

S2811

SAT-MOD-20181016-00078

EchoStar Satellite Operating Corporation
ECHOSTAR-15

IB2018008556

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File Number: SAT-MOD-20181016-00078File # SAT-MOD-20181016-00078Call Sign S2811 Grant Date 12/04/18

(or other identifier)

Term Dates See
From 12/04/18 To: conditions

Approved:

Handwritten signature of Stephen J. Duall.

Stephen J. Duall
Chief, Satellite Policy BranchApproved by OMB
3060-0678

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

Enter a description of this application to identify it on the main menu:
EchoStar 15 Modification to Operate on DBS Channels

1-8. Legal Name of Applicant

Name: EchoStar Satellite Operating Corporation **Phone Number:** 301-428-5893

DBA
Name:

Street: 100 Inverness Terrace East **E-Mail:** jennifer.manner@echostar.com

City: Englewood **State:** CO

Country: USA **Zipcode:** 80112 –

Attention: Jennifer A Manner

ATTACHMENT TO GRANT
EchoStar Satellite Operating Corporation
IBFS File No. SAT-MOD-20181016-00078

IBFS File No(s):	SAT-MOD-20181016-00078	G R A N T E D – With Conditions  International Bureau Satellite Division
Licensee/Grantee:	EchoStar Satellite Operating Corporation (EchoStar)	
Call Sign:	S2811	
Satellite Name:	EchoStar 15	
Orbital Location: (required station-keeping tolerance)	61.65° W.L. (+/- 0.05 degrees east-west station keeping)	
Administration:	United States of America	
Nature of Service:	Direct Broadcast Service (DBS)	
Scope of Grant:	Authority to provide DBS over channels 3-32 at the 61.65° W.L. orbital location.	
Prior Grants:	<ul style="list-style-type: none"> • Authority to operate EchoStar 15 as an in-orbit spare at the 61.65° W.L. orbital location. See IBFS File No. SAT-MOD-20150911-00063 & SAT-AMD-20151221-00084 (granted Feb. 24, 2016). • Authority to continue to provide service via EchoStar 15 from the 45.1° W.L. orbital location using the 12.2-12.7 GHz (space-to-Earth) and 17.3-17.8 GHz (Earth-to-space) frequency bands until such time as EchoStar chooses to repoint EchoStar 15 as described in its application, subject to prior notification. See IBFS File No. SAT-MOD-20131030-00126 (granted Jul. 30, 2014). • Modification of the authorization for EchoStar 15 to specify operations at the 45.1° W.L. orbital location, instead of 44.9° W.L. in the 12.2-12.7 GHz (space-to-Earth) and 17.3-17.8 GHz (Earth-to-space) frequency bands. See IBFS File No. SAT-MOD-20130503-00066 (granted Jun. 20, 2013). • Modification of the authorization for EchoStar 15 to specify operations at the 44.9° W.L. orbital location, instead of 61.55° W.L. in the 12.2-12.7 GHz (space-to-Earth) and 17.3-17.8 GHz (Earth-to-space) frequency bands. See IBFS File No. SAT-MOD-20120814-00130 (granted Dec. 13, 2012). • Modification of authorization to operate EchoStar 15 at 61.55° W.L. on Channels 23 and 24 and special temporary authority to operate on Channels 1 and 2. See IBFS File No. SAT-MOD-20120301-00035 (granted Jun. 22, 2012). • Authority to construct, launch, and operate EchoStar 15 at the 61.55° W.L. orbital location, operating on DBS channels 1-22 and 25-32 and with the capability of operating on DBS channels 23 and 24 in the 17.3-17.8 GHz (Earth-to-space) and 12.2-12.7 GHz (space-to-Earth) frequency bands. See IBFS File No. SAT-LOA-20100310-00043 (granted Jul. 1, 2010). 	
Service Area(s):	See IBFS File No. SAT-MOD-20150911-00063 (Schedule S at S6).	
Frequencies:	12.2-12.7 GHz (space-to-Earth) 17.3-17.8 GHz (Earth-to-space) Telemetry, tracking, and command: 12.692 GHz (space-to-Earth) 12.693 GHz (space-to-Earth) 12.6945 GHz (space-to-Earth) 12.6985 GHz (space-to-Earth) 17.7915 GHz (Earth-to-space) 17.7935 GHz (Earth-to-space)	

ATTACHMENT TO GRANT
EchoStar Satellite Operating Corporation
IBFS File No. SAT-MOD-20181016-00078

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:

1. Operations pursuant to this authority shall be in accordance with the conditions imposed in *EchoStar Satellite Operating Corporation Applications for Special Temporary Authority to Operate Direct Broadcast Satellite Service Space Stations EchoStar 3, EchoStar 12, EchoStar 15, and EchoStar 16 on Channels 1 and 2 at the 61.5° W.L. Orbital Location*, Order and Authorization, 27 FCC Rcd 7138, 7141-42, ¶ 11 (Int'l Bur. Sat. Div. 2012).
2. EchoStar must maintain the EchoStar 15 satellite at 61.65° W.L. with an east-west longitudinal station-keeping tolerance of +/-0.05 degrees.
3. Grant of this modification application does not change the expiration date of the authorization for EchoStar 15, which is August 6, 2020.

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:	December 4, 2018	
Term Dates	From: December 4, 2018	To: see conditions

Approved:



Stephen J. Duall
Chief, Satellite Policy Branch

9-16. Name of Contact Representative

Name:	Jennifer A. Manner	Phone Number:	301-428-5893
Company:	EchoStar Satellite Operating Corporation	Fax Number:	
Street:	11717 Exploration Lane	E-Mail:	jennifer.manner@echostar.com
City:	Germantown	State:	MD
Country:	USA	Zipcode:	20876-
Attention:		Relationship:	Same

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
- 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:
S2811

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:
	SATMOD2015091100063

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) DBS

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: Frequency Upper: (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) DBS Space Station

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?

Yes No

30. Is the applicant an alien or the representative of an alien?

Yes No N/A

31. Is the applicant a corporation organized under the laws of any foreign government?

Yes No 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?

Yes No 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? Yes No
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.

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

Exhibit 3

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.

Exhibit 2

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

Technical Annex

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.)

Seeking modification to operate EchoStar 15 on DBS channels 3 through 32 at its existing 61.651° WL orbital location. See Exhibit 1.

Exhibit 1

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
Jennifer A. Manner

46. Title of Person Signing
Senior Vice President, Regulatory Affairs

—>

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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