

Approved by OMB  
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

*PA: 3-18-15*

*"180 days"*

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
E040174 ABS-3A 180-Day STA Request

1. Applicant

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

*180 days*  
*"with conditions"*



*File # SES-STA-20150203-00053*

*Call Sign E040174 Grant Date 04/23/2015*  
(or other identifier)

Term Dates

*From 04/23/2015 To: 10/30/2015*

*Approved: Susan H. Crandall*

Applicant: Intelsat License LLC  
Call Sign: E040174  
File No.: SES-STA-20150203-00053  
Special Temporary Authority (STA)



"with conditions"

File # SES-STA-20150203-00053

Call Sign E040174 Grant Date 04/23/2015  
(or other identifier)

Term Dates  
From 04/23/2015 To: 10/20/2015

Approved: Paul E. Han

Intelsat License LLC ("Intelsat") is granted STA, beginning April 23, for 180 days to operate its fixed earth station E040174 at Castle Rock, CO at 39° 16' 33.00" N/104° 48' 34.0"W.L. to provide launch and early orbit phase (LEOP) services for ABS-3A satellite to proceed to its orbital location 3° W.L. ABS-3A is licensed by the Papua New Guinea administration.

1. Uplink (Earth-to-space) frequencies will be on 6020.0 MHz and 6025.0 MHz (LHCP) within the coordinated emission and power limits.
2. Downlink (space-to-Earth) frequencies will be on 4194.5 MHz and 4197.0 MHz (LHCP).
3. 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 ABS-3A satellite 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.
4. Grant of this STA is without prejudice to any determination that the Commission may make regarding pending or future Intelsat License LLC applications.
5. All operations under this grant of STA shall be on an unprotected and non-harmful interference basis. Intelsat's E040174 shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
6. In the event of any harmful interference as a result of operations under this grant of STA, Intelsat shall cease operations immediately upon notification of such interference and shall immediately inform the Commission, in writing, of such an event.
7. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Intelsat License LLC's risk.

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.



February 3, 2015

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

Re: Request for Special Temporary Authority  
Castle Rock, Colorado Earth Station E040174

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)<sup>1</sup> for 180 days, commencing upon grant, to use its Castle Rock C-band earth station—call sign E040174—to provide launch and early orbit phase (“LEOP”) services for the ABS-3A satellite.<sup>2</sup> ABS-3A is expected to be launched no earlier than February 27, 2015. The LEOP period is expected to last approximately 240 days.<sup>3</sup>

The ABS-3A LEOP operations will be performed in the following frequency bands: 6020.00 MHz and 6025.00 MHz in the uplink (LHCP), and 4194.5 MHz and 4197.0 MHz in the downlink (LHCP). The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.<sup>4</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 ABS-3A 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.

In further support of this request, Intelsat hereby attaches Exhibit A and B, the Prior Coordination Notice and a waiver request. Intelsat will provide technical information demonstrating that the

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<sup>1</sup> 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”).

<sup>2</sup> The permanent orbital location for ABS-3A, which Intelsat understands is licensed by Papua New Guinea, will be at 3° W.L. The in-orbit testing location will be 3° W.L.

<sup>3</sup> Intelsat is seeking authority for 180 days to accommodate the longer orbit-raising time period required for an electric propulsion satellite.

<sup>4</sup> Intelsat will handle the coordination.

Ms. Marlene H. Dortch  
February 3, 2015  
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operation of the earth station will be compatible with its electromagnetic environment and will not cause harmful interference into any lawfully operating terrestrial facility prior to launch. 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. Intelsat also notes that for purposes of the ABS-3A LEOP mission, it is seeking to operate in the frequencies listed in the request at power levels not to exceed 25.5 dBW.

Finally, Intelsat clarifies that during the ABS-3A LEOP mission, Boeing will serve as the mission manager. Boeing will build and send the commands to the Intelsat antenna, which will process and execute the commands. Telemetry received by Intelsat will be forwarded to Boeing. Intelsat will perform the ranging sessions by sending a tone to the spacecraft periodically. Intelsat will remain in control of the baseband unit, RF equipment, and antenna.

Grant of this STA request will allow Intelsat to help launch the ABS-3A satellite. This, in turn, will result in the provision of VSAT, TV distribution, IP trunking, cellular backhaul, and maritime services from the 3° W.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

|   |                       |                      |                             |
|---|-----------------------|----------------------|-----------------------------|
| <b>2. Contact</b>   |                       |                      |                             |
| <b>Name:</b>  | Susan H. Crandall     | <b>Phone Number:</b> | 703-559-7848                |
| <b>Company:</b>   | Intelsat Corporation  | <b>Fax Number:</b>   | 703-559-8539                |
| <b>Street:</b>  | 7900 Tysons One Place | <b>E-Mail:</b>       | susan.crandall@intelsat.com |
| <b>City:</b>  | McLean                | <b>State:</b>        | VA                          |
| <b>Country:</b>   | USA                   | <b>Zipcode:</b>      | 20008 -3006                 |
| <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).                                   |                       |                      |                             |
| <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 Castle Rock   |                       |                      |                             |
| 8. Latitude (dd mm ss.s h) 39 16 33.0 N   |                       |                      |                             |

|  |   |
|--|---|
| 9. State<br>CO   | 10. Longitude<br>(dd mm ss.s h) 104 48 34.0 W   |
| 11. Please supply any need attachments.<br>Attachment 1: STA Request   | Attachment 2: Exhibit A<br>Attachment 3: Exhibit B  |
| 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;"> <p>Intelsat License LLC herein requests a grant of Special Temporary Authority for 180 days, commencing upon grant, to use its Castle Rock C-band earth station, call sign E040174, to provide launch and early orbit phase services for the ABS-3A satellite. ABS-3A is expected to be launched no earlier than February 27, 2015.</p> </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. | <p style="text-align: center;">Yes <input checked="" type="radio"/> No <input type="radio"/></p>  |
| 14. Name of Person Signing<br>Cynthia J. Grady   | 15. Title of Person Signing<br>Regulatory Counsel, Intelsat Corporation   |
| <p style="text-align: center;"><b>WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT</b><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).</p>  |   |

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