

S2191 SAT-MOD-20170912-00129 IB2017002543
DIRECTV Enterprises, LLC
SPACEWAY 1



*with conditions

File # SAT-MOD-20170912-00129

Call Sign 52191 Grant Date 04/25/18
(or other identifier)

Term Dates
From 04/25/18 To: 12/31/25

Approved: Steph J. Duall

Steph J. Duall
Chief, Satellite Policy Branch

Approved by OMB
3060-0678

Date & Time Filed: Sep 12 2017 4:03:23:173PM
File Number: SAT-MOD-20170912-00129

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 Request to Relocate SPACEWAY 1 Satellite to 138.9 WL and Extend License Term

1-8. Legal Name of Applicant

Name:	DIRECTV Enterprises, LLC	Phone Number:	301-663-0053
DBA Name:		Fax Number:	240-358-0569
Street:	2230 E. Imperial Hwy CA/LAI/N340	E-Mail:	jw0854@att.com
City:	El Segundo	State:	CA
Country:	USA	Zipcode:	90245 -
Attention:	Jack Wengryniuk		

ATTACHMENT TO GRANT
DIRECTV, Inc.
 IBFS File No. SAT-MOD-20170912-00129

IBFS File No(s):	SAT-MOD-20170912-00129	<p>GRANTED – With Conditions</p>  <p>International Bureau Satellite Division</p>
Licensee/Grantee:	DIRECTV Enterprises, LLC (DIRECTV)	
Call Sign:	S2191	
Satellite Name:	Spaceway 1	
Orbital Location: (required station-keeping tolerance)	138.9° W.L. (+/- 0.05 degrees)	
Administration:	United States of America	
Nature of Service:	Fixed-Satellite Service (FSS)	
Scope of Grant:	<p>Authority to provide FSS via Spaceway 1 at the 138.9° W.L. orbital location and to conduct telemetry, tracking and command (TT&C) functions related to drifting Spaceway 1 to, and maintaining the space station at, the 138.9° W.L. orbital location</p> <p>Extension of the license term for Spaceway 1 from October 20, 2020, to December 31, 2025.</p>	
Previous Grant(s):	<p>Modification of authority to permit operation of Spaceway-1 at 102.925° W.L. in the 18.3-18.8 GHz, 19.7-20.2 GHz, 28.35-28.60 GHz, and 29.5-30.0 GHz frequency bands. IBFS File No. SAT-MOD-20091009-00108 (granted Feb. 26, 2010).</p> <p>Modification of authority to permit operation of Spaceway-1 at 102.885° W.L. in the 18.3-18.8 GHz, 19.7-20.2 GHz, 28.35-28.60 GHz, and 29.5-30.0 GHz frequency bands. IBFS File No. SAT-MOD-20070626-00087 (granted Dec. 13, 2007).</p> <p>Modification of authority to permit launch and operation Spaceway-1 at 102.8° W.L. in the 18.365-18.53 GHz, 18.57-18.735 GHz, 19.7-20.2 GHz, 28.36-28.525 GHz, 29.26-29.425 GHz, and 29.5-30.0 GHz frequency bands. IBFS File No. SAT-MOD-20041122-00211 (granted Feb. 10, 2005).</p> <p>Authority to launch and operate Spaceway-1 at 103.05° W.L. in the 18.365-18.53 GHz, 18.57-18.735 GHz, 19.7-20.2 GHz, 28.36-28.525 GHz, 29.26-29.425 GHz, and 29.5-30.0 GHz frequency bands. IBFS File No. SAT-MOD-20040614-00114 (granted Nov. 4, 2004).</p>	
Service Area(s):	Primarily Alaska (see .gxt files attachments)	
Frequencies:	<p>18.3-18.8 GHz and 19.7-20.2 (space-to-Earth) 28.35-28.60 and 29.25-30.00 GHz (Earth-to-space)</p> <p>TT&C center frequencies: Telemetry: 19701.25 MHz and 19702.25 MHz Command: 29501.302 MHz and 29509.1146 MHz</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 shall prepare the necessary information, as may be required, for submission to the International Telecommunication Union to initiate and complete the advance publication, international coordination, due diligence, and notification process of this space station, in accordance with the ITU Radio Regulations. DIRECTV shall be held responsible for all cost recovery fees associated with these ITU filings. We also note that no protection from interference caused by radio stations authorized by 		

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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 of other administrations. *See* 47 CFR § 25.111(b).

2. All operations during Spaceway 1's drift to the 138.9° W.L. orbital location must be on an unprotected and non-harmful interference basis, *i.e.* DIRECTV must not cause harmful interference to, and must not claim protection from interference caused to it by, any other lawfully operating stations.
3. In the event of harmful interference during Spaceway 1's drift to the 138.9° W.L. orbital location, DIRECTV must cease operations immediately upon notification of such interference, and inform the Commission, in writing, immediately of such an event.
4. During the drift from the 102.925° W.L. orbital location to the 138.9° W.L. orbital location, DIRECTV must not operate the communications payload on Spaceway 1.
5. DIRECTV must operate SPACEWAY 1 at the 138.9° W.L. orbital location in compliance with all existing or future coordination agreements for this location.
6. DIRECTV must coordinate its downlink operations for the specific frequencies authorized in the 18.3-18.8 GHz and 19.7-20.2 GHz frequency bands (space-to-Earth) with United States government systems in accordance with footnote US334 to the Table of Frequency Allocation, 47 CFR § 2.106. DirecTV should be aware that there are US Government satellite operations at the 141° W.L. orbital location and that US334 coordination may not be based on the Commission's two-degree spacing policy. Prior to initiating service at 133.9 WL, DIRECTV must complete US334 coordination with federal operations. Furthermore, DIRECTV's operations of the Spaceway 1 satellite must comply with the coordination agreement.
7. DIRECTV must conduct its operations pursuant to this authorization in manner consistent with the power flux-density requirements of footnote US255 to the Table of Frequency Allocation, 47 CFR § 2.106, 47 CFR § 25.138(a)(6), and 47 CFR § 25.208(d), of the Commission's Rules.
8. The operations of SPACEWAY 1 and associated earth stations must comport with the applicable uplink and downlink limits in 47 CFR § 25.140(a)(3) of the Commission's rules, unless DIRECTV coordinates any non-conforming operations with the operations of U.S.-licensed geostationary orbit space stations within 6 degrees of the 138.9 W.L. orbital location. DIRECTV must also comport with the maximum power limits indicated in existing or future coordination agreements at 138.9 W.L. orbital location. Non-conforming operation must also be coordinated with respect to those operations of non-U.S.-licensed space stations within 6 degrees of 138.9 W.L. involving approved communications with U.S.-licensed earth stations.
9. DIRECTV's request for a waiver of Sections 25.114(d)(14) and 25.283(c) of the Commission's rules, 47 CFR §§ 25.114(d)(14) and 25.283(c), with respect to pressurant that will not be vented at the satellite's end of life IS GRANTED. DIRECTV states that Spaceway 1 is a Boeing 702 spacecraft that is not designed to vent the pressurant used during orbit raising, and that the pressurant was permanently isolated from the propulsion system soon after launch. DIRECTV states the residual helium is contained in two tanks and has a mass of 0.5096 kilograms in a volume of 0.1372 cubic meters for each tank. DIRECTV states the residual xenon is contained in two tanks and has a mass of 5.05 kilograms in a volume of 0.0688 cubic meters for each tank. Spaceway 1 was launched on April 26, 2005, before

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Section 25.114(d)(14) became effective.

10. The license term for Spaceway 1 is extended from October 20, 2020, to December 31, 2025.

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:	April 25, 2018
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Term Dates	From: April 25, 2018	To: December 31, 2025
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Approved:



Stephen J. Duall
Chief, Satellite Policy Branch

9-16. Name of Contact Representative

Name:	Jennifer 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:
S2191

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:

SATMOD2009100900108

TYPE OF SERVICE

<p>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:</p> <p><input checked="" type="checkbox"/> a. Fixed Satellite <input type="checkbox"/> b. Mobile Satellite <input type="checkbox"/> c. Radiodetermination Satellite <input type="checkbox"/> d. Earth Exploration Satellite <input type="checkbox"/> e. Direct to Home Fixed Satellite <input type="checkbox"/> f. Digital Audio Radio Service <input type="checkbox"/> g. Other (please specify)</p>	
<p>21. STATUS: Choose the button next to the applicable status. Choose only one. <input checked="" type="radio"/> Common Carrier <input checked="" type="radio"/> Non-Common Carrier</p>	<p>22. If earth station applicant, check all that apply. <input type="checkbox"/> Using U.S. licensed satellites <input type="checkbox"/> Using Non-U.S. licensed satellites</p>
<p>23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities: <input checked="" type="radio"/> Connected to a Public Switched Network <input checked="" type="radio"/> Not connected to a Public Switched Network <input checked="" type="radio"/> N/A</p>	
<p>24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s). <input type="checkbox"/> a. C-Band (4/6 GHz) <input type="checkbox"/> b. Ku-Band (12/14 GHz) <input checked="" type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.) Frequency Lower: 18300 Frequency Upper: 30000 (Please specify additional frequencies in an attachment)</p>	

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 checked="" type="radio"/> No <input type="radio"/> N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input 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 checked="" type="radio"/> No <input 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.

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 the SPACEWAY 1 satellite (Call Sign S2191) to relocate SPACEWAY 1 from 102.925 WL to 138.9 WL and to extend its license term through December 31, 2025.

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
Jack Wengryniuk

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46. Title of Person Signing
Distinguished Member of the Technical Staff

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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