

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
E150098 STA for EchoStar 23

1. Applicant

Name: EchoStar Broadcasting Corporation **Phone Number:** 301-428-5893
DBA Name: **Fax Number:**
Street: 100 Inverness Terrace East **E-Mail:**
City: Englewood **State:** CO
Country: USA **Zipcode:** 80112
Attention: Jennifer A Manner



File # SES-STA-20160427-00382
E150098
Call Sign Grant Date 8-17-16
(or other identifier)
Term Dates
From: 9-1-16 To: 2-28-17
Approved: *Jennifer A Manner*

Applicant: EchoStar Broadcasting Corporation
Call Sign: E150098
File No.: SES-STA-20160427-00382
Special Temporary Authority (STA)

EchoStar Broadcasting Corporation (EBC) is granted 180 days special temporary authority, under the following conditions to use its earth station, Call Sign E150098, located in Summerset, SD, to perform in-orbit testing ("IOT") and/or telemetry, tracking, and command ("TT&C) operations with EchoStar 23 satellite at orbital locations 86.4°W.L. and 67.1° W.L. using frequencies: 17300 – 17310 MHz, 17791 MHz, and 17305 MHz (Earth-to-space), and 12200 – 12210 MHz, 12207 MHz, and 12208 MHz (space-to-Earth), with the following conditions:

1. Grant of this STA is without prejudice to any determination that the Commission may make regarding pending or future EchoStar Broadcasting Corporation applications.
2. All operations under this grant of STA shall be on an unprotected and non-harmful interference basis. EchoStar Broadcasting Corporation E150098 shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
3. In the event of any harmful interference as a result of operations under this grant of STA, EchoStar Broadcasting Corporation shall cease operations immediately upon notification of such interference and shall immediately inform the Commission, in writing, of such an event.
4. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at EchoStar Broadcasting Corporation's risk.

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.



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Call Sign E150098 Grant Date 8-17-16
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Term Dates
From: 9-1-16 To: 2-28-17
Approved: [Signature]

2. Contact			
Name:	Jennifer A. Manner	Phone Number:	301-428-5893
Company:	EchoStar Broadcasting Corporation	Fax Number:	
Street:	11717 Exploration Lane	E-Mail:	
City:	Germentown	State:	MD
Country:	USA	Zipcode:	20876 -
Attention:		Relationship:	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 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 CGX – Fixed Satellite Transmit/Receive Earth Station			
5. Type Request			
<input type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other			
6. Requested Use Prior Date			

7. City/Summerset	8. Latitude (dd mm ss.s h) 44 11 14.2 N
9. State SD	10. Longitude (dd mm ss.s h) 103 20 7.5 W
11. Please supply any need attachments. Attachment 1: Exhibit 1 Attachment 2: Attachment 3:	
12. 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.) <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Seeking 180-day STA for in-orbit testing and TT&C for EchoStar 23.</div>	
13. 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 <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Jennifer A. Manner	15. 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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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.

EXHIBIT 1

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

Pursuant to Section 25.120(b)(3) of the Commission's rules,¹ EchoStar Broadcasting Corporation (together with its affiliates, "EchoStar") requests special temporary authority ("STA") for 180 days to operate two earth stations in Cheyenne, WY (Call Sign E980047) and Summerset, SD (Call Sign E150098) for in-orbit testing ("IOT") and/or telemetry, tracking, and command ("TT&C") operations of the EchoStar 23 satellite during its temporary locations at 86.4° W.L. and 67.1° W.L. EchoStar further requests that the STA commence upon EchoStar 23's arrival at 67.1° W.L. in order to accommodate the timing uncertainties ordinarily associated with launching and positioning a satellite in a specific orbit.

EchoStar 23 is a Ku-band Broadcasting-Satellite Service ("BSS") satellite authorized under Brazilian authority for operations at the 45° W.L. orbital location by EchoStar 45, an EchoStar affiliate. The satellite will provide new, competitive direct-to-home ("DTH") television service to Brazil from its assigned orbital location.

EchoStar seeks to conduct IOT prior to moving the satellite to its assigned orbital location at 45° W.L. Specifically, EchoStar anticipates the following schedule:

- (1) EchoStar 23 is scheduled for launch during the period from September 1 through November 30, 2016.
- (2) After launch and orbit-raising maneuvers, EchoStar 23 will be temporarily located 67.1° W.L., where IOT will commence for approximately 30 days. The satellite will then be moved to 86.4° W.L. for 90 days.
- (3) Following the temporary operations at 86.4° W.L. EchoStar 23 will be moved to its assigned orbital location at 45° W.L.

¹ See 47 C.F.R. § 25.120(b)(3).

The requested testing will not cause harmful interference to other authorized co-frequency BSS operations. The nearest co-frequency satellites are Echo 12/Echo 15/Echo 16 at 61.5 ° W.L. and Nimiq 5 at 72.7 ° W.L., which are being utilized by EchoStar for provision of BSS services. 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, EchoStar 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 EchoStar to conduct IOT required to ensure that the EchoStar 23 satellite is fully operational and capable of providing new, competitive DTH television service to subscribers in Brazil and other Latin American countries from its assigned orbital location.