

S2641 SAT-MOD-20190625-00050 IB2019002522
DIRECTV Enterprises, LLC



File # SAT-MOD - 20190625 - 00050

Call Sign S2641 Grant Date 08/13/19
(or other identifier)

Term Dates
From 08/13/19 To: 09/13/22

Approved by OMB
3060-0678

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

Date & Time Filed: Jun 25 2019 2:23:45:583PM
File Number: SAT-MOD-20190625-00050

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM	FCC Use Only
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	


APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
Modification Application to Change T10 Orbital Location (Call Sign S2641)

1-8. Legal Name of 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-MOD-20190625-00050

IBFS File No(s):	SAT-MOD-20190625-00050	<p>GRANTED – With Conditions</p>  <p>International Bureau Satellite Division</p>
Licensee/Grantee:	DIRECTV Enterprises, LLC (DIRECTV)	
Call Sign:	S2641	
Satellite Name:	T10 (formerly DIRECTV 10)	
Orbital Location: (required station-keeping tolerance)	102.75° W.L. (± 0.025 degrees)	
Administration:	United States of America	
Nature of Service:	Fixed-Satellite Service (FSS)	
Scope of Grant:	Authority to specify operations at the 102.75° W.L. orbital location instead of the previously authorized orbital location of 102.85° W.L. and to provide FSS service at 102.75° W.L.	
Previous Grants:	<p>Authority to operate DIRECTV 10 at 102.85° W.L. <i>See</i> IBFS File No. SAT-MOD-20150320-00012 (granted Apr. 30, 2015)</p> <p>Authority to operate DIRECTV 10 at 102.815° W.L. <i>See</i> IBFS File No. SAT-MOD-20091009-00109 (granted Feb. 26, 2010)</p> <p>Authority to operate DIRECTV 10 at 102.775° W.L. <i>See</i> IBFS File No. SAT-MOD-20070626-00086 (granted Dec. 17, 2007)</p> <p>Authority to launch and operate DIRECTV 10 at 102.8° W.L. <i>See</i> IBFS File No. SAT-LOA-20040909-00169 (granted Mar. 7, 2005)</p>	
Service Area(s):	CONUS, Alaska, Hawaii, Puerto Rico	
Frequencies¹:	<p>18.3-18.8 GHz (space-to-Earth) 28.35-28.6 GHz (Earth-to-space) 29.25-29.5 GHz (Earth-to-space)</p> <p><u>Telemetry, Tracking, and Command</u> 18.30025 GHz and 18.30075 GHz (space-to-Earth) 29.2510 GHz and 29.4930 GHz (Earth-to-space)</p>	
<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. DIRECTV must prepare the necessary information, as may be required for submission to the International Telecommunication Union (ITU), to initiate and complete the advance publication, international coordination, due diligence, and notification process for this space station, in accordance with the ITU Radio Regulations. DIRECTV shall be responsible for all cost-recovery fees associated with ITU filings. No protection from interference caused by radio stations authorized by other administrations is guaranteed unless coordination and notification procedures are timely completed or, with respect to individual administrations, by successfully completing coordination agreements. Any radio station authorization for which coordination has not been completed may be subject to additional terms and conditions as required to effect coordination of the frequency assignments with other administrations. <i>See</i> 47 CFR § 25.111(b). 		

¹ T10 is authorized to use the 18.3-18.59 GHz (space-to-Earth) and 28.35-28.6 GHz, 29.25-29.5 (Earth-to-space) frequency bands, but these frequencies will be used for backhaul rather than direct provision of service to subscribers.

ATTACHMENT TO GRANT
DIRECTV Enterprises, LLC
IBFS File No. SAT-MOD-20190625-00050


2. DIRECTV must maintain the T10 space station within an east-west longitudinal station-keeping tolerance of $\pm 0.025^\circ$ of its assigned 102.75° W.L. orbital location.²
3. Prior to commencing operations, DIRECTV must coordinate its space-to-Earth operations in the 18.3-18.8 GHz frequency band with the U.S. Federal systems, including Federal operations to earth stations in foreign countries, in accordance with Footnote US334 to the U.S. Table of Frequency Allocations, 47 CFR § 2.106. Two weeks prior to the start of any operations in the 18.3-18.59 GHz frequency band, DIRECTV must provide contact information for a 24/7 point of contact for the resolution of any harmful interference to the Federal user, Jimmy Nguyen, Email: Jimmy.Nguyen@us.af.mil.
4. The power flux-density (PFD) at the Earth's surface produced by the emissions from the T10 space station for all atmospheric conditions, and for all methods of modulation in the 18.3-18.59 GHz frequency band (space-to-Earth), must not exceed a level of -118 dBW/m²/MHz at any angle of arrival.
5. In the 28.35-28.6 GHz (Earth-to-space) frequency band reception is permitted at levels up to the applicable equivalent power flux-density requirements of Article 22 of the ITU Radio Regulations.
6. The 29.25-29.5 GHz frequency band is designated for uplinks for FSS systems using geostationary satellites and for feeder uplinks for Mobile Satellite Systems using non-geostationary orbit satellites on a co-primary basis. Communications between U.S.-licensed earth stations and the T10 space station in the 29.25-29.5 GHz frequency band must comply with sections 25.258 and 25.278 of the Commission's rules. 47 CFR §§ 25.258 and 25.278.
7. DIRECTV must file with the Commission the information required by section 25.172 of the Commission's rules, 47 CFR § 25.172.
8. Nothing in this grant changes the license term for the T10 space station (Call Sign S2641), which expires on September 13, 2022.

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:	August 13, 2019	
Term Dates	From: August 13, 2019	To: September 13, 2022

Approved:

 Stephen J. Duall
 Chief, Satellite Policy Branch

² DIRECTV T10, T12, and T15 each operate within an east-west longitudinal station-keeping tolerance of $\pm 0.025^\circ$ of their respective assigned orbital locations.

9-16. Name of Contact Representative

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

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

- a1. Earth Station
- a2. Space Station

- (N/A) b1. Application for License of New Station
- (N/A) b2. Application for Registration of New Domestic Receive-Only Station
- b3. Amendment to a Pending Application
- b4. Modification of License or Registration
- b5. Assignment of License or Registration
- b6. Transfer of Control of License or Registration
- b7. Notification of Minor Modification
- (N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite
- (N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States
- (N/A) b10. Other (Please specify)
- (N/A) b11. Application for Earth Station to Access a Non-U.S. satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States
- (N/A) b12. Application for Database Entry
- b13. Amendment to a Pending Database Entry Application
- b14. Modification of Database Entry

17c. 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):

17d.

Fee Classification BFY – Space Station Modification (Geostationary)

18. If this filing is in reference to an existing station. enter:

(a) Call sign of station:
S2641

19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number:

(a) Date pending application was filed: (b) File number:

SATMOD2015032000012

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:

- a. Fixed Satellite
- b. Mobile Satellite
- c. Radiodetermination Satellite
- d. Earth Exploration Satellite
- e. Direct to Home Fixed Satellite
- f. Digital Audio Radio Service
- g. Other (please specify)

21. STATUS: Choose the button next to the applicable status. Choose only one.

- Common Carrier Non-Common Carrier

22. If earth station applicant, check all that apply.

- Using U.S. licensed satellites
- Using Non-U.S. licensed satellites

23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:

- Connected to a Public Switched Network Not connected to a Public Switched Network N/A

24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).

- a. C-Band (4/6 GHz) b. Ku-Band (12/14 GHz)
- c. Other (Please specify upper and lower frequencies in MHz.)

Frequency Lower: 18300

Frequency Upper: 29500

(Please specify additional frequencies in an attachment)

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.

- a. Fixed Earth Station
- b. Temporary-Fixed Earth Station
- c. 12/14 GHz VSAT Network
- d. Mobile Earth Station
- e. Geostationary Space Station
- f. Non-Geostationary Space Station
- g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY:

- Transmit/Receive Transmit-Only Receive-Only N/A

"For Space Station applications, select N/A."

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)

- a -- authorization to add new emission designator and related service
- b -- authorization to change emission designator and related service
- c -- authorization to increase EIRP and EIRP density
- d -- authorization to replace antenna
- e -- authorization to add antenna
- f -- authorization to relocate fixed station
- g -- authorization to change frequency(ies)
- h -- authorization to add frequency
- i -- authorization to add Points of Communication (satellites & countries)
- j -- authorization to change Points of Communication (satellites & countries)
- k -- authorization for facilities for which environmental assessment and radiation hazard reporting is required
- l -- authorization to change orbit location
- m -- authorization to perform fleet management
- n -- authorization to extend milestones
- o -- Other (Please specify)

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments. Yes No

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

29. Is the applicant a foreign government or the representative of any foreign government?	<input type="radio"/> Yes <input checked="" type="radio"/> No
30. Is the applicant an alien or the representative of an alien?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

Yes No N/A

34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.

BASIC QUALIFICATIONS

35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules?
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.

Yes No

36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explanation of circumstances.

Yes No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explanation of circumstances.

Yes No

38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances

Yes No

39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhibit, an explanation of the circumstances.

Yes No

40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.

Question 40

41. 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

42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137. as appropriate. If No, proceed to question 43.

Yes No

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?

43. Description. (Summarize the nature of the application and the services to be provided). (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 seeks to modify its authorization for T10 (Call Sign S2641) to change the authorized orbital location from 102.85 WL to 102.75 WL.

Narrative

43a. Geographic Service Rule Certification

By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.

A

By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.

B

By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.

C

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applicable response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing
Steve Dulac

→

46. 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).

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.

**Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, DC 20554**

In the Matter of)	
)	
DIRECTV ENTERPRISES, LLC)	File No. SAT-MOD-_____
)	
Application to Modify Authorization for T10)	
(S2641))	

**APPLICATION OF DIRECTV ENTERPRISES, LLC
TO MODIFY AUTHORIZATION FOR T10 (S2641)**

DIRECTV Enterprises, LLC (“DIRECTV”), pursuant to Section 25.117 of the rules of the Federal Communications Commission (“FCC” or “Commission”),¹ hereby requests to modify its authorization for T10 (call sign S2641).² Specifically, DIRECTV seeks authority to change the authorized orbital location of T10 from 102.85° W.L. to 102.75° W.L.

In accordance with the Commission’s rules,³ this application is being filed electronically as an attachment to FCC Form 312. Because the satellite will be relocated just 0.10° from its currently authorized orbital location, the technical information on file with the Commission for T10 (including the technical information submitted on Schedule S) remains unchanged and is incorporated by reference.⁴ To the extent necessary, DIRECTV requests that any previously granted technical waivers continue to apply to the operation of T10 at 102.75° W.L.

¹ 47 C.F.R. § 25.117.

² *Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-01080, File No. SAT-MOD-20150320-00012 (May 1, 2015).

³ See 47 C.F.R. § 25.117(c).

⁴ See IBFS File Nos. SAT-MOD-20150320-00012, SAT-MOD-20091009-00109, SAT-MOD-20070626-00086, SAT-LOA-20040909-00169.

I. PROPOSED MODIFICATION AND PUBLIC INTEREST SHOWING

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. T10 is a Ka-band satellite operating in the 18.3-18.8 GHz (space-to-Earth) and 28.35-28.6 GHz/29.25-29.5 GHz (Earth-to-space) frequency bands.⁵ On June 6, 2019, the Commission granted DIRECTV's request for special temporary authority to drift T10 from its current location at 102.85° W.L. to 102.75° W.L. and to operate the 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.⁶ By this modification application, DIRECTV seeks authority to permanently change the authorized orbital location of T10 from 102.85° W.L. to 102.75° W.L. DIRECTV's T15 satellite (Call Sign S2930) is permanently authorized to operate at 102.75° W.L.⁷ but is currently operating at 100.85° W.L. pursuant to a grant of special temporary authority.⁸ DIRECTV is simultaneously filing a separate modification application to permanently change the authorized orbital location of T15 from 102.75° W.L. to 102.85° W.L.

Grant of this relocation request will not result in increased risk of harmful interference.

DIRECTV will operate T10's TT&C and communications frequencies at 102.75° W.L. in

⁵ T10's telemetry, tracking, and command ("TT&C") frequencies are 18300.25 MHz and 18300.75 MHz (space-to-Earth) and 29251.0 MHz and 29493.0 MHz (Earth-to-space).

⁶ See *Satellite Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-01395, File No. SAT-STA-20190531-00043 (June 7, 2018).

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).

conformance with FCC rules and DIRECTV's coordination agreements concerning the nominal 103° W.L. orbital location. DIRECTV will operate T10 at 102.75° W.L. in accordance with all previously imposed FCC conditions.

Grant of this application 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.

II. MILESTONES AND BOND

DIRECTV requests grant of this application without milestones or a bond because the Commission's milestone and bond requirements do not apply to satellites that are already in-orbit and operating.⁹

III. ITU COST RECOVERY

DIRECTV is aware that processing fees are currently charged by the International Telecommunication Union ("ITU") for satellite filings and that Commission applicants are responsible for any and all fees charged by the ITU.¹⁰ DIRECTV is aware of and unconditionally accepts this requirement and responsibility to pay any ITU cost recovery fees associated with the ITU filings that the Commission makes on behalf of DIRECTV for the satellite relocation proposed in this application.

⁹ See, e.g., *Intelsat License LLC, Modification Application to Redeploy and Operate Intelsat 16 at 58.1° W.L.*, File No. SAT-MOD-20160201-00009, Condition No. 12 (stamp grant May 18, 2016) ("Because Intelsat 16 is already in-orbit and operating, grant of authority to operate Intelsat 16 at 58.1° W.L. is not subject to milestone conditions and Intelsat is not required to post a bond. As such, waiver of Sections 25.164(a) and 25.165 of the Commission's rules is not necessary.").

¹⁰ See *Implementation of ITU Cost Recovery Charges for Satellite Network Filings*, Public Notice, 16 FCC Rcd 18732 (2001).

IV. CONCLUSION

For the reasons set forth above, DIRECTV respectfully requests that the Commission grant this modification application.

Respectfully submitted,

DIRECTV ENTERPRISES, LLC

By: /s/ Steve Dulac
Steve Dulac
Director, Content Technology & Regulatory
Policy

Of Counsel:

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June 25, 2019