

S2439 SAT-STA-20170421-00066 IB2017001127  
EchoStar Satellite Operating Corporation  
EchoStar 8



File # SAT-STA-20170421-00066  
Call Sign S2439 Grant Date 04/25/17  
(or other identifier)  
Term Dates period of  
From 04/16/17 To: 30 days  
Approved: Stephen J. Duall

Approved by OMB  
3060-0678

Date & Time Filed: Apr 21 2017 5:40:14:450PM  
File Number: SAT-STA-20170421-00066  
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:  
STA to Operate EchoStar 8

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		

**ATTACHMENT TO GRANT**  
**EchoStar Satellite Operating Corporation**  
**IBFS File No. SAT-STA-20170421-00066**

<b>IBFS File No(s):</b>	SAT-STA-20170421-00066	<p><b>GRANTED – With Conditions</b></p>  <p><b>International Bureau Satellite Division</b></p>
<b>Licensee/Grantee:</b>	EchoStar Satellite Operating Corporation	
<b>Call Sign:</b>	S2439 <sup>1</sup>	
<b>Satellite Name:</b>	EchoStar 8	
<b>Orbital Location: (required station-keeping tolerance)</b>	See Scope of Grant	
<b>Administration:</b>	United States of America	
<b>Nature of Service:</b>	Telemetry, tracking and command (TT&C) only	
<b>Scope of Grant:</b>	Special temporary authority to conduct TT&C operations necessary to maintain control of the EchoStar 8 space station outside of the 77° W.L. orbital location prior to relocation of spacecraft to a disposal orbit <sup>2</sup>	
<b>Frequencies:</b>	TT&C center frequencies: 14.003 GHz, 14.016 GHz (Earth-to-space) 12.207 GHz, 12.206 GHz (space-to-Earth)	
<p><b>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:</b></p> <ol style="list-style-type: none"> <li>1. Operations pursuant to this special temporary authority must be on an unprotected and non-harmful interference basis, <i>i.e.</i>, the EchoStar 8 space station must not cause harmful interference to, and must not claim protection from interference caused to it by, any other lawfully operating station. In the event of any harmful interference, EchoStar must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.</li> <li>2. EchoStar must coordinate the operations of EchoStar 8 with existing geostationary space stations to ensure that no unacceptable interference results from its operations under this grant of STA.</li> <li>3. EchoStar must operate only the TT&amp;C frequencies on EchoStar 8.</li> </ol>		
<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>		

<sup>1</sup> EchoStar 8 was initially licensed in 2002 under call sign S2439. See IBFS File No. SAT-LOA-20020329-00042, SAT-AMD-20020430-00085 (granted June 20, 2002). Operations under this grant of STA will resume use of call sign S2439.

<sup>2</sup> On September 27, 2010, the Commission consented to the transfer of control of EchoStar 8 from EchoStar Corporation to QuetzSat, S. de R.L. de C.V., subject to an exchange of letters with the Comisión Federal de Telecomunicaciones of Mexico (“IFT”). IBFS File No. SAT-T/C-20090217-00026 (Call Sign S2439) (granted Sept. 17, 2010). The exchange of letters stipulates that EchoStar 8 would operate at the 77° W.L. orbital location with EchoStar performing the telemetry, tracking, and command functions for the satellite. The letter exchange further states, however, that “[o]peration of the ... EchoStar 8 satellite[] at any location other than at the 77° W.L. orbital location will be subject to licensing by the FCC, including any operations as a result of equipment failure in the satellite that results in the inability to maintain the satellite within ±0.1 degrees of its assigned position at the 77° W.L. orbital location.” *Id.* at Annex A. On April 16, 2017, EchoStar 8 experienced an anomaly that made it difficult to maintain EchoStar 8 within its station-keeping box at 77°W.L. IBFS File No. SAT-STA-20170421-00066, Legal Narrative at 1. EchoStar does not seek authority to de-orbit EchoStar 8 at this time, but solely temporary authority to conduct TT&C operations necessary to maintain control of EchoStar 8 prior to the removal of the space station to a disposal orbit in the near future.

**ATTACHMENT TO GRANT**  
EchoStar Satellite Operating Corporation  
IBFS File No. SAT-STA-20170421-00066

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).

<b>Action Date:</b>	April 25, 2017
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<b>Term Dates</b>	<b>From:</b> April 16, 2017	<b>To:</b> period of 30 days
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**Approved:**



Stephen J. Duall  
Chief, Satellite Policy Branch

2. Contact

<b>Name:</b>	Jennifer A. Manner	<b>Phone Number:</b>	(301)428-5893
<b>Company:</b>	EchoStar	<b>Fax Number:</b>	(301)428-2818
<b>Street:</b>	11717 Exploration Lane	<b>E-Mail:</b>	jennifer.manner@echostar.com
<b>City:</b>	Germantown	<b>State:</b>	MD
<b>Country:</b>	USA	<b>Zipcode:</b>	20876 -
<b>Attention:</b>		<b>Relationship:</b>	

(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?

- 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

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 special temporary authority to operate EchoStar 8 under FCC jurisdiction to facilitate orderly retirement of the satellite. See Exhibit 1.

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  
Senior Vice President, Regulatory Affairs

12. Please supply any need attachments.

Attachment 1: STA 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).

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## EXHIBIT 1

### APPLICATION FOR SPECIAL TEMPORARY AUTHORITY (Response to Space Station STA Form, Question 8)

Pursuant to 47 C.F.R. § 25.120(b), EchoStar Satellite Operating Corporation (together with its affiliates, “EchoStar”) requests 30-day special temporary authority (“STA”) to operate the EchoStar 8 satellite (Call Sign 2439) under Commission jurisdiction to facilitate orderly retirement of the satellite. As EchoStar previously informed the Satellite Division staff, the EchoStar 8 satellite experienced an anomaly on April 16, 2017. Despite attempts to resolve the anomaly, EchoStar experienced difficulties maintaining EchoStar 8 within its station-keeping box. As a result, EchoStar plans to de-orbit EchoStar 8 as early as April 24.

The Commission granted launch and operational authority for EchoStar 8 in 2002.<sup>1</sup> On September 27, 2010, the Commission consented to the transfer of control of EchoStar 8 to IFT authority, subject to an exchange of letters with the Comisión Federal de Telecomunicaciones of Mexico (“IFT”).<sup>2</sup> The exchange of letters stipulates that EchoStar 8 would operate at the 77° W.L. orbital location with EchoStar performing the telemetry, tracking, and control functions for the satellite. The letter exchange further states, however, that “[o]peration of the ... EchoStar 8 satellite[] at any location other than at the 77° W.L. orbital location will be subject to licensing by the FCC, including any operations as a result of equipment failure in the satellite that results in the inability to maintain the satellite within  $\pm 0.1$  degrees of its assigned position at the 77°

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<sup>1</sup> DISH Operating L.L.C., Application for Launch and Operating Authority, Call Sign S2439, IBFS File No. SAT-LOA-20020329-00042, SAT-AMD-20020430-00085 (granted June 20, 2002). EchoStar 8 launched on August 21, 2002.

<sup>2</sup> EchoStar Corporation, Application for Consent to Transfer Control, IBFS File No. SAT-T/C-20090217-00026 (Call Sign S2439) (granted Sept. 17, 2010).

W.L. orbital location.”<sup>3</sup> Accordingly, pursuant to this provision, EchoStar seeks an STA to operate EchoStar 8 under FCC jurisdiction. Grant of the requested STA will serve the public interest by facilitating orderly removal of the satellite to a disposal orbit.

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<sup>3</sup> See *id.*, Annex A (Exchange of Letters) at 3.