

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
STA Request to Use CRBC Earth Station (E070027) in Support of SKY-B1 IOT

1. Applicant

**Name:** DIRECTV Enterprises, LLC      **Phone Number:** 301-663-0053  
**DBA Name:**      **Fax Number:** 240-358-0569  
**Street:** 6050 Elmer Derr Rd      **E-Mail:** jw0854@att.com  
**City:** Frederick      **State:** MD  
**Country:** USA      **Zipcode:** 21703  
**Attention:** Jack Wengryniuk



File # 5557192070302-00229  
E070027  
Call Sign (or other identifier) 32447      Grant Date  
Term Dates From: 3-28-17 To: 4-27-17  
Approved: [Signature]

Applicant: DIRECTV Enterprises, LLC  
File No.: SES-STA-20170302-00229  
Call Sign: E070027  
Special Temporary Authority (STA)

DIRECTV Enterprises, LLC is granted a special temporary authority, for 30 days, beginning March 28, 2017, to operate its Castle Rock, Colorado earth station (call sign E070027) to support in-orbit testing ("IOT") of the SKY-B1 satellite (S2922) at 43.15° W.L., using the following frequency bands: 19.70-20.20 GHz (space-to-Earth); and 29.50-30.00 GHz (Earth-to-space), under the following conditions:

1. All operators of satellite 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 SKY-B1 mission is as follows: Ph.: (720) 733-7292 – Mr. Tom Loots or (310) 266-2302 – Mr. Gary Angelsatro.
2. The 17.8 - 20.2 GHz band is shared with U.S. Government space stations and associated earth stations in the fixed Satellite Services. Services within the United States over the satellite network of which this is a cooperating earth station are subject to coordination under US334 and operation of the earth station(s) authorized herein will be subject to any technical constraints resulting from this coordination. See 47 C.F.R. Section 2.106, Footnote US334.
3. All operations under this grant of STA shall be on an unprotected and non-harmful interference basis. DIRECTV Enterprises, LLC's 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 as a result of operations under this grant of STA, DIRECTV Enterprises, LLC, shall cease operations immediately upon notification of such interference and shall immediately inform the Commission, in writing, of such an event.
5. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at DIRECTV Enterprises, LLC's risk.



File # SES-STA-20170302-00229  
E 070027  
Call Sign E070027 Grant Date 3-24-17  
(or other identifier)  
Term Dates  
From: 3-28-17 To: 4-27-17  
Approved: Paul E. Glass

<b>2. Contact</b>	
<b>Name:</b> Jennifer Hindin	<b>Phone Number:</b> 202-719-4975
<b>Company:</b> Wiley Rein LLP	<b>Fax Number:</b> 202-719-7049
<b>Street:</b> 1776 K Street, NW	<b>E-Mail:</b> jhindin@wileyrein.com
<b>City:</b> Washington	<b>State:</b> DC
<b>Country:</b> USA	<b>Zipcode:</b> 20006 -
<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 38.0 N	

9. State CO	10. Longitude (dd mm ss.s h) 104 48 31.7 W
11. Please supply any need attachments. Attachment 1: Narrative Attachment 2: Attachment 3:	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 5px;"> <p>DIRECTV Enterprises, LLC requests a grant of special temporary authority for 30 days commencing March 28, 2017 to operate its Castle Rock, Colorado earth station (Call Sign E070027) to support in-orbit testing of the SKY-B1 satellite (Call Sign S2922) in Ka-band frequencies at 43.15 WL.</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. Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Jack Wengryniuk	15. Title of Person Signing Senior Director
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).	

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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.**

**EXHIBIT 1**  
**REQUEST FOR SPECIAL TEMPORARY AUTHORITY**

DIRECTV Enterprises, LLC (“DIRECTV”) respectfully requests a grant of earth station special temporary authority (“STA”)<sup>1</sup> for 30 days commencing March 28, 2017 to operate its Castle Rock, Colorado earth station (Call Sign E070027) to support in-orbit testing (“IOT”) of the SKY-B1 satellite (Call Sign S2922) in Ka-band frequencies at 43.15° W.L.<sup>2</sup>

SKY-B1 successfully launched on February 14, 2017 and began conducting IOT at 33° W.L. on March 1 pursuant to a grant of space station special temporary authority.<sup>3</sup> IOT of the satellite at 33° W.L. is expected to last until approximately March 18, 2017, and the drift to 43.15° W.L. is expected to last approximately 10 days. Due to challenges coordinating with potentially affected Ka-band operators, DIRECTV now plans to conduct IOT of the Ka-band frequencies once the satellite arrives at 43.15° W.L. rather than at the satellite’s temporary location of 33° W.L. as previously contemplated.<sup>4</sup> The SKY-B1 satellite is expected to arrive at 43.15° W.L. on March 28, 2017, and IOT in the Ka-band frequencies is expected to last approximately four hours.

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<sup>1</sup> DIRECTV has filed this STA request, an FCC Form 159, and a \$200.00 filing fee electronically via the International Bureau’s Filing System.

<sup>2</sup> DIRECTV has a pending request to modify the SKY-B1 fixed-satellite space station license to relocate the satellite from its authorized location at 43.1° W.L. to 43.15° W.L. *See* File No. SAT-MOD-20170221-00019. *See also Policy Branch Information; Actions Taken*, Report No. SAT-01158, File No. SAT-AMD-20150806-00054 (May 13, 2016) (Public Notice). This request for earth station special temporary authority to support the in-orbit testing of the 19.7-20.2 GHz (space-to-Earth) and 29.5-30.0 GHz (Earth-to-space) frequencies at 43.15° W.L. is not a request for any grant of market access to the United States in these frequencies. Operations in the Ka-band frequencies will be subject to the authority of the Telecommunications Regulatory Authority of the United Arab Emirates. *See DIRECTV Enterprises, LLC, Attachment to Grant*, File Nos. SAT-RPL-20140221-00026 and SAT-AMD-20150806-00054 (May 11, 2016).

<sup>3</sup> *See Policy Branch Information; Actions Taken*, Report No. SAT-01214, File No. SAT-STA-20170123-00008 (Feb. 3, 2017) (Public Notice).

<sup>4</sup> *See id.*

DIRECTV separately and simultaneously is requesting space station special temporary authority to drift the SKY-B1 satellite from its temporary location at 33° W.L. to its requested permanent location of 43.15° W.L. and to conduct IOT of the satellite in Ka-band frequencies at 43.15° W.L.

The range of earth station frequencies requested to support IOT of the SKY-B1 satellite at 43.15° W.L. are the following:

- 19.7-20.2 GHz (space-to-Earth); and
- 29.5-30.0 GHz (Earth-to-space).

The 24/7 emergency contact information is as follows: Tom Loots at (720) 733-7292 or Gary Angelastro at (310) 266-2302.

Grant of this earth station STA request is in the public interest because it will facilitate IOT of SKY-B1's payloads at 43.15° W.L., a critical step in ensuring that the satellite will be fully operational. Accordingly, DIRECTV respectfully requests that the Commission grant this request.