

S2641 **SAT-STA-20190703-00056** **IB2019002610**
DIRECTV Enterprises, LLC
DirecTV T10



**with conditions*

File # SAT-STA-20190703-00056

Call Sign S2641 **Grant Date** 07/17/19
(or other identifier)

From 07/17/19 **Term Dates** period of
To: 30 days

Approved:

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

Approved by OMB
3060-0678

Date & Time Filed: Jul 3 2019 4:00:58:380PM
File Number: SAT-STA-20190703-00056
Callsign:

FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY

FOR OFFICIAL USE ONLY


APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
30-Day STA Extension Request to Relocate T10 (Call Sign S2641)


1. 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-20190703-00056

| | | |
|--|---|---|
| IBFS File No(s): | SAT-STA-20190703-00056 | <p style="text-align: center;">GRANTED – With Conditions</p>  <p style="text-align: center;">International Bureau Satellite Division</p> |
| Licensee/Grantee: | DIRECTV Enterprises, LLC (DIRECTV) | |
| Call Sign: | S2641 | |
| Satellite Name: | DIRECTV T10 | |
| Orbital Location: (required station-keeping tolerance) | 102.75° W.L. (±0.05° East-West, ±0.05° North-South) | |
| Administration: | United States of America | |
| Nature of Service: | Fixed Satellite Service (FSS); Telemetry, tracking, & command (TT&C) | |
| Scope of Grant: | Special temporary authority for a period of 30 days to conduct TT&C operations necessary to maintain DIRECTV T10 at the 102.75° W.L. orbital location and to provide FSS at the 102.75° W.L. orbital location. | |
| Service Area(s): | N/A | |
| Frequencies: | <u>FSS Frequencies</u> 18.3-18.8 GHz (space-to-Earth) 28.35-28.6 GHz (Earth-to-space) 29.25-29.5 GHz (Earth-to-space) <u>Telemetry, Tracking, and Command</u> 18300.25 MHz and 18300.75 MHz (space-to-Earth) 29251.0 MHz and 29493.0 MHz (Earth-to-space) | |
| <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"> Operations pursuant to this special authority must be on an unprotected and non-harmful interference basis, i.e. the DIRECTV T10 space station must not cause harmful interference to, and DIRECTV must not claim protection from interference caused to it by, any other lawfully operating station. In the event of any harmful interference, DIRECTV must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event. DIRECTV must operate DIRECTV T10 subject to the conditions contained in the prior authorization in IBFS File No. SAT-LOA-20040909-00169, grant stamp dated March 8, 2005, and subsequent modifications. In particular, DIRECTV must coordinate all of its Ka-band downlink operations with Federal fixed-satellite systems, both geostationary and non-geostationary, in accordance with footnote US334 to the Table of Frequency Allocations, 47 CFR § 2.106. <p>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.</p> <p>This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 CFR § 0.261, and is effective upon release.</p> <p>Station licenses are subject to the conditions specified in Section 309(h) of the Communications Act of 1934, as Space station licenses are subject to conditions specified in Section 309(h) of the Communications Act of 1934, amended, 47 U.S.C. § 309(h).</p> | | |
| Action Date: | July 17, 2019 | |

ATTACHMENT TO GRANT
DIRECTV Enterprises, LLC
IBFS File No. SAT-STA-20190703-00056

| | | |
|---|----------------------------|------------------------------|
| Term Dates | From: July 17, 2019 | To: period of 30 days |
| Approved:  Stephen J. Duall Chief, Satellite Policy Branch | | |

| | |
|--|--|
| 2. Contact | |
| Name: Jennifer D. Hindin Company: Wiley Rein LLP Street: 1776 K Street, NW City: Washington Country: USA Attention: | Phone Number: 202-719-4975 Fax Number: 202-719-7049 E-Mail: jhindin@wileyrein.com State: Zipcode: 20006 - 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? <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 CRY – Space Station (Geostationary) | |
| 5. Type Request <input checked="" type="radio"/> Change Station Location <input type="radio"/> Extend Expiration Date <input type="radio"/> Other | |
| 6. Temporary Orbit Location 102.75 WL | 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 an extension of its grant of special temporary authority for an additional 30 days commencing July 17, 2019 to operate its T10 satellite (Call Sign S2641) at the 102.75 W.L. orbital location.

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 an extension of its grant of special temporary authority (“STA”)¹ for an additional 30 days commencing July 17, 2019 to operate its T10 satellite (Call Sign S2641) at the 102.75° W.L. orbital location. Pursuant to Section 1.62 of the Commission’s rules, DIRECTV will continue to operate T10 at 102.75° W.L. pursuant to the terms and conditions of its existing STA pending action on this timely filed renewal request.²

T10 is permanently authorized to operate at 102.85° W.L.³ On June 6, 2019, the Commission granted DIRECTV’s 30-day STA request to drift T10 from 102.85° W.L. to 102.75° W.L. and to operate the telemetry, tracking, and command (“TT&C”) and communications frequencies on the T10 satellite at 102.75° W.L. and during the drift from 102.85° W.L. to 102.75° W.L.⁴ As explained in that application, DIRECTV is implementing certain changes to its existing satellite fleet in connection with the recent launch of DIRECTV’s T16 satellite (Call Sign S3039) on June 20, 2019. The drift began on June 17, 2019 and was completed on July 2, 2019. On June 25, 2019, DIRECTV filed a space station modification application to permanently change the authorized orbital location of T10 from 102.85° W.L. to

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 See 47 C.F.R. § 1.62.

³ See *Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-01080, File No. SAT-MOD-20150320-00012 (May 1, 2015).

⁴ See *Satellite Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-01395, File No. SAT-STA-20190531-00043 (June 7, 2019).

102.75° W.L.⁵ DIRECTV respectfully submits this STA extension request to continue operating T10 at 102.75° W.L. pending action on DIRECTV's space station modification application.

At 102.75° W.L., DIRECTV will continue to operate the TT&C and communications frequencies on the T10 satellite in conformance with FCC rules and DIRECTV's coordination agreements concerning the nominal 103° W.L. orbital location. As such, grant of this STA will not result in increased risk of harmful interference. In the unlikely event that any interference should occur, DIRECTV will take all reasonable steps to eliminate such interference.

T10's frequencies are as follows:

TT&C

- 18300.25 MHz and 18300.75 MHz (space-to-Earth).
- 29251.0 MHz and 29493.0 MHz (Earth-to-space).

Communications

- 18.3-18.8 GHz (space-to-Earth).
- 28.35-28.6 GHz and 29.25-29.5 GHz (Earth-to-space).

DIRECTV has assessed and limited the probability of the space station becoming a source of debris as a result of collisions with large debris or other operational space stations. Apart from DIRECTV's T12 satellite (Call Sign S2797),⁶ which DIRECTV will manage internally to ensure safe station-keeping, T10 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. Although DIRECTV's T15 satellite (Call Sign S2930) is permanently

⁵ See *Modification Application to Change T10 Orbital Location (Call Sign S2641)*, File No. SAT-MOD-20190625-00050.

⁶ T12 is permanently authorized to operate at 102.8° W.L. See *Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-01084, File Nos. SAT-MOD-20150320-00013 & SAT-MOD-20150327-00015 (May 15, 2015). T12's 17/24 GHz BSS band payload was originally authorized under Call Sign S2796, which was consolidated with Call Sign S2797 in September 2017.

authorized to operate at 102.75° W.L.,⁷ T15 is currently operating at 100.85° W.L. pursuant to a grant of special temporary authority,⁸ and DIRECTV has filed a modification application to permanently relocate T15 to 102.85° W.L.⁹ Additionally, although DIRECTV's T16 satellite 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.¹⁰ 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 T10 at 102.75° W.L. DIRECTV is also not aware of any other system with an overlapping station-keeping volume with T10 that is the subject of an ITU filing that is either in orbit or progressing towards launch.

Grant of this STA request will serve the public interest because it will facilitate DIRECTV's fleet management operations in connection with the recent launch of DIRECTV's T16 satellite, which will extend coverage, improve service performance, and provide additional capacity to DIRECTV customers. Accordingly, DIRECTV respectfully requests that the Commission grant this request.

⁷ See *Policy Branch Information: Actions Taken*, Public Notice, Report No. SAT-01086, File No. SAT-LOA-20140825-00094 (May 22, 2015); *Policy Branch Information: Actions Taken*, Public Notice, Report No. SAT-01084, File No. SAT-MOD-20140612-00066 (May 15, 2015). T15's 17/24 GHz BSS band payload was originally authorized under Call Sign S2712, which was consolidated with Call Sign S2930 in September 2017.

⁸ See *Satellite Policy Branch Information: Actions Taken*, Public Notice, Report No. SAT-01395, File No. SAT-STA-20190416-00028 (June 7, 2019).

⁹ See *Modification Application to Change T15 Orbital Location (Call Sign S2930)*, File No. SAT-MOD-20190625-00051.

¹⁰ See *Modification Application to Change T16 Orbital Location (S3039)*, File No. SAT-MOD-20190508-00036. On May 29, 2019, DIRECTV was granted special temporary authority to conduct in-orbit testing for T16 at 134.75° W.L. and to drift the satellite to its requested permanent location at 100.85° W.L. See *STA Request for T16 (Call Sign S3039) to Conduct IOT at 134.75° W.L.*, File No. SAT-STA-20190508-00037 (stamp grant May 29, 2019).