

S2811 SAT-STA-20151014-00070 IB2015001922
EchoStar Satellite Operating Corporation
EchoStar 15



File # SAT-STA-20151014-00070

Call Sign S2811 Grant Date 12/10/15

(or other identifier)

Term Dates period of 180 days

From 12/10/15 To: 180 days

Approved: Stephen J. Duall

Stephen J. Duall
Chief, Satellite Policy Branch

Approved by OMB
3060-0678

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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:
Echo 15 Satellite STA Renewal

1. Applicant

Name:	EchoStar Satellite Operating Corporation	Phone Number:	301-428-5893
DBA Name:		Fax Number:	
Street:	100 Inverness Terrace East	E-Mail:	jennifer.manner@echostar.com
City:	Englewood	State:	CO
Country:	USA	Zipcode:	80112 -
Attention:	Jennifer A Manner		

EchoStar Satellite Operating Corporation
IBFS File No. SAT-STA-20151014-00070
Call Sign S2811

The application of EchoStar Satellite Operating Corporation and EchoStar Broadcasting Corporation (EchoStar) for special temporary authority, IBFS File No. SAT-STA-20151014-00070, is GRANTED. Accordingly, EchoStar is authorized, for a period of 180 days, to maintain the EchoStar 15 space station (S2811) as an in-orbit spare at the 61.65° W.L. orbital location. EchoStar is authorized to conduct telemetry, tracking, and command (TT&C) necessary to maintain EchoStar 15 at the 61.65° W.L. orbital location using the 17, 791.5 MHz and 17,793.5 MHz (Earth-to-space), and 12,692.0 MHz, 12,693.0 MHz, 12, 694.5 MHz, and 12,698.5 MHz (space-to-Earth) center frequencies. Operations under this authorization are subject to the terms, conditions, and technical specifications set forth in EchoStar's application and the Federal Communications Commission's rules, and are subject to the conditions set forth below.

1. All operations under this grant of special temporary authority shall be on an unprotected and non-harmful interference basis. EchoStar must not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
2. In the event EchoStar's operations under this grant of special temporary authority cause harmful interference to any other lawfully operating radio communication system, EchoStar must cease operations immediately upon notification of such interference and shall immediately inform the Commission, in writing, of such an event.
3. EchoStar must operate only the TT&C frequencies on EchoStar 15 to maintain EchoStar 15 at the 61.65° W.L. orbital location.
4. EchoStar must maintain the EchoStar 15 space station with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees of the 61.65° W.L. orbital location.
5. Any action taken or expense incurred as a result of operations pursuant to this grant of special temporary authority is at EchoStar's own risk.
6. Grant of this authorization does not convey to EchoStar any authority to operate a space station at the 61.65° E.L. orbital location beyond the term granted herein, nor any status in the United States satellite licensing process relative to applications for authority to operate a regularly authorized satellite at this orbital position.
7. This grant is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release.



*with conditions

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Approved: Stephen J. Duall

Stephen J. Duall
Chief, Satellite Policy Branch

2. Contact

Name:	Phuong N. Pham	Phone Number:	202-783-4141
Company:	Wilkinson Barker Knauer, LLP	Fax Number:	202-783-5851
Street:	1800 M Street, NW Suite 800N	E-Mail:	ppham@wbklaw.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036 -
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 SATSTA2015091000062 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

2016-04-29 00:00:00.0

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.)

Seeking to renew an STA for 180 days to move and operate EchoStar 15 (Call Sign S2811) as an in-orbit spare at 61.65 WL.

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
Jennifer A. Manner

11. Title of Person Signing
Vice President, Regulatory Affairs

12. Please supply any need attachments.

Attachment 1: Exhibit 1

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).

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EXHIBIT 1

REQUEST FOR RENEWAL OF SPECIAL TEMPORARY AUTHORIZATION (Response to Question 8, FCC Form 312)

Pursuant to Section 25.120(b)(3) of the Commission's rules,¹ EchoStar Satellite Operating Corporation and EchoStar Broadcasting Corporation (together with their affiliates, "EchoStar") request to renew their special temporary authorizations ("STAs"), for a 180-day period – until April 29, 2016, to continue: (i) moving and operating the EchoStar 15 satellite (Call Sign S2811) at the 61.65° W.L. orbital location as an in-orbit spare; and (iii) operating the associated earth stations (Call Signs E080007 and E080120) to provide telemetry, tracking, and control ("TT&C") communications during EchoStar 15's move and operations at 61.65° W.L.² EchoStar is requesting this STA renewal to allow it to continue moving and operating EchoStar 15 as an in-orbit spare at 61.65° W.L. in order to provide back-up capacity for DISH Network, L.L.C. ("DISH").

I. BACKGROUND

HNS Americas Comunicações Ltda. ("HNSA"), a wholly owned, indirect subsidiary of EchoStar Corporation, holds an authorization to provide Broadcast Satellite Service ("BSS") to Brazil from the nominal 45° W.L. orbital location.³ Accordingly, EchoStar has been operating the EchoStar 15 satellite in accordance with Brazil's Region 2 BSS plan for the 45° W.L. cluster, as well as in conformity with HNSA's authorization and applicable Brazilian laws, rules, and

¹ See 47 C.F.R. § 25.120(b)(3).

² See EchoStar, *Stamp Grant*, IBFS File Nos. SAT-STA-20150910-00062, SES-STA-20150910-00570, and SES-STA-20150910-00573 (granted Sept. 30, 2015) ("*EchoStar 15 September 2015 STAs*").

³ A certified translation of the Brazilian authorization is attached to EchoStar's previously granted modification application to change EchoStar 15's assigned orbital location from 44.9° W.L. to 45.1° W.L. See EchoStar, Application for Minor Modification, Exh. 1 (Term of Right of Exploration), IBFS File No. SAT-MOD-20130503-00066 (filed May 3, 2013).

regulations, while HNSA designs and constructs a new, purpose-built satellite for the orbital location, consistent with HNSA's Brazilian authorization.

In late 2012, the Commission authorized EchoStar to relocate and operate EchoStar 15 at 44.9° W.L.⁴ In June 2013, the Commission modified that authorization to permit operations on a regular basis at 45.1° W.L. instead of 44.9° W.L., in order to accommodate EchoStar's operational preference to position EchoStar 15 at 45.1° W.L. as an interim satellite during the design and construction of a new satellite.⁵

Recently, DISH, an affiliate and customer of EchoStar, has requested that a spare satellite be made available to provide backup capacity for its satellite television network, and EchoStar has determined that moving EchoStar 15 to 61.65° W.L. would be an efficient use of its satellite fleet to accommodate the request. Accordingly, EchoStar sought and obtained 30-day STAs to move and operate EchoStar 15 at 61.65° W.L. as an in-orbit spare, and to conduct associated earth station TT&C operations.⁶ EchoStar expects to commence moving EchoStar 15 from 45.1° W.L. to 61.65° W.L. on October 14, pursuant to grant of the STAs.⁷ Following EchoStar 15's expected arrival at 61.65° W.L. on approximately November 16, 2015, EchoStar intends to continue operating the satellite at that orbital location in the short term, subject to FCC grant of the requested STA renewal.⁸

⁴ See EchoStar, *Stamp Grant*, IBFS File No. SAT-STA-20121022-00185 (granted Nov. 19, 2012) (authorizing relocation to 44.9° W.L. pursuant to STA); EchoStar, *Stamp Grant*, File No. SAT-MOD-20120814-00130 (granted Dec. 13, 2012) (authorizing operations at 44.9° W.L.).

⁵ See EchoStar, *Stamp Grant*, IBFS File No. SAT-MOD-20130503-00066 (granted June 20, 2013). On May 9, 2013, the FCC granted special temporary authority to drift and operate EchoStar 15 at 45.1° W.L. See EchoStar, *Stamp Grant*, IBFS File No. SAT-STA-20130502-00065 (granted May 8, 2013).

⁶ See *EchoStar 15 September 2015 STAs*.

⁷ See *id.*

⁸ EchoStar currently has pending modification applications for regular authority to operate EchoStar 15 at 72.6° W.L. as an in-orbit spare and to conduct associated earth station TT&C operations. See EchoStar,

II. THE REQUESTED STA OPERATIONS WILL SERVE THE PUBLIC INTEREST AND WILL CAUSE NO HARMFUL INTERFERENCE

Grant of this STA request will serve the public interest by allowing EchoStar the flexibility to manage its satellite fleet efficiently and operate the EchoStar 15 satellite an in-orbit spare that will be readily available for backup service, if required. At the same time, the proposed operations will cause no harmful interference to other authorized services because EchoStar 15 will operate only on Ku BSS TT&C frequencies as an in-orbit spare, and there are no satellites operating within two degrees of 61.65° W.L. on overlapping TT&C frequencies, as discussed in the revised Technical Annex filed in support of the *EchoStar 15 September 2015 STAs*.⁹ Furthermore, as noted below, EchoStar 15 will operate at 61.65° W.L. on an unprotected and non-harmful interference basis. In the event that EchoStar 15's communications payload is required to provide backup service, EchoStar will seek appropriate authorization prior to commencing service.

III. OPERATIONAL PARAMETERS

EchoStar will move and operate EchoStar 15 at 61.65° W.L. subject to the conditions typically imposed on U.S.-licensed satellites operating in accordance with non-U.S. ITU filings, including the following:

1. All authorized operations will be on an unprotected and non-harmful interference basis (*i.e.*, EchoStar will not cause harmful interference to, and will not claim interference protection from, any other lawfully operating station).

IBFS File Nos. SAT-MOD-20150911-00063, SES-MFS-20150911-00571, and SES-MFS-20150911-00572 (filed Sept. 11, 2015). EchoStar intends to amend or supplement the pending modification applications shortly.

⁹ See Letter from Jennifer A. Manner, EchoStar, to Marlene H. Dortch, Secretary, FCC, IBFS File Nos. SAT-STA-20150910-00062, SES-STA-20150910-00570, and SES-STA-20150910-00573, Attachment A (Technical Information) (filed Sept. 17, 2015).

2. In the event of any harmful interference resulting from the authorized operations, EchoStar will cease operations immediately upon notification of such interference and will immediately inform the Commission in writing of such interference.
3. EchoStar will coordinate all TT&C operations with other potentially affected in-orbit satellite operators.
4. EchoStar will maintain the EchoStar 15 at 61.65° W.L. with an east-west longitudinal station-keeping tolerance of +/-0.05 degree.
5. EchoStar will not operate EchoStar 15's communications payload during the satellite's drift to and operations at 61.65° W.L., absent prior FCC authorization to do so.

IV. CONCLUSION

Based upon the foregoing, EchoStar urges the Commission to grant the requested 180-day STAs to allow it to continue moving and operating EchoStar 15 at 61.65° W.L. as an in-orbit spare, and to conduct associated earth station TT&C operations.