

E980005 SES-STA-20161122-00902 IB2016002528  
EchoStar Broadcasting Corporation

Approved by OMB  
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
E980005 - Cheyenne - 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-20161122-00902

Call Sign E98005 Grant Date 1/7/2017  
(or other identifier)

Term Dates  
From 1/8/2017 To 7/6/2017

Approved: [Signature]

Applicant: EchoStar Broadcasting Corporation  
Call Sign: E980005  
File No.: SES-STA-20161122-00902  
Special Temporary Authority (STA)

EchoStar Broadcasting Corporation (EchoStar) is granted special temporary authority (STA) for 180 days, beginning January 08, 2017, to operate its Cheyenne, WY earth station to: (1) conduct telemetry, tracking, and command ("TT&C") communications with EchoStar 23 satellite (S2912) during its temporary location at 86.4°W.L. orbital location on the 12.200 – 12.210 GHz, (space-to-Earth) and 17.300 – 17.310 GHz and center frequency 17.791 GHz (Earth-to-space) frequency bands; (2) conduct in-orbit testing ("IOT") and TT&C communications with EchoStar 23 at its assigned orbital location of 44.9° W.L. orbital location on 12.200 – 12.700 GHz, (space-to-Earth) and 17.300 – 17.800 GHz (Earth-to-space) frequency bands. Operations under this authorization must be in accordance with the terms, conditions, and technical specifications set forth in the EchoStar 23 satellite (S2912) authorization and the Federal Communications Commission's rules, and are subject to the following conditions:

1. Grant of this STA is without prejudice to any determination that the Commission may make regarding pending or future applications.
2. All operations under this grant of STA shall be on an unprotected and noninterference basis and EchoStar is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country.
3. In the event of any harmful interference as a result of operations under this grant of STA, EchoStar 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.
5. This grant is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.26 1, and is effective upon release.



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Call Sign E980005 Grant Date 1/7/2017  
(or other identifier)

Term Dates

From 1/8/2017 To: 7/6/2017

Approved: Paul E. Blair

**2. Contact**

**Name:** Jennifer A. Manner      **Phone Number:** 301-428-5893  
**Company:** EchoStar Broadcasting Corporation      **Fax Number:**  
**Street:** 11717 Exploration Lane      **E-Mail:**  
**City:** Germantown      **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?

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    CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

Use Prior to Grant       Change Station Location       Other

6. Requested Use Prior Date  
01/08/2017

7. City Cheyenne	8. Latitude (dd mm ss.s h) 41 7 56.4 N
9. State WY	10. Longitude (dd mm ss.s h) 104 44 10.4 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; min-height: 100px;">Seeking 180-day STA for in-orbit testing and TT&amp;C with EchoStar 23. See Exhibit 1.</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 &quot;party to the application&quot;; for these purposes. <p style="text-align: center;">Yes <input checked="" type="radio"/> No <input type="radio"/></p>	
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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## EXHIBIT 1

### REQUEST FOR SPECIAL TEMPORARY AUTHORITY

Pursuant to Section 25.120(b) of the Commission's rules,<sup>1</sup> EchoStar Broadcasting Corporation ("EchoStar") requests special temporary authority ("STA") for 180 days to operate three earth stations in Cheyenne, WY, Blackhawk, SD, and Gilbert, AZ (Call Signs E980005, E020248 & E070014) for (i) telemetry, tracking, and command ("TT&C") communications with the EchoStar 23 satellite during its temporary location at 86.4° W.L.; and (ii) in-orbit testing ("IOT") and TT&C communications with EchoStar 23 at its assigned orbital location of 44.9° W.L.<sup>2</sup> EchoStar further requests that the STA commence upon EchoStar 23's arrival at 86.4° 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 planned satellite authorized under Brazilian authority for Ku-band Broadcasting-Satellite Service ("BSS") operations at the 44.9° 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.

- (1) EchoStar 23 is scheduled for launch on approximately January 8-9, 2017.
- (2) After launch and orbit-raising maneuvers, EchoStar 23 will be temporarily located at 86.4° W.L. for approximately 90 days.

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<sup>1</sup> See 47 C.F.R. § 25.120(b).

<sup>2</sup> EchoStar concurrently is filing modification applications for the subject earth stations to add EchoStar 23 as a point of communications for TT&C and feeder uplink communications only. EchoStar also has a pending application seeking similar license modification for a fourth earth station (Call Sign E150098). See EchoStar, Applications for Modification, File No. SES-MFS-20160919-00792 (Sept. 19, 2016) ("E150098 Modification Application").

- (3) Following temporary operations at 86.4° W.L., EchoStar 23 will be moved to its assigned orbital location at 44.9° W.L, where IOT will commence for approximately 30 days.<sup>3</sup>

For TT&C and IOT communications with EchoStar 23, the subject earth stations – specifically, Call Signs E980005 (Antenna ID 1), E020248 (Antenna IDs BH8 and BH13), and E070014 (Antenna ID GFMA) – will operate on the following frequencies, consistent with the frequency bands and other technical parameters specified under their existing licenses:

- 17.300 – 17.310 GHz and 17.791 GHz for TT&C uplinks;
- 12.200 – 12.210 GHz for TT&C downlinks;
- 17.300 – 17.800 GHz for IOT uplinks; and
- 12.200 – 12.700 GHz for IOT downlinks.

The proposed testing will not cause harmful interference to other authorized co-frequency BSS operations, as demonstrated in the Technical Annex submitted with the pending E150098 Modification Application. 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.

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<sup>3</sup> EchoStar is authorized under STA to operate a fourth earth station (Call Sign E150098) for IOT and TT&C communications with EchoStar 23. *See* EchoStar, STA Stamp Grant, File No. SES-STA-20160427-00382 (Aug. 17, 2016).