

**** corrected on 05/30/19 ****

S3039 SAT-STA-20190508-00037 IB2019001397
DIRECTV Enterprises, LLC
DIRECTV T16



File # SAT-STA-20190508-00037

Call Sign S3039 Grant Date 05/29/19

(or other identifier)

From see conditions To: see conditions

Approved by OMB 3060-0678

Approved: Stephen J. Duall

**Stephen J. Duall
Chief, Satellite Policy Branch**

***with conditions**

Date & Time Filed: May 8 2019 4:14:31:116PM
File Number: SAT-STA-20190508-00037
Callsign:

**FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY**

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APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
STA Request for T16 (Call Sign S3039) to Conduct IOT at 134.75 W.L.

I. Applicant

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

ATTACHMENT TO GRANT
DIRECTV Enterprises, LLC
IBFS File No. SAT-STA-20190508-00037

IBFS File No(s):	SAT-STA-20190508-00037	<p>GRANTED – With Conditions</p>  <p>International Bureau Satellite Division</p>
Licensee/Grantee:	DIRECTV Enterprises, LLC (DIRECTV)	
Call Sign:	S3039	
Satellite Name:	T16	
Orbital Location: (required station-keeping tolerance)	134.75° W.L. (± 0.05 degrees) ¹	
Administration:	United States	
Nature of Service:	Fixed-Satellite Service (FSS), Direct-to-Home (DTH)	
Scope of Grant:	Grant of special temporary authority for a period of 30 days to conduct in-orbit testing (IOT) and telemetry, tracking, and command (TT&C) at the 134.75° W.L orbital location and to conduct TT&C operations in connection with the drift of T16 to the 100.85° W.L. orbital location. ²	
Service Area(s):	N/A	
Frequencies:	12.2-12.7 GHz (space-to-Earth) 18.3-18.59 GHz (space-to-Earth) 19.7-20.2 GHz (space-to-Earth) 17.3-17.8 GHz (Earth-to-space/space-to-Earth) 24.75-25.15 GHz (Earth-to-space) 28.35-28.6 GHz (Earth-to-space) 29.25-29.29 GHz (Earth-to-space) 29.5-30 GHz (Earth-to-space)	
	TT&C: Telemetry: 12697.0 MHz, 12698.0 MHz Command: 17789.0 MHz, 17791.0 MHz	
<p>Unless otherwise specified herein, operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with Federal Communication Commission's rules not waived herein. This grant is also subject to the following conditions:</p> <ol style="list-style-type: none"> 1. All operations under this grant of special temporary authority must be on an unprotected and non-harmful interference basis, <i>i.e.</i>, T16 must not cause harmful interference to, and must not claim protection from interference caused to it by, any other lawfully operating station. 2. In the event of any harmful interference under this grant of special temporary authority, DIRECTV must cease operations of T16 immediately upon notification of such interference and must inform the Commission, in writing, immediately of such an event. 3. DIRECTV must coordinate the operations of T16 with existing geostationary space stations to ensure that no unacceptable interference results from its operations at the 134.75° W.L. orbital location or during the drift from the 134.75° W.L. orbital location to the 100.85° W.L. orbital location. 4. DIRECTV's operations at the 134.75° W.L. orbital location must be limited to IOT and must not include the provision of commercial services. 		

¹ The Commission's grant of authority for DIRECTV to operate T16 authorized an east-west longitudinal station-keeping tolerance of ±0.025° of its assigned orbital location at 100.85° W.L. See IBFS File No. SAT-RPL-20180913-00071.

² DIRECTV has separately filed a modification application to change T16's authorized orbital location from 102.70° W.L. to 100.85° W.L., which is pending. See IBFS File No. SAT-MOD-20190509-00036.

ATTACHMENT TO GRANT
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5. DIRECTV must operate only the TT&C frequencies on T16 during the space station's drift from the 134.75° W.L. orbital location to the 100.85° W.L orbital location.
6. DIRECTV must notify the Commission within three business days of the commencement of T16's operations pursuant to this grant.

Licensee/grantee is afforded thirty (30) days from the date of release of this action to decline the grant as conditioned. Failure to respond within this period will constitute formal acceptance of the grant as conditioned.

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

Station licenses are subject to the conditions specified in Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. § 309(h).

Action Date:	May 29, 2019
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Term Dates	From: see conditions	To: see conditions
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Approved:



Stephen J. Duall
Chief, Satellite Policy Branch

2. Contact

Name:	Jennifer D. Hindin	Phone Number:	202-719-4975
Company:	Wiley Rein LLP	Fax Number:	202-719-7049
Street:	1776 K Street, NW	E-Mail:	jhindin@wileyrein.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20006 -
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 CRY – Space Station (Geostationary)

5. Type Request

- Change Station Location Extend Expiration Date Other

6. Temporary Orbit Location

7. Requested Extended Expiration Date

8. 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 space station special temporary authority for 30 days to conduct in-orbit testing of the T16 satellite (S3039) at 134.75 W.L. and to drift the satellite to its requested permanent location of 100.85 W.L.

9. 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

10. Name of Person Signing
Steve Dulac

11. Title of Person Signing
Director, Content Technology & Regulatory Policy

12. Please supply any need attachments.

Attachment 1: Narrative

Attachment 2:

Attachment 3:

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.

EXHIBIT 1
REQUEST FOR SPECIAL TEMPORARY AUTHORITY

DIRECTV Enterprises, LLC (“DIRECTV”) respectfully requests a grant of space station special temporary authority (“STA”)¹ for 30 days to conduct in-orbit testing (“IOT”) of the T16 satellite (Call Sign S3039) at 134.75° W.L. and to drift the satellite to its requested permanent location of 100.85° W.L.² 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 drift to 100.85° W.L. is expected to last approximately seven weeks.³

DIRECTV separately and simultaneously is requesting earth station special temporary authority to operate its Los Angeles, California earth station (Call Sign E980285) and two Castle Rock, Colorado earth stations (Call Signs E930304 and E070027) to support IOT of the T16 satellite.

T16 payload testing will be performed in the following frequency bands:

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).

¹ DIRECTV has filed this STA request, an FCC Form 159, and a \$980.00 filing fee electronically via the International Bureau’s Filing System.

² 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.

³ During the drift from 134.75° W.L. to 100.85° W.L., only the satellite’s TT&C frequencies will be utilized. DIRECTV intends to file STA extension requests to cover any testing or drift period 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).

DBS Ku-band

- 12.2-12.7 GHz (space-to-Earth); and
- 17.3-17.8 GHz (Earth-to-space).

Telemetry, Tracking, and Command (“TT&C”) services for T16 will be performed using the following center frequencies:

- 12697 MHz and 12698 MHz (space-to-Earth); and
- 17789 MHz and 17791 MHz (Earth-to-space).

During the IOT of T16, DIRECTV will operate in the above-referenced frequency bands. DIRECTV has identified the operational satellites within +/-6 degrees of the requested IOT location of 134.75° W.L. Coordination has been completed with the operators of such satellites to resolve potential interference issues. In the unlikely event that harmful interference occurs during IOT, contact information has been shared with these operators, and DIRECTV will take all necessary steps to eliminate the interference.

DIRECTV has assessed and limited the probability of T16 becoming a source of debris as a result of collision with large debris or other operational space stations during IOT at 134.75° W.L. T16 will not be located at the same orbital location as another satellite or at an orbital location that has an overlapping station-keeping volume with another satellite. Further, DIRECTV is not aware of any other FCC-licensed system, or any other system applied for and under consideration by the FCC, having an overlapping station-keeping volume with T16 at 134.75° W.L. In addition, DIRECTV is not aware of any system with an overlapping station-

keeping volume with T16 at 134.75° W.L. that is the subject of an International Telecommunication Union (“ITU”) filing and that is either in orbit or progressing towards launch.

To the extent necessary, DIRECTV requests that any waivers granted to T16 at its nominal operational orbital positions be extended to the satellite at 134.75° W.L.

The IOT of T16’s payloads at 134.75° W.L. is a critical step in ensuring that the satellite will be fully operational. This, in turn, will provide additional capacity to customers at the satellite’s nominal operational orbital positions, thereby promoting the public interest. Accordingly, DIRECTV respectfully requests that the Commission grant this request.