

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 Operate CRBC Earth Station (E070027) to Support T16 IOT

**1. Applicant**

<b>Name:</b>	DIRECTV Enterprises, LLC	<b>Phone Number:</b>	310-964-4996
<b>DBA Name:</b>		<b>Fax Number:</b>	
<b>Street:</b>	1120 20th Street, NW Suite 1000	<b>E-Mail:</b>	spdulac@att.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20036
<b>Attention:</b>	Steve Dulac		

30 days "With conditions"  
File # SES-STA-20190528-00589  
Call Sign E070027 Grant Date 06/28/2019  
(or other identifier)  
Term Dates  
From: 06/29/2019 To: 07/29/2019  
Approved: Paul E. [Signature]





9. State CO	10. Longitude (dd mm ss.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.) DIRECTV Enterprises, LLC requests a grant of special temporary authority for 30 days to operate its Castle Rock, Colorado earth station (Call Sign E070027) to support in-orbit testing of the T16 satellite (Call Sign S3039) at 134.75 W.L.	
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 Steve Dulac	15. Title of Person Signing Director, Content Technology & Regulatory Policy
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.**

Applicant: DIRECTV Enterprises, LLC-  
File No.: SES-STA-20190508-00589  
Call Sign: E070027  
Special Temporary Authority



With Conditions  
File # SES-STA-20190508-00589

Call Sign E070027 Grant Date 06/28/2019  
(or other identifier)

Term Dates  
From: 06/29/2019 To: 07/29/2019

Approved: Karl E. [Signature]

DIRECTV Enterprises, LLC ("DIRECTV") is granted a special temporary authority for 30 days, starting June 29, 2019, to operate its earth station in Castle Rock, CO, to support in-orbit testing ("IOT") of the T16 satellite (S3039) at the 134.75° W.L. orbital location during T16's drift to 100.85° W.L. orbital location. Operations are limited to frequency bands 28.35-28.6 GHz, 29.25-29.29 GHz, and 29.5-30.0 GHz (Earth-to-space) and 18.3-18.55 GHz, 18.55-18.59 GHz, and 19.7-20.2 GHz (space-to-Earth); and in BSS GHz band 17/24GHz band 17.3-17.7 GHz (space-to-Earth); & 24.75-25.15 GHz (Earth-to-space) under the following conditions:

1. All operations under this grant of special temporary authority shall be on an unprotected and non-harmful interference basis. DIRECTV shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
2. In the event of any harmful interference under this grant of special temporary authority, DIRECTV must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
3. All operators of satellites 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 T16 satellite is Ph.: (310) -429-1624. Ask for Steve Dulac.
4. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at EchoStar's risk.
5. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future DIRECTV's applications.

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.

**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 to operate its Castle Rock, Colorado earth station (Call Sign E070027) to support in-orbit testing (“IOT”) of the T16 satellite (Call Sign S3039) at 134.75° W.L. DIRECTV requests that this special temporary authority commence upon arrival of T16 at 134.75° W.L., which is currently anticipated to be on or about June 29, 2019—nine days after the satellite’s scheduled launch on June 20, 2019. The IOT period is expected to last approximately three weeks, and the subsequent drift to T16’s requested permanent orbital location of 100.85° W.L.<sup>2</sup> is expected to last approximately seven weeks.<sup>3</sup>

DIRECTV separately and simultaneously is requesting space station special temporary authority to conduct IOT of the T16 satellite at 134.75° W.L. to drift the satellite to its requested permanent location of 100.85° W.L.

The range of earth station frequencies requested to support IOT of the T16 satellite at 134.75° W.L. are the following:

FSS Ka-band

- 18.3-18.55 GHz, 18.55-18.59 GHz, and 19.7-20.2 GHz (space-to-Earth); and
- 28.35-28.6 GHz, 29.25-29.29 GHz, and 29.5-30.0 GHz (Earth-to-space).

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<sup>1</sup> DIRECTV has filed this STA request, an FCC Form 159, and a \$210.00 filing fee electronically via the International Bureau’s Filing System.

<sup>2</sup> Although T16 is currently authorized to operate at 102.70° W.L., DIRECTV has filed a modification application to change T16’s authorized orbital location from 102.70° W.L. to 100.85° W.L. See *Modification Application to Change T16 Orbital Location (S3039)*, File No. SAT-MOD-20190508-00036.

<sup>3</sup> DIRECTV intends to file STA extension requests to cover any testing that exceeds 30 days from T16’s arrival at 134.75° W.L.

**BSS 17/24 GHz band**

- 17.3-17.7 GHz (space-to-Earth); and
- 24.75-25.15 GHz (Earth-to-space).

The 24/7 emergency contact information is as follows: Steve Dulac at (310) 429-1624.

Grant of this earth station STA request is in the public interest because it will facilitate IOT of T16's payloads at 134.75° W.L., a critical step in ensuring that the satellite will be fully operational. Accordingly, DIRECTV respectfully requests that the Commission grant this request.