

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:

Request for 30-Day STA to Use Hagerstown, MD Earth Station KA275 to Provide LEOP Services for Horizons 3e (S2947) Satellite

1. Applicant

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



File # SES-STA-20180828-02520
Call Sign KA275 Grant Date 9-24-18
(or other identifier)
Term Dates
From: 9-24-18 To: 10-24-18
Approved: [Signature]

2. Contact			
Name:	Cynthia J. Grady	Phone Number:	703-559-6949
Company:	Intelsat US LLC	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?			
☒ If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).			
☐ Governmental Entity ☐ Noncommercial educational licensee ☐ Other (please explain):			
4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station			
5. Type Request			
☐ Use Prior to Grant ☐ Change Station Location ☒ Other			
6. Requested Use Prior Date			
7. City/Hagerstown		8. Latitude (dd mm ss.s h) 39 35 54.7 N	

9. State MD	10. Longitude (dd mm ss.s h) 77 45 35.3 W
11. Please supply any need attachments. Attachment 1: STA Request Attachment 2: Exhibit A 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 September 18, 2018, to use its Hagerstown, Maryland C-band earth station, call sign KA275, to provide launch and early orbit phase services for Horizons 3e (S2947). Horizons 3e is expected to be launched on September 18, 2018.	
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. ☒ Yes ☐ No	
14. Name of Person Signing Cynthia J. Grady	15. Title of Person Signing Regulatory Counsel, Intelsat US LLC
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.

Applicant: Intelsat License LLC
Call Sign: KA275
File No.: SES-STA-20180828-02520
Special Temporary Authority (STA)



File # SES-STA-20180828-02520
Call Sign KA275 Grant Date 9-24-18
(or other identifier)
Term Dates
From: 9-24-18 To: 10-24-18
Approved: Carl E. Hines

Intelsat License LLC ("Intelsat") is granted STA for 30 days starting September 24, 2018 to operate its earth station in Hagerstown, Maryland to provide launch and early orbit phase ("LEOP") services for the Horizons 3e (S2947) satellite with in-orbit testing location 164.0° E.L. and permanent orbital location of 169.0° E.L. Operations shall utilize frequencies 6421.50 – 6425.00 MHz and 5850.00 – 5853.50 MHz (Earth-to-space); and 4197.75 MHz, 4198.25 MHz; 4198.75 MHz and 4199.25 MHz (space-to-Earth). Operations are authorized under the following conditions:

1. Operations will not exceed the operational power levels and parameters coordinated.
2. In the event of any harmful interference Intelsat shall cease operations immediately upon notification of such interference, and shall immediately inform the Commission, in writing, of such an event.
3. Grant of this STA is without prejudice to any determination that the Commission may make regarding pending or future Intelsat applications.
4. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Intelsat's risk.
5. The 24/7 point of contact for this Horizons 3e mission is as follows: Ph: (703) 559-7701 – East Coast Operations Center (primary) and (310)525-5591- West Coast Center (back-up).

This grant is issued pursuant to Section 0.26 1 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release.

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: 09/05/2018 - 11/29/2018

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 05, 2018.

Company

AB Services LLC
AQ2AT LLC
AT&T Corp.
AT&T Wireless Services 3 LLC - PA
Access MLP Operating LLC
Adams County Department of Emergency Svc
Affiniti PA, LLC
Agile Network Builders LLC
Albemarle, County of, Virginia
Allentown SMSA Limited Partnership
Alltel Communications LLC - Western PA
Alltel Communications LLC-E OH WV
Alltel Communications LLC-TriState Rgn
American Electric Power Service Corp
Appalachia Engineering Services
Appalachian Power Company
Argos Engineering, LLC
Atlantic Broadband (Penn), LLC
Atlantic City Electric Company
Atlantic Coast Pipeline, LLC
Atlantic, County of
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
Blair County 911
Blue Ridge Carriers
Blueline Communications
Bucks County Dept. of Emergency Comm
CBS Radio of Maryland, LLC
Calvert, County of
Cambria, County of
Capital Communications of America
Carbon, County of 911 Center

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
Charles, County of
Charter Communications, LLC
Chester, County of
Chesterfield, County of
City of Fredericksburg
Citynet, LLC
Clearfield, County of
Clinton, County of
Columbia Gas Transmission, LLC
Commonwealth of Pennsylvania
Commonwealth of Pennsylvania-Radio Proj.
Comprehensive Wireless LLC
Conterra Ultra Broadband, LLC
County of Augusta
County of Burlington, Public Safety Cntr
County of Camden
County of Centre
County of Culpeper
County of Fayette
County of Frederick
County of King William, Virginia
County of Lycoming
County of Tioga
County of York
DSRC Networks
Dauphin County Emergency Management
Delaware County (PA) Emergency Services
Delaware Division of Communications
Delmarva Broadcasting Company
Delmarva Power and Light Company
Direct Broadcast Services, Inc.
Dominion Energy Transmission, Inc.
ECW Wireless, LLC
East Ohio Gas Company
Eastern MLG LLC
Electric Railroad, LLC
Enoch Pratt Free Library
Essex, County of
Exelon Generation Company, LLC
FELHC, Inc.
Federal Communication Commission
Fulton County of (PA)
Fundamental Broadcasting LLC
GSB Broadcasting LLC
GTT America LLC
Garden State Transmissions
Getwireless.Net
Gloucester, County of
Goochland County

Goochland, County of
Greene, County of (PA)
Hanover, County of
Hardy Cellular Telephone Company
Hardy County OEM/E911
Harrisonburg-Rockingham ECC
Henrico County
High Voltage Communications LLC (CFN)
Huntingdon, County of
Indiana, County of
Jefferson County of Pennsylvania
Jefferson Microwave, LLC
Juniata County Emergency Services
Kentucky Power Company
King and Queen County
Kryptick Technologies
Lancaster County-Wide Communications
Limitless Mobile, LLC
Loudoun, County of
Luzerne County of PA
MGW Networks, LLC
Maryland Public Broadcasting Commission
Maryland State Highway Administration
Maryland, State of - Dept.of Info & Tech
McKean, County of
Middlesex County Sherriff's Office
Mifflin County
Monroe County Control Center (PA)
Montgomery County Of
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 - 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, LLC - PA
New Jersey Turnpike Authority-Pkwy Div
New Jersey, State of -NJ Transit
New Kent County
New Line Networks, LLC
Norfolk Southern Railway
Northumberland County DPS/911
Ocean County of - Div of Wireless Tech.
Ohio Power Company
Ohio Valley Electric Company
PSEG Services Corporation
Peco Energy Company
Pennsylvania Turnpike Commission
Perry, County of
Pittsburgh SMSA Limited Partnership
Potter County of (PA)
Preston County Office of Emergency Manag

Prince George's County
 Prince William, County of
 RCTC Wholesale Corporation
 Radio License Holding CBC, LLC
 Radio One Inc
 Rappahannock Electric Cooperative
 Richmond, City of
 Rockbridge Reg. Pub Safety Comm Ctr
 Rural Broadband Network Services LLC
 Rural Broadband, LLC
 SW Networks
 Shenandoah Personal Communications, LLC
 Shenandoah Valley Electric Cooperative
 Snyder, County of
 Somerset County Dept. of Emergency Servi
 South Central Task Force (SCTFNET)
 Southern Maryland Electric Cooperative I
 Southside Electric Cooperative
 Spotsylvania, County of
 Sprintcom, Inc
 St. Mary's County of (MD)
 Stafford, County of
 Standard Backhaul Communications LLC
 State of Maryland, MIEMSS
 T-Mobile License LLC
 Texas Eastern Communications, LLC
 Thought Transmissions, LLC
 Torellco LLC
 Transcontinental Gas Pipeline Corp.
 US Cellular Operating Company, LLC (WI)
 USCOC of Cumberland, Inc.
 USCOC of Virginia RSA #3, Inc.
 USOC of Pennsylvania RSA No 10 B2 Inc.
 Uniti Fiber PEG, LLC
 Ursa Navigation Solutions, Inc.
 Verizon Maryland, Inc.
 Verizon Virginia, Inc.
 Verizon Wireless (VAW) LLC - Delaware/NJ
 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 RSA 5 Limited Partnership
 Virginia Broadband, LLC
 Virginia Department of State Police
 Virginia Electric & Power Company
 WV DHHR BPH, Office of Ems, Com. Div.
 Warrenton Fauquier Joint Communications
 Washington Gas Light Company
 Washington Suburban Sanitary Commission
 Washington, County of
 Weblin Holdings LLC
 West Virginia Educational Broadcasting
 Westmoreland, County of
 Wheeling Power Company

Wicomico County
Williamson Enterprise LLC
Wireless Internetwork LLC
Worcester County Emergency Services
World Class Wireless, LLC
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.

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

Date: 07/05/2018
 Job Number: 180705COMSGE07

Administrative Information

Status: TEMPORARY (Operation from 09/05/2018 to 11/29/2018)
 Call Sign: TEMP11
 Licensee Code: INTELS
 Licensee Name: Intelsat License LLC

Site Information

HAGERSTOWN, MD
 Venue Name
 Latitude (NAD 83): 39° 35' 54.7" N
 Longitude (NAD 83): 77° 45' 35.3" W
 Climate Zone: A
 Rain Zone: 2
 Ground Elevation (AMSL): 171.3 m / 562.0 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): 12.5 m / 41.0 ft

Antenna Information

Transmit - FCC32
 Manufacturer: GD Satcom
 Model: 19 meter
 Gain / Diameter: 59.1 dBi / 19.0 m
 3-dB / 15-dB Beamwidth: 0.20° / 0.40°

Max Available RF Power (dBW/4 kHz): 12.3
 (dBW/MHz): 36.3

Maximum EIRP (dBW/4 kHz): 71.4
 (dBW/MHz): 95.4

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

Frequency Information

Transmit 6.1 GHz
 Emission / Frequency Range (MHz): 850KFXD - 1M20FXD / 5850.0 - 5853.5
 850KFXD - 1M20FXD / 6421.5 - 6425.0

Max Great Circle Coordination Distance: 636.4 km / 395.4 mi
 Precipitation Scatter Contour Radius: 614.7 km / 381.9 mi

Coordination Values	HAGERSTOWN, MD	
Licensee Name	Intelsat License LLC	
Latitude (NAD 83)	39° 35' 54.7" N	
Longitude (NAD 83)	77° 45' 35.3" W	
Ground Elevation (AMSL)	171.3 m / 562.0 ft	
Antenna Centerline (AGL)	12.5 m / 41.0 ft	
Antenna Model	GD Satcom 19 meter	
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	12.3 (dBW/4 kHz)	

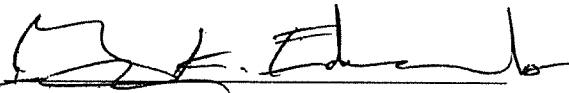
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	101.81	-10.00	228.46
5	0.00	96.84	-10.00	228.46
10	0.00	91.86	-10.00	228.46
15	0.00	86.88	-10.00	228.46
20	0.00	81.90	-10.00	228.46
25	0.00	76.92	-10.00	228.46
30	0.00	71.95	-10.00	228.46
35	0.00	66.97	-10.00	228.46
40	0.00	62.00	-10.00	228.46
45	0.00	57.03	-10.00	228.46
50	0.00	52.06	-10.00	228.46
55	0.00	47.09	-9.82	229.25
60	0.00	42.14	-8.62	234.79
65	0.00	37.19	-7.26	241.22
70	0.00	32.26	-5.72	248.19
75	0.00	27.34	-3.92	257.45
80	0.00	22.47	-1.79	269.18
85	0.00	17.65	0.83	284.62
90	0.00	12.98	4.17	306.03
95	0.00	8.66	8.56	337.06
100	0.00	5.61	13.27	636.41
105	0.00	6.15	12.28	450.49
110	0.00	9.60	7.45	328.94
115	0.00	13.27	3.93	304.41
120	0.00	16.89	1.31	287.58
125	0.00	20.41	-0.75	275.18
130	0.00	23.83	-2.43	265.58
135	0.00	27.11	-3.83	257.95
140	0.00	30.23	-5.01	251.77
145	0.00	33.14	-6.01	247.35
150	0.00	35.82	-6.85	243.20
155	0.00	38.20	-7.55	239.82
160	0.00	40.26	-8.12	237.11
165	0.00	41.93	-8.56	235.05
170	0.00	43.16	-8.88	233.58
175	0.00	43.92	-9.07	232.71
180	0.00	44.18	-9.13	232.42
185	0.00	43.92	-9.07	232.71

Coordination Values	HAGERSTOWN, MD	
Licensee Name	Intelsat License LLC	
Latitude (NAD 83)	39° 35' 54.7" N	
Longitude (NAD 83)	77° 45' 35.3" W	
Ground Elevation (AMSL)	171.3 m / 562.0 ft	
Antenna Centerline (AGL)	12.5 m / 41.0 ft	
Antenna Model	GD Satcom 19 meter	
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	12.3 (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	233.58
195	0.00	41.93	-8.56	235.05
200	0.00	40.26	-8.12	237.12
205	0.00	38.20	-7.55	239.82
210	0.00	35.81	-6.85	243.20
215	0.00	33.14	-6.01	247.35
220	0.00	30.22	-5.01	251.77
225	0.00	27.11	-3.83	257.95
230	0.00	23.83	-2.43	265.57
235	0.00	20.42	-0.75	275.17
240	0.00	16.89	1.31	287.60
245	0.00	13.28	3.92	304.38
250	0.00	9.59	7.46	329.03
255	0.00	6.33	11.96	461.32
260	0.00	6.11	12.35	612.62
265	0.00	9.18	7.93	332.41
270	0.00	13.46	3.77	303.39
275	0.00	18.11	0.55	282.94
280	0.00	22.90	-2.00	268.00
285	0.00	27.76	-4.09	256.58
290	0.00	32.66	-5.85	248.13
295	0.00	37.59	-7.38	240.66
300	0.00	42.53	-8.72	234.32
305	0.00	47.48	-9.91	228.85
310	0.00	52.44	-10.00	228.46
315	0.00	57.40	-10.00	228.46
320	0.00	62.37	-10.00	228.46
325	0.00	67.34	-10.00	228.46
330	0.00	72.31	-10.00	228.46
335	0.00	77.28	-10.00	228.46
340	0.00	82.26	-10.00	228.46
345	0.00	87.23	-10.00	228.46
350	0.00	92.21	-10.00	228.46
355	0.00	97.18	-10.00	228.46

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 24, 2018



August 28, 2018

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 September 18, 2018, to use its Hagerstown, Maryland C-band earth station—call sign KA275—to provide launch and early orbit phase ("LEOP") services for Horizons 3e (S2947). Horizons 3e is expected to be launched on September 18, 2018.² The LEOP period is expected to last approximately 30 days.

The proposed operations will be performed using the following frequencies and frequency bands: 6421.5-6425.0 MHz, and 5850.0-5853.5 MHz in the uplink (LHCP/V); and 4197.75 MHz, 4198.25 MHz, 4198.75 MHz and 4199.25 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.³ 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 Horizons 3e 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.

¹ Intelsat has filed its STA request, an FCC Form 159, a \$200.00 filing fee, and this supporting letter electronically via the International Bureau's Filing System ("IBFS").

² The permanent orbital location for Horizons 3e will be at 169.0° E.L. *See Policy Branch Information; Actions Taken*, Report No. SAT-01313, File No. SAT-MOD-20170622-00093 (April 27, 2018) (Public Notice). The in-orbit testing location will be 164.0° E.L.

³ Intelsat will handle the coordination.

Ms. Marlene H. Dortch
August 28, 2018
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In further support of this request, Intelsat herewith 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. 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 Horizons 3e satellite. This, in turn, will help provide additional capacity to customers at the 169.0° 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,

/s/ Cynthia J. Grady

Cynthia J. Grady
Regulatory Counsel
Intelsat US LLC

cc: Paul Blais