the following center frequencies: 5850.50 MHz, 5853.00 MHz, 6422.00 MHz and 6424.50 MHz (LHCP/V) in the (Earth-to-space), and 4197.25 MHz, 4197.75 MHz, 4198.25 MHz and 4198.75 MHz (LHCP) in the (space-to-Earth). Intelsat 33e satellite is expected to be launched no earlier than August 24, 2016.

1. During the drift from 59.55° E.L. to the satellite's permanent orbital location 60.0° E.L., Intelsat will coordinate with operators of co-frequency satellites in the drift path.
2. The LEOP operations must 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, Currently the 24x7 contact information for the Intelsat 33e LEOP mission is as follows: Ph.: (703) 559-7701 - East Coast Operations Center (primary); (310) 525-5591 - West Coast Operations Center (back-up). Request to speak with Harry Burnham or Kevin Bell.
3. All operations under this grant of STA shall be on an unprotected and non-harmful interference basis. Intelsat's KA275 shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
4. In the event of any harmful interference under this grant of STA, Intelsat License, LLC, KA275 must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
5. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Intelsat License, LLC applications.
6. Any action taken or expense incurred as a result of operations pursuant to this STA is solely 'at Intelsat License, LLC's risk.
7. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. §0.261, and is effective immediately.

2. Contact			
Name:	Cynthia J. Grady	Phone Number:	703-559-6949
Company:	Intelsat Corporation	Fax Number:	703-559-8539
Street:	7900 Tysons One Place	E-Mail:	cynthia.grady@intelsat.com
City:	McLean	State:	VA
Country:	USA	Zipcode:	22102 -5972
Attention:		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 55.0 N			

9. State MD	10. Longitude (dd mm ss.s h) 77 45 35.0 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.) Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, commencing August 24, 2016, to use its Hagerstown, Maryland C-band earth station, call sign KA275, to provide launch and early orbit phase services for Intelsat 33e. Intelsat 33e is expected to be launched on August 24, 2016. The LEOP period is expected to last	
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 Cynthia J. Grady	15. Title of Person Signing Regulatory 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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12. Description

Intelsat License LLC herein requests a grant of Special Temporary Authority for 30 days, commencing August 24, 2016, to use its Hagerstown, Maryland C-band earth station, call sign KA275, to provide launch and early orbit phase services for Intelsat 33e. Intelsat 33e is expected to be launched on August 24, 2016. The LEOP period is expected to last approximately 15 days.



INTELSAT

Envision. Connect. Transform.

August 1, 2016

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 KA275

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)¹ for 30 days, commencing August 24, 2016, to use its Hagerstown, Maryland C-band earth station—call sign KA275—to provide launch and early orbit phase (“LEOP”) services for Intelsat 33e. Intelsat 33e is expected to be launched on August 24, 2016.² The LEOP period is expected to last approximately 15 days.³

The proposed operations will be performed using the following frequencies: 6722.00 MHz, 6424.5 MHz, 5850.5 MHz, and 5853.0 MHz in the uplink (LHCP/V); and 4197.25 MHz, 4197.75 MHz, 4198.25 MHz, and 4198.75 MHz in the downlink (LHCP/V). The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.⁴ 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 Intelsat 33e mission is as follows:

Ph.: (703) 559-7701 – East Coast Operations Center (primary)
(310) 525-5591 – West Coast Operations Center (back-up)

¹ Intelsat has filed its STA request, an FCC Form 159, a \$195.00 filing fee, and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

² The permanent orbital location for Intelsat 33e will be at 60.0° E.L. *See Policy Branch Information; Actions Taken*, Report No. SAT-01139, File No. SAT-LOA-20150327-00016 (Feb. 26, 2016) (Public Notice). The in-orbit testing location will be 59.55° E.L. *See Intelsat License LLC Request for Special Temporary Authority to Conduct In-Orbit Testing of Intelsat 33e; Call Sign S2939*, File No. SAT-STA-20160722-00069 (filed July 22, 2016).

³ Intelsat is seeking authority for 30 days to accommodate a possible launch delay.

⁴ Intelsat will handle the coordination.

Ms. Marlene H. Dortch
August 1, 2016
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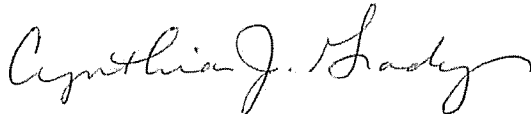
Request to speak with Harry Burnham or Kevin Bell.

In further support of this request, Intelsat hereby attaches Exhibit A, which contains technical information that demonstrates 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. Intelsat also notes that for purposes of the Intelsat 33e LEOP mission, it is seeking to operate in the frequencies listed in the request at power levels not to exceed 20.9 dBW. The technical information submitted with this STA request reflects a power level as high as 35.5 dBW because Intelsat might operate at this level in the event an emergency necessitates the use of a higher power level in order to command the satellite. 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 and test the Intelsat 33e satellite. This, in turn, will help provide additional capacity to customers at the 60.0° E.L. orbital location and thereby promotes the public interest.

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

Respectfully submitted,



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: 08/24/2016 - 09/08/2016

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 14, 2016.

Company

256Q Networks
AB Services LLC
AT&T Communications of Virginia, LLC
AT&T Corp.
AT&T Wireless Services 3 LLC - PA
AWC Networks
Adams County Department of Emergency Svc
Affiniti PA, LLC
Alltel Communications LLC-Southern VA
Appalachia Engineering Services
Argos Engineering, LLC
Atlantic Broadband (Penn), LLC
Atlantic City Electric Company
Atlantic, County of
Augusta, County of
BLAIR COUNTY 911
Baltimore County of Maryland
Baltimore Gas and Electric Company
Beaver Springs Faith Baptist Church, Inc
Bedford, County of
Believe Wireless, LLC
Berks County Department of Emergency Ser
Blue Ridge Carriers
Blueline Communications
CLEARFIELD, COUNTY OF
CNG Transmission Corporation
CROWN COMMUNICATION, INC.
Cambria, County of
Capital Communications of America
Caroline County, VA
Carroll, County of
Cellco Partnership - Bridgeville, PA/WV
Cellco Partnership - Southern Virginia
Cellco Partnership- PA Region
Cellco Partnership-WDC/Baltimore
Cellco Prtnrshp - Phil. Tri-State Rgn

Centre, County of
Charles, County of
Chester, County of
City of Fredericksburg
Citynet
Clinton, County of
Columbia Gas Transmission Corporation
Commonwealth of Pennsylvania
Commonwealth of Pennsylvania-Radio Proj.
Comprehensive Wireless LLC
Conterra Ultra Broadband, LLC
Coralinks
County of Fayette
County of Frederick
County of Lycoming
County of York
DAUPHIN COUNTY EMERGENCY MANAGEMENT
Delaware County (PA) Emergency Services
Delaware Division of Communications
Delmarva Broadcasting Company
Delmarva Power and Light Company
ECW Wireless, LLC
Eastern MLG LLC
Enoch Pratt Free Library
Exelon Generation Company, LLC
FELHC, INC
Federal Communication Commission
Frederick County
Fundamental Broadcasting LLC
GETWIRELESS.NET
GREAT SCOTT BROADCASTING
GW Networks
Garden State Transmissions
Geodesic Networks LLC
Gloucester, County of
Greene, County of (PA)
Hanover, County of
Hardy Cellular Telephone Company
Harrisonburg-Rockingham ECC
High Voltage Communications LLC (CFN)
Huntingdon County of
Indiana, County of
Jefferson Microwave, LLC
Juniata County Emergency Services
King and Queen County
Kryptick Technologies
Lancaster County-Wide Communications
Limitless Mobile, LLC
Loudoun, County of
MGW Networks, LLC
MVC Research. LLC
Maryland Public Broadcasting Commission
Maryland State Highway Administration
Maryland, State of - Dept.of Info & Tech
Montgomery County Of
National Tower Company LLC

New Cingular Wireless PCS LLC - NJ
New Cingular Wireless PCS - Maryland
New Cingular Wireless PCS LLC - DC
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, LLC - PA
New Jersey Turnpike Authority-Pkwy Div
New Jersey, State of -NJ Transit
New Line Networks, LLC
Norfolk Southern Railway
Northumberland County DPS/911
Old Dominion LLC
PA Communications
PEG Bandwidth, LLC
PRESTON COUNTY OFFICE OF EMERGENCY MANAG
PSEG Services Corporation
Peco Energy Company
Pennsylvania Turnpike Commission
Peoples Natural Gas Company LLC
Pepco Holdings Inc.
Perry, County of
Perseus Technology Holdings USA Inc.
Pitt Power
Pittsburgh SMSA Limited Partnership
Prince George's County
Prince William, County of
RAPPAHANNOCK ELECTRIC COOPERATIVE
Radio One Inc
Rockbridge Reg. Pub Safety Comm Ctr
Rural Broadband Network Services LLC
SCS Networks
SHENANDOAH VALLEY ELECTRIC COOPERATIVE
SW Networks
Somerset, County of
South Central Task Force (SCTFNET)
Southern Maryland Electric Cooperative I
Spotsylvania, County of
Sprint Spectrum L.P.
Sprintcom, Inc
St. Mary's County of (MD)
Stafford, County of
Standard Backhaul Communications LLC
State of Maryland, MIEMSS
Texas Eastern Communications, LLC
Thought Transmissions, LLC
Torelco LLC
Transcontinental Gas Pipeline Corp.
Turtle Networks 6559
US Cellular Operating Company, LLC (WI)
USCOC of Cumberland, Inc.
USCOC of Virginia RSA #3, Inc.
USOC of Pennsylvania RSA No 10 B2 Inc.
Verizon Maryland, Inc.
Verizon Wireless (VAW) LLC - Maryland
Verizon Wireless (VAW) LLC - W/B/V Mkts

Verizon Wireless (VAW) LLC-Pennsylvania
Verizon Wireless VAW LLC - West Virginia
Verizon Wireless VAW LLC-Southern VA
Virginia Broadband, LLC
Virginia Cellular LLC
Virginia Department of State Police
Virginia Electric & Power Company
WITF Inc.
WV DHHR BPH, Office of EMS, Com. Div.
Washington D.C. SMSA L.P.
Washington Gas Light Company
Washington Suburban Sanitary Commission
Washington, County of
Weblin Holdings LLC
Wireless Internetwork LLC
World Class Wireless, LLC
YAB Mobile
iSignal
xWave Engineering LLC

There are no unresolved interference objections with the station contained in these applications.

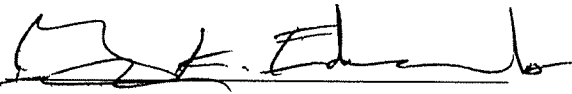
The following section presents the data pertinent to frequency coordination of the earth station that was circulated to all carriers within its coordination contours.

Coordination Values	HAGERSTOWN, MD	
Licensee Name	Intelsat License LLC	
Latitude (NAD 83)	39° 35' 55.0" N	
Longitude (NAD 83)	77° 45' 35.0" W	
Ground Elevation (AMSL)	171.3 m / 562.0 ft	
Antenna Centerline (AGL)	12.5 m / 41.0 ft	
Antenna Model	GD Satcom 19m	
Antenna Mode	Transmit 6.1 GHz	
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%
Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	2.6 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	43.16	-8.88	195.45
195	0.00	41.93	-8.56	196.66
200	0.00	40.26	-8.12	198.34
205	0.00	38.20	-7.55	200.51
210	0.00	35.81	-6.85	203.18
215	0.00	33.14	-6.01	204.76
220	0.00	30.22	-5.01	208.63
225	0.00	27.11	-3.83	213.35
230	0.00	23.83	-2.43	219.16
235	0.00	20.42	-0.75	226.45
240	0.00	16.89	1.31	235.86
245	0.00	13.37	3.84	248.11
250	0.00	10.88	6.08	259.08
255	0.00	10.36	6.62	302.48
260	0.00	12.07	4.95	253.13
265	0.00	15.29	2.39	240.99
270	0.00	19.26	-0.12	229.28
275	0.00	23.62	-2.33	219.58
280	0.00	28.18	-4.25	211.66
285	0.00	32.86	-5.92	205.12
290	0.00	37.61	-7.38	201.16
295	0.00	42.42	-8.69	196.17
300	0.00	47.25	-9.86	191.68
305	0.00	52.11	-10.00	191.15
310	0.00	56.99	-10.00	191.15
315	0.00	61.88	-10.00	191.15
320	0.00	66.79	-10.00	191.15
325	0.00	71.69	-10.00	191.15
330	0.00	76.61	-10.00	191.15
335	0.00	81.52	-10.00	191.15
340	0.00	86.44	-10.00	191.15
345	0.00	91.36	-10.00	191.15
350	0.00	96.28	-10.00	191.15
355	0.00	101.20	-10.00	191.15

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.

BY: 

Gary K. Edwards
Senior Manager
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: July 29, 2016