

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 30-Day STA to Use Hagerstown, MD Earth Station E000296 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<br>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-20180828-02525  
Call Sign E000296 Grant Date 9-24-18  
(or other identifier)  
Term Dates  
From: 9-24-18 To: 10-24-18  
Approved: Susan H. Crandall

|                                                                                                                                                                                                                                                                                                            |                       |                                                        |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|----------------------------|
| <b>2. Contact</b>                                                                                                                                                                                                                                                                                          |                       |                                                        |                            |
| <b>Name:</b>                                                                                                                                                                                                                                                                                               | Cynthia J. Grady      | <b>Phone Number:</b>                                   | 703-559-6949               |
| <b>Company:</b>                                                                                                                                                                                                                                                                                            | Intelsat US LLC       | <b>Fax Number:</b>                                     | 703-559-8539               |
| <b>Street:</b>                                                                                                                                                                                                                                                                                             | 7900 Tysons One Place | <b>E-Mail:</b>                                         | cynthia.grady@intelsat.com |
| <b>City:</b>                                                                                                                                                                                                                                                                                               | McLean                | <b>State:</b>                                          | VA                         |
| <b>Country:</b>                                                                                                                                                                                                                                                                                            | USA                   | <b>Zipcode:</b>                                        | 22102 -5972                |
| <b>Attention:</b>                                                                                                                                                                                                                                                                                          |                       | <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).<br><input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee<br><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<br>(dd mm ss.s h)    39    35    54.0    N |                            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 9. State MD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10. Longitude<br>(dd mm ss.s h) 77 45 35.0 W                       |
| 11. Please supply any need attachments.<br>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.)<br><div style="border: 1px solid black; padding: 5px;"> 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 E000296, to provide launch and early orbit phase services for Horizons 3e (S2947). Horizons 3e is expected to be launched on September 18, 2018. </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"; for these purposes. <div style="text-align: right;"> Yes <input checked="" type="radio"/> No <input type="radio"/> </div> |                                                                    |
| 14. Name of Person Signing<br>Cynthia J. Grady                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15. Title of Person Signing<br>Regulatory Counsel, Intelsat US LLC |
| WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT<br>(U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION<br>(U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).                                                                                                                                                                                                                                                                |                                                                    |

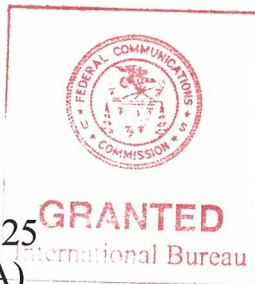
## **FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT**

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to [PRA@fcc.gov](mailto:PRA@fcc.gov). PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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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: E000296  
File No.: SES-STA-20180828-02525  
Special Temporary Authority (STA)



File # SES-STA-20180828-02525  
Call Sign E000296 Grant Date 9-24-18  
(or other identifier)  
Term Dates  
From: 9-24-18 To: 10-24-18  
Approved: [Signature]

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  
Albemarle, County of, Virginia  
Allentown SMSA Limited Partnership  
Alltel Communications LLC - Western PA  
Alltel Communications LLC-E OH WV  
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  
CBS Radio of Maryland, LLC  
Calvert, County of  
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  
Charles, County of  
Chester, 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 Lycoming  
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  
Dominion Energy Transmission, Inc.  
ECW Wireless, LLC  
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  
GTT America LLC  
Garden State Transmissions  
Getwireless.Net  
Gloucester, 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

King and Queen County  
 Kryptick Technologies  
 Lancaster County-Wide Communications  
 Limitless Mobile, LLC  
 Loudoun, County of  
 MGW Networks, LLC  
 Maryland Public Broadcasting Commission  
 Maryland State Highway Administration  
 Maryland, State of - Dept.of Info & Tech  
 Mifflin County  
 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 - 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  
 PSEG Services Corporation  
 Peco Energy Company  
 Pennsylvania Turnpike Commission  
 Perry, County of  
 Pittsburgh SMSA Limited Partnership  
 Preston County Office of Emergency Manag  
 Prince George's County  
 Prince William, County of  
 Radio License Holding CBC, LLC  
 Radio One Inc  
 Rappahannock Electric Cooperative  
 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  
 Spotsylvania, County of  
 Sprintcom, Inc  
 St. Mary's County of (MD)  
 Stafford, County of  
 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 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  
Westmoreland, County of  
Wheeling Power Company  
Wicomico County  
Williamson Enterprise LLC  
Wireless Internetnetwork LLC  
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: 180705COMSGE08

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**Administrative Information**

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

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**Site Information****HAGERSTOWN, MD**

|                         |                     |
|-------------------------|---------------------|
| Venue Name              |                     |
| Latitude (NAD 83)       | 39° 35' 54.0" N     |
| Longitude (NAD 83)      | 77° 45' 35.0" W     |
| Climate Zone            | A                   |
| Rain Zone               | 2                   |
| Ground Elevation (AMSL) | 173.74 m / 570.0 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)       | 5.79 m / 19.0 ft            |

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**Antenna Information****Transmit - FCC32**

|                        |                  |
|------------------------|------------------|
| Manufacturer           | TIW              |
| Model                  | 9 meter          |
| Gain / Diameter        | 53.5 dBi / 9.0 m |
| 3-dB / 15-dB Beamwidth | 0.36° / 0.67°    |

|                        |             |      |
|------------------------|-------------|------|
| Max Available RF Power | (dBW/4 kHz) | 7.2  |
|                        | (dBW/MHz)   | 31.2 |

|              |             |      |
|--------------|-------------|------|
| Maximum EIRP | (dBW/4 kHz) | 60.7 |
|              | (dBW/MHz)   | 84.7 |

|                          |            |                  |         |
|--------------------------|------------|------------------|---------|
| 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 6.1 GHz**

|                                  |                                     |
|----------------------------------|-------------------------------------|
| Emission / Frequency Range (MHz) | 850KFXD - 1M20FXD / 5850.0 - 5853.5 |
|                                  | 850KFXD - 1M20FXD / 6421.5 - 6425.0 |

|                                        |                     |
|----------------------------------------|---------------------|
| Max Great Circle Coordination Distance | 507.1 km / 315.0 mi |
| Precipitation Scatter Contour Radius   | 431.6 km / 268.1 mi |

|                                    |                       |         |
|------------------------------------|-----------------------|---------|
| <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' 35.0" W       |         |
| Ground Elevation (AMSL)            | 173.74 m / 570.0 ft   |         |
| Antenna Centerline (AGL)           | 5.79 m / 19.0 ft      |         |
| Antenna Model                      | TIW 9 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             | 7.2 (dBW/4 kHz)       |         |

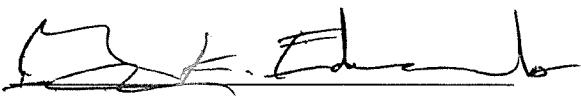
| Azimuth (°) | Horizon<br>Elevation (°) | Antenna<br>Discrimination (°) | Transmit 6.1 GHz      |                               |
|-------------|--------------------------|-------------------------------|-----------------------|-------------------------------|
|             |                          |                               | Horizon<br>Gain (dBi) | Coordination<br>Distance (km) |
| 0           | 0.00                     | 101.81                        | -10.00                | 207.10                        |
| 5           | 0.00                     | 96.84                         | -10.00                | 207.10                        |
| 10          | 0.00                     | 91.86                         | -10.00                | 207.10                        |
| 15          | 0.00                     | 86.88                         | -10.00                | 207.10                        |
| 20          | 0.00                     | 81.90                         | -10.00                | 207.10                        |
| 25          | 0.00                     | 76.92                         | -10.00                | 207.10                        |
| 30          | 0.00                     | 71.95                         | -10.00                | 207.10                        |
| 35          | 0.00                     | 66.97                         | -10.00                | 207.10                        |
| 40          | 0.00                     | 62.00                         | -10.00                | 207.10                        |
| 45          | 0.00                     | 57.03                         | -10.00                | 207.10                        |
| 50          | 0.00                     | 52.06                         | -10.00                | 207.10                        |
| 55          | 0.00                     | 47.09                         | -9.82                 | 207.79                        |
| 60          | 0.00                     | 42.14                         | -8.62                 | 212.59                        |
| 65          | 0.00                     | 37.19                         | -7.26                 | 218.19                        |
| 70          | 0.00                     | 32.26                         | -5.72                 | 224.84                        |
| 75          | 0.00                     | 27.34                         | -3.92                 | 232.91                        |
| 80          | 0.00                     | 22.47                         | -1.79                 | 243.02                        |
| 85          | 0.00                     | 17.65                         | 0.83                  | 255.60                        |
| 90          | 0.00                     | 12.98                         | 4.17                  | 274.11                        |
| 95          | 0.00                     | 8.66                          | 8.56                  | 301.31                        |
| 100         | 0.00                     | 5.61                          | 13.27                 | 507.05                        |
| 105         | 0.00                     | 6.15                          | 12.28                 | 371.03                        |
| 110         | 0.00                     | 9.60                          | 7.45                  | 294.11                        |
| 115         | 0.00                     | 13.27                         | 3.93                  | 272.70                        |
| 120         | 0.00                     | 16.89                         | 1.31                  | 258.14                        |
| 125         | 0.00                     | 20.41                         | -0.75                 | 248.15                        |
| 130         | 0.00                     | 23.83                         | -2.43                 | 239.94                        |
| 135         | 0.00                     | 27.11                         | -3.83                 | 233.34                        |
| 140         | 0.00                     | 30.23                         | -5.01                 | 227.97                        |
| 145         | 0.00                     | 33.14                         | -6.01                 | 223.55                        |
| 150         | 0.00                     | 35.82                         | -6.85                 | 219.92                        |
| 155         | 0.00                     | 38.20                         | -7.55                 | 216.96                        |
| 160         | 0.00                     | 40.26                         | -8.12                 | 214.61                        |
| 165         | 0.00                     | 41.93                         | -8.56                 | 212.81                        |
| 170         | 0.00                     | 43.16                         | -8.88                 | 211.54                        |
| 175         | 0.00                     | 43.92                         | -9.07                 | 210.78                        |
| 180         | 0.00                     | 44.18                         | -9.13                 | 210.53                        |
| 185         | 0.00                     | 43.92                         | -9.07                 | 210.78                        |

|                                    |                       |         |
|------------------------------------|-----------------------|---------|
| <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' 35.0" W       |         |
| Ground Elevation (AMSL)            | 173.74 m / 570.0 ft   |         |
| Antenna Centerline (AGL)           | 5.79 m / 19.0 ft      |         |
| Antenna Model                      | TIW 9 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             | 7.2 (dBW/4 kHz)       |         |

| Azimuth (°) | Horizon<br>Elevation (°) | Antenna<br>Discrimination (°) | Transmit 6.1 GHz      |                               |
|-------------|--------------------------|-------------------------------|-----------------------|-------------------------------|
|             |                          |                               | Horizon<br>Gain (dBi) | Coordination<br>Distance (km) |
| 190         | 0.00                     | 43.16                         | -8.88                 | 211.54                        |
| 195         | 0.00                     | 41.93                         | -8.56                 | 212.81                        |
| 200         | 0.00                     | 40.26                         | -8.12                 | 214.61                        |
| 205         | 0.00                     | 38.20                         | -7.55                 | 216.96                        |
| 210         | 0.00                     | 35.81                         | -6.85                 | 219.92                        |
| 215         | 0.00                     | 33.14                         | -6.01                 | 223.55                        |
| 220         | 0.00                     | 30.22                         | -5.01                 | 227.97                        |
| 225         | 0.00                     | 27.11                         | -3.83                 | 233.34                        |
| 230         | 0.00                     | 23.83                         | -2.43                 | 239.93                        |
| 235         | 0.00                     | 20.42                         | -0.75                 | 248.14                        |
| 240         | 0.00                     | 16.89                         | 1.31                  | 258.16                        |
| 245         | 0.00                     | 13.28                         | 3.92                  | 272.68                        |
| 250         | 0.00                     | 9.59                          | 7.46                  | 294.19                        |
| 255         | 0.00                     | 6.33                          | 11.96                 | 378.50                        |
| 260         | 0.00                     | 6.11                          | 12.35                 | 489.18                        |
| 265         | 0.00                     | 9.18                          | 7.93                  | 297.19                        |
| 270         | 0.00                     | 13.46                         | 3.77                  | 271.82                        |
| 275         | 0.00                     | 18.11                         | 0.55                  | 254.16                        |
| 280         | 0.00                     | 22.90                         | -2.00                 | 242.02                        |
| 285         | 0.00                     | 27.76                         | -4.09                 | 232.16                        |
| 290         | 0.00                     | 32.66                         | -5.85                 | 224.24                        |
| 295         | 0.00                     | 37.59                         | -7.38                 | 217.70                        |
| 300         | 0.00                     | 42.53                         | -8.72                 | 212.18                        |
| 305         | 0.00                     | 47.48                         | -9.91                 | 207.44                        |
| 310         | 0.00                     | 52.44                         | -10.00                | 207.10                        |
| 315         | 0.00                     | 57.40                         | -10.00                | 207.10                        |
| 320         | 0.00                     | 62.37                         | -10.00                | 207.10                        |
| 325         | 0.00                     | 67.34                         | -10.00                | 207.10                        |
| 330         | 0.00                     | 72.31                         | -10.00                | 207.10                        |
| 335         | 0.00                     | 77.28                         | -10.00                | 207.10                        |
| 340         | 0.00                     | 82.26                         | -10.00                | 207.10                        |
| 345         | 0.00                     | 87.23                         | -10.00                | 207.10                        |
| 350         | 0.00                     | 92.21                         | -10.00                | 207.10                        |
| 355         | 0.00                     | 97.18                         | -10.00                | 207.10                        |

## 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 E000296

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests a grant of Special Temporary Authority ("STA")<sup>1</sup> for 30 days, commencing September 18, 2018, to use its Hagerstown, Maryland C-band earth station—call sign E000296—to provide launch and early orbit phase ("LEOP") services for Horizons 3e (S2947). Horizons 3e is expected to be launched on September 18, 2018.<sup>2</sup> 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.<sup>3</sup> 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.

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<sup>1</sup> 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").

<sup>2</sup> 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.

<sup>3</sup> Intelsat will handle the coordination.

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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