

S2931 SAT-STA-20160504-00044 IB2016001029  
DISH Operating L.L.C.  
EchoStar 18



File # SAT-STA-20160504-00044

Call Sign S2931 Grant Date 06/08/16

(or other identifier)

From see conditions Term Dates period of 30 days To: 30 days

Approved by OMB  
3060-0678

Approved: *Stephen J. Duall*

Stephen J. Duall  
Chief, Satellite Policy Branch

Date & Time Filed: May 4 2016 3:17:14:400PM  
File Number: SAT-STA-20160504-00044  
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:  
EchoStar 18 IOT STA at 67.1 WL

1. Applicant

<b>Name:</b>	DISH Operating L.L.C.	<b>Phone Number:</b>	202-463-3709
<b>DBA Name:</b>		<b>Fax Number:</b>	
<b>Street:</b>	100 Inverness Terrace East	<b>E-Mail:</b>	
<b>City:</b>	Englewood	<b>State:</b>	CO
<b>Country:</b>	USA	<b>Zipcode:</b>	80112 -
<b>Attention:</b>	Alison Minea		

**ATTACHMENT TO GRANT  
DISH Operating L.L.C.  
IBFS File No. SAT-STA-20160504-00044**

<b>IBFS File No(s):</b>	SAT-STA-20160504-00044	<p><b>GRANTED – With Conditions</b></p>  <p><b>International Bureau Satellite Division</b></p>
<b>Licensee/Grantee:</b>	DISH Operating L.L.C.	
<b>Call Sign:</b>	S2931	
<b>Satellite Name:</b>	EchoStar 18	
<b>Orbital Location: (required station-keeping tolerance)</b>	67.2° W.L. (+/- 0.05 degrees east/west)	
<b>Administration:</b>	United States of America	
<b>Nature of Service:</b>	In-Orbit Testing	
<b>Scope of Grant:</b>	Special Temporary Authority, commencing upon the arrival of the EchoStar 18 satellite at the 67.2° W.L. orbital location, to conduct in-orbit testing (IOT) and to conduct telemetry, tracking, and command (TT&C) operations necessary to maintain EchoStar 18 at 67.2° W.L. and, upon completion of IOT, to drift EchoStar 18 from the 67.2° W.L. orbital location to the assigned 61.35° W.L. orbital location.	
<b>Service Area(s):</b>	N/A	
<b>Frequencies:</b>	<p>12.2-12.7 GHz (space-to-Earth) 17.3-17.8 GHz (Earth-to-space)</p> <p>12.695 GHz, 12.696 GHz, 12.203 GHz, and 12.204 GHz (space-to-Earth) 17.303 GHz (Earth-to-space).</p> <p>DISH may also conduct command operations in the 17.791-17.796 GHz (Earth-to-space) frequency band.</p>	
<p><b>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. All operations during this grant of special temporary authority must be on an unprotected and non-harmful interference basis, <i>i.e.</i>, DISH must not cause harmful interference to, and must not claim protection from interference caused to it by, any other lawfully operating stations. In the event of harmful interference as a result of operations under this grant, DISH must cease operations immediately upon notification of such interference, and shall inform the Commission, in writing, immediately of such an event.</li> <li>2. DISH must coordinate operations of EchoStar 18 with existing geostationary space stations to ensure that no unacceptable interference results from its operations at the 67.2° W.L. orbital location or during its drift to the 61.35° W.L. orbital location.</li> <li>3. EchoStar 18’s operations at 67.2° W.L. must be limited to IOT and TT&amp;C and must not include the provision of commercial services.</li> <li>4. DISH must operate only the TT&amp;C frequencies authorized for EchoStar 18 during the space station’s drift from the 67.2° W.L. orbital location to the 61.35° W.L. orbital location.</li> <li>5. During IOT, DISH must maintain the EchoStar 18 space station with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees of the 67.2° W.L. orbital location.</li> <li>6. DISH must notify the Chief of the Satellite Division, in writing, of the arrival of the EchoStar 18 satellite at the 67.2° W.L. orbital location and the start of the STA period, within three business days of such arrival. DISH</li> </ol>		

**ATTACHMENT TO GRANT**  
**DISH Operating L.L.C.**  
**IBFS File No. SAT-STA-20160504-00044**

must also notify the Chief of the Satellite Division, in writing, of the arrival of EchoStar 18 at the 61.35° W.L. orbital location, within three business days of such arrival.

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.

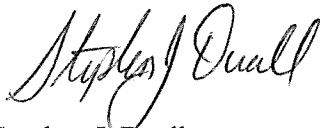
This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release.

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).

<b>Action Date:</b>	June 8, 2016
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<b>Term Dates</b>	<b>From:</b> see conditions	<b>To:</b> period of 30 days
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**Approved:**



Stephen J. Duall  
Chief, Satellite Policy Branch

2. Contact	
<b>Name:</b> Alison Minea	<b>Phone Number:</b> 202-293-0981
<b>Company:</b> DISH Operating L.L.C.	<b>Fax Number:</b>
<b>Street:</b> 100 Inverness Terrace East	<b>E-Mail:</b>
<b>City:</b> Englewood	<b>State:</b> CO
<b>Country:</b> USA	<b>Zipcode:</b> 80112 -
<b>Attention:</b>	<b>Relationship:</b> Same
(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 SATLOA2014100200105 or Submission ID	
4a. Is a fee submitted with this application?	
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114). <input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee <input type="radio"/> Other (please explain):	
4b. Fee Classification    CRY – Space Station (Geostationary)	
5. Type Request	
<input type="radio"/> Change Station Location <input type="radio"/> Extend Expiration Date <input checked="" type="radio"/> Other	
6. Temporary Orbit Location 67.1 WL	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 60 day STA for in-orbit testing of EchoStar 18 at 67.1 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  
Alison Minea

11. Title of Person Signing  
Director & Senior Counsel, Regulatory Affairs

12. Please supply any need attachments.

Attachment 1: STA Request

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).

**FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT**

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PER, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

**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.**



June 1, 2016

**By IBFS**

Marlene H. Dortch  
Secretary  
Federal Communications Commission  
445 12<sup>th</sup> Street, SW  
Washington, D.C. 20554

Re: IBFS File Nos. SAT-STA-20160504-00044, SES-STA-20160202-00110 & SES-STA-20160512-00432  
(Call Signs S2931, E070014 & E980005)

Dear Ms. Dortch:

DISH Operating L.L.C. and EchoStar Broadcasting Corporation (together with their affiliates, "DISH") submit this letter to amend the above-referenced applications for special temporary authority ("STA") to: (i) conduct in-orbit testing ("IOT") of the EchoStar 18 satellite (Call Sign S2931) at the 67.2° W.L. (in lieu of 67.1° W.L.) orbital location using the satellite's assigned direct broadcast satellite ("DBS") frequencies for 30 days (in lieu of 60 days); and (ii) operate earth stations in Gilbert, AZ, and Cheyenne, WY (Call Signs E070014 & E980005), for IOT and telemetry, tracking, and command ("TT&C") communications with EchoStar 18 at 67.2° W.L. (in lieu of 67.1° W.L.) for 30 days (in lieu of 60 days).<sup>1</sup>

Pursuant to FCC approval of the above-referenced satellite STA application,<sup>2</sup> EchoStar 18 received authority to initially locate at 137.75° W.L. after launch and orbit-raising maneuvers, before moving to its assigned orbital location at 109.9° W.L. DISH now requests authority to conduct IOT and TT&C operations, including related earth station communications, of EchoStar 18 while the satellite remains temporarily at 67.2° W.L. (in lieu of 137.75° W.L.), prior to moving to its proposed assigned orbital location at 61.35° W.L.<sup>3</sup>

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<sup>1</sup> DISH concurrently is submitting STA applications for two additional earth stations (Call Signs E150098 and EE06003) for IOT and TT&C operations with EchoStar 18.

<sup>2</sup> See IBFS File Nos. SAT-STA-20160202-00010 (granted Mar. 30, 2016).

<sup>3</sup> DISH shortly will file a modification application to change EchoStar 18's assigned orbital location from 109.9° W.L. to 61.35° W.L.



Thus, DISH anticipates the following schedule, as revised:

- (1) EchoStar 18 is scheduled for launch approximately on June 8, 2016.
- (2) After launch and orbit-raising maneuvers, EchoStar 18 will be located at 67.2° W.L., and IOT will commence for approximately 60 days.
- (3) After completion of IOT, EchoStar 18 will be moved to its proposed assigned orbital location at 61.35° W.L.

The requested testing will not cause harmful interference to other authorized co-frequency broadcasting satellite service (“BSS”) operations. The nearest co-frequency satellites are Echo 12, Echo 15, and Echo 16 at the 61.5° W.L. orbital cluster and Nimiq 5 at 72.7° W.L., which are being utilized by EchoStar for provision of BSS. The IOT test plan procedures will be such that no interference will be generated into the adjacent EchoStar services. In the unlikely event of harmful interference, DISH is prepared to take appropriate measures to eliminate the interference, including immediately terminating IOT upon receiving notice of such interference.

Grant of the requested STA will serve the public interest by allowing DISH to conduct IOT operations required to ensure that the EchoStar 18 satellite is fully operational and capable of providing service to millions of DISH subscribers.

Please direct any questions regarding this matter to the undersigned.

Sincerely,

EchoStar Broadcasting Corporation

DISH Operating L.L.C.

/s/ Jennifer A. Manner  
Jennifer A. Manner  
Senior Vice President of Regulatory Affairs

/s/ Alison A. Minea  
Alison A. Minea  
Director and Senior Counsel, Regulatory  
Affairs

cc: Stephen Duall  
Paul Blais





May 4, 2016

**By IBFS**

Marlene H. Dortch  
Secretary  
Federal Communications Commission  
445 12<sup>th</sup> Street, SW  
Washington, D.C. 20554

Re: IBFS File Nos. SAT-STA-20160202-00010, SES-STA-20160202-00110 &  
SES-STA-20160408-00341 (Call Signs S2931, E070014 & E980047)

Dear Ms. Dortch:

DISH Operating L.L.C. and EchoStar Broadcasting Corporation (together with their affiliates, "DISH") submit this letter to (i) request special temporary authority ("STA") to conduct in-orbit testing ("IOT") of the EchoStar 18 satellite (Call Sign S2931) at the 67.1° W.L. orbital location using the satellite's assigned direct broadcast satellite ("DBS") frequencies; and (ii) amend the above-referenced STA applications to operate earth stations in Gilbert, AZ, and Cheyenne, WY (Call Signs E070014 & E980047), for IOT and telemetry, tracking, and command ("TT&C") communications with EchoStar 18.<sup>1</sup>

Pursuant to FCC approval of the above-referenced satellite STA application,<sup>2</sup> EchoStar 18 received authority to initially locate at 137.75° W.L. after launch and orbit-raising maneuvers, before moving to its assigned orbital location at 109.9° W.L. DISH now requests authority to conduct IOT and TT&C operations, including related earth station communications, of EchoStar 18 while the satellite remains temporarily at 67.1° W.L. (in lieu of 137.75° W.L.), prior to moving to its proposed assigned orbital location at 61.35° W.L.<sup>3</sup>

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<sup>1</sup> DISH concurrently is amending one of the above-referenced STA applications (*see* IBFS File No. SES-STA-20160408-00341), and withdrawing STA applications for four other earth stations, which will no longer be required for IOT and TT&C operations with EchoStar 18 (*see* IBFS File Nos. SES-STA-20160408-00339, SES-STA-20160408-00340, SES-STA-20160408-00342 & SES-STA-20160408-00343).

<sup>2</sup> *See* IBFS File Nos. SAT-STA-20160202-00010 (granted Mar. 30, 2016).

<sup>3</sup> DISH shortly will file a modification application to change EchoStar 18's assigned orbital location from 109.9° W.L. to 61.35° W.L.



Thus, DISH anticipates the following schedule, as revised:

- (1) EchoStar 18 is scheduled for launch in June 2016.
- (2) After launch and orbit-raising maneuvers, EchoStar 18 will be located at 67.1° W.L., and IOT will commence for approximately 60 days.
- (3) After completion of IOT, EchoStar 18 will be moved to its proposed assigned orbital location at 61.35° W.L.

The requested testing will not cause harmful interference to other authorized co-frequency broadcasting satellite service ("BSS") operations. The nearest co-frequency satellites are Echo 12, Echo 15, and Echo 16 at the 61.5° W.L. orbital cluster and Nimiq 5 at 72.7° W.L., which are being utilized by EchoStar for provision of BSS. The IOT test plan procedures will be such that no interference will be generated into the adjacent EchoStar services. In the unlikely event of harmful interference, DISH is prepared to take appropriate measures to eliminate the interference, including immediately terminating IOT upon receiving notice of such interference.

Grant of the requested STA will serve the public interest by allowing DISH to conduct IOT operations required to ensure that the EchoStar 18 satellite is fully operational and capable of providing service to millions of DISH subscribers.

Please direct any questions regarding this matter to the undersigned.

Sincerely,

EchoStar Broadcasting Corporation

DISH Operating L.L.C.

/s/ Jennifer A. Manner  
Jennifer A. Manner  
Senior Vice President of Regulatory Affairs

/s/ Alison A. Minea  
Alison A. Minea  
Director and Senior Counsel, Regulatory  
Affairs

cc: Stephen Duall  
Paul Blais