

SES-STA-20130517-00394
E980118

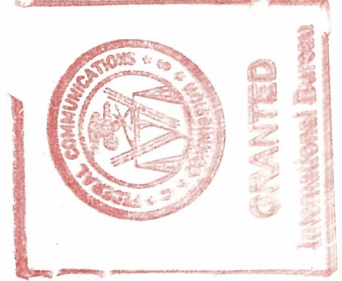
Approved by OMB
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for 10-day STA from June 18, 2013 to June 27, 2013 to use Call Sign **E980118** to test DBSD G-1's C-band TT&C subsystem

1. Applicant

Name: EchoStar Broadcasting Corporation **Phone Number:** 202-293-0981
DBA Name:
Street: 100 Inverness Terrace East
City: Englewood **State:** CO
Country: USA **Zipcode:** 80112
Attention:


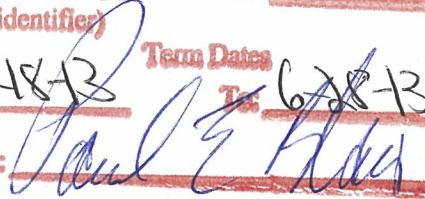


File # SES-STA-20130517-00394
E980118 **Grant Date:** 6-6-13
Call Sign (or other identifier):
Term Dates: From 6-18-13 To: 6-28-13
Approved: [Signature]

Applicant: EchoStar Broadcasting Corporation
Call Sign: E980118
File No.: SES-STA-20130517-00394
Special Temporary Authority (STA)

EchoStar Broadcasting Corporation is granted, under the following conditions, STA to use its Gilbert, Wyoming C-band earth station, Call Sign E980118, to perform command and range test of emergency TT &C operations with DBSD-G1 (Call Sign S2651) satellite at orbital location 92.85° W.L using frequencies: 6424.5 MHz and 5925.5 MHz (Earth-to-space) and 3701.5 MHz and 4198.5 MHz (space-to-Earth).

All operations shall be on an unprotected and non-harmful interference basis, EchoStar Broadcasting Corporation, E980118, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.

 GRANTED International Bureau	File # SES-STA-20130517-00394
	Call Sign E980118
	Grant Date 6-6-13
	Term Dates
	From 6-18-13 To 6-18-13
Approved: 	

2. Contact

Name: Pantelis Michalopoulos **Phone Number:** 202-429-6494
Company: Steptoe & Johnson LLP **Fax Number:** 202-429-3902
Street: 1330 Connecticut Ave. NW **E-Mail:** pmichalopoulos@steptoe.com
City: Washington **State:** DC
Country: USA **Zipcode:** 20036 -1795
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 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

7. City/Cheyenne

8. Latitude
(dd mm ss.s h) 41 7 55.7 N

9. State WY	10. Longitude (dd mm ss.s h) 104 44 11.5 W
11. Please supply any need attachments. Attachment 1: Narrative 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.) EchoStar Broadcasting Corporation requests 10-day special temporary authority from June 18, 2013 through June 27, 2013 to test the DBSD G-1 (Call Sign S2651) C-band TT&C subsystem using Call Sign E980118. Specifically, EchoStar requests STA to conduct its testing using the following frequencies	
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 Dean A. Manson	15. Title of Person Signing General Counsel, EchoStar Broadcasting Corporation
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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**Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554**

In the Matter of:

EchoStar Broadcasting Corporation

Application for Special Temporary
Authority to Test Communications with the
DBSD G-1 Satellite Using Two Earth
Stations (Call Signs E980118 and E020233)
over C-Band Frequencies

File No. SES-STA-2013 _____ - _____
Call Sign E980118

File No. SES-STA-2013 _____ - _____
Call Sign E020233

APPLICATION FOR SPECIAL TEMPORARY AUTHORITY

I. INTRODUCTION

EchoStar Broadcasting Corporation (“EBC,” and with its affiliates, “EchoStar”) hereby requests 10-day special temporary authority (“STA”) to perform testing for emergency telemetry, tracking, and control (“TT&C”) operations with the New DBSD Satellite Services G.P. (“DBSD”) G-1 satellite (Call Sign S2651) over C-band frequencies using two earth stations (Call Signs E980118 and E020233). Specifically, EchoStar requests STA to conduct its testing using the following frequencies: 6424.5 and 5925.5 MHz (uplink to satellite); and 3701.5 and 4198.5 MHz (downlink from satellite). EchoStar also requests, to the extent required, a temporary waiver of Section 25.202(g) of the Federal Communications Commission’s (“Commission”) rules for the duration of the STA. EchoStar asks that this authorization commence on June 18, 2013 and run through June 27, 2013.

EchoStar has pending modification requests for these two earth stations to permit C-band TT&C operations with the DBSD G-1 satellite under certain circumstances pursuant to its coordination agreement with Intelsat License LLC (“Intelsat”), which is authorized to operate at

the nominal 93° W.L. orbital location.¹ The tests undertaken pursuant to the requested STA will enable EchoStar to ensure that these emergency TT&C frequencies remain available should they be needed. This is the second year that EchoStar has requested STA to perform annual testing of these C-band frequencies with DBSD G-1; EchoStar asked for, and received, similar authority in July 2012 for these same earth stations.²

II. THE REQUESTED SPECIAL TEMPORARY AUTHORITY IS IN THE PUBLIC INTEREST

The Commission has a long-standing policy of granting STA where such authorization will serve the public interest, convenience and necessity, and does not cause harmful interference.³ The requested operations meet these tests.

DBSD G-1 is a UK-flagged satellite operating at the 92.85° W.L. orbital location, authorized under a Letter of Intent (“LOI”) to provide Mobile-Satellite Services (“MSS”) using the 2000-2010 and 2190-2200 MHz band, feeder-link transmissions using 18.55-18.8/19.7-20.2 GHz (Earth-to-space) and 29.25-30.0 GHz (space-to-Earth) bands, and primary TT&C transmissions at 29.9955 and 29.9995 GHz (command) and 20.1965 and 20.1985 GHz (telemetry).⁴ On March 2, 2012, the Commission approved the transfer of control over DBSD’s authorizations, including the LOI authorization for the G-1 satellite, to DISH Network

¹ See Narrative, File Nos. SES-MFS-20120612-00507, Call Sign E980118 (filed June 12, 2012); SES-MFS-20120612-00506, Call Sign E020233 (filed June 12, 2012); *see also New ICO Satellite Services G.P.*, 21 FCC Rcd. 14612 ¶ 15 n.43 (2006).

² Stamp Grant, File Nos. SES-STA-20120713-00651, Call Sign E980118 (July 20, 2012); SES-STA-20120713-00652, Call Sign E020233 (July 20, 2012).

³ *See, e.g., Columbia Communications Corp., Order*, 11 FCC Rcd. 8639, 8640 (1996); *American Telephone & Telegraph Co., Order*, 8 FCC Rcd. 8742 (1993); *Newcomb Communications, Inc., Order and Authorization*, 8 FCC Rcd. 3631, 3633 (1993).

⁴ *See Stamp Grant*, File Nos. SAT-MOD-20070919-00129, Call Sign S2651 (Apr. 2, 2008); SAT-AMD-20071129-00166, Call Sign S2651 (Apr. 2, 2008).

Corporation (“DISH”).⁵ EchoStar provides technical and operational support for the G-1 satellite.

The requested STA serves the public interest because it will allow EchoStar to ensure that it will be able to maintain control over DBSD G-1 in the event of an emergency affecting the satellite’s primary TT&C frequencies, decreasing the chance of loss of service from the G-1 satellite itself and from satellites operating nearby.

Further, grant of this application will not cause harmful interference to any other lawful user of spectrum. The DBSD G-1 satellite’s C-band TT&C capabilities allow it to independently select frequencies in 250 kHz increments over 5 MHz bandwidth at the band edges, and can be changed in orbit if required, allowing flexibility to coordinate any temporary use of the C-band frequencies. Moreover, an agreement is in place with Intelsat, which has C-band authorization at the nominal 93° W.L. orbital location, to permit use of the frequencies requested herein when certain circumstances exist,⁶ and the particular testing operations at issue here are being conducted in coordination with Intelsat.

III. THE REQUESTED WAIVER IS IN THE PUBLIC INTEREST

Section 25.202(g) of the Commission’s rules requires operators of “U.S. domestic satellites” to conduct their TT&C functions in the same frequency bands in which they are providing service, and using frequencies designed to minimize interference into other satellite

⁵ See DBSD North America, Inc., Debtor-in-Possession; New DBSD Satellite Services G.P., Debtor-in-Possession; Pendrell Corporation, Transferor; and TerreStar License Inc., Debtor-in-Possession; Assignor, and DISH Network Corporation, Transferee; and Gamma Acquisition L.L.C.; Assignee Applications for Consent to Assign/Transfer Control of Licenses and Authorizations of New DBSD Satellite Services G.P., Debtor-in-Possession and TerreStar License Inc., Debtor-in-Possession, IB Docket No. 11-150, *Order*, DA 12-332 (rel. Mar. 2, 2012).

⁶ See *New ICO Satellite Services G.P.*, 21 FCC Rcd. 14612 ¶ 15 n.43 (2006).

networks.⁷ The International Bureau has deferred requests from DBSD to use the C-band for TT&C until DBSD presented the issue “in the context of an earth station application that seeks authority to use C-band” to communicate with the DBSD G-1 satellite—the very subject of this STA and waiver request.⁸

The Commission may waive its rules for good cause shown, particularly where strict compliance with a rule is inconsistent with the public interest when taking “into account considerations of hardship, equity, or more effective implementation of overall policy.”⁹ Such a waiver is in the public interest here. EchoStar is requesting authorization to conduct testing of DBSD G-1’s TT&C subsystem over the C-band in order to decrease the chance of loss of service from the G-1 satellite itself and from satellites operating nearby in the unlikely event that DBSD G-1’s primary TT&C capabilities are compromised. Thus, waiving Section 25.202(g) for this testing would decrease the risk of losing service from DBSD.¹⁰

IV. OPERATIONAL PARAMETERS

EchoStar will conduct operations pursuant to the requested STA subject to the following conditions:

- C-band operations shall be on a non-harmful interference basis, meaning that C-band communications with DBSD G-1 shall not cause harmful interference to, and shall not claim protections from interference caused to it by, any other lawfully operating satellites.

⁷ 47 C.F.R. § 25.202(g).

⁸ See Stamp Grant, File Nos. SAT-MOD-20070919-00129, Call Sign S2651 (Apr. 2, 2008); SAT-AMD-20071129-00166 ¶ 3, Call Sign S2651 (Apr. 2, 2008).

⁹ 47 C.F.R. § 1.3; *WAIT Radio v. FCC*, 418 F.2d 1153, 1159 (D.C. Cir. 1969).

¹⁰ The Commission has allowed out-of-band TT&C where such operations are coordinated with co-frequency spectrum users. See, e.g., *Astrolink Int’l LLC*, 15 FCC Rcd. 23738 ¶ 9 (2000).

