

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
EchoStar Broadcasting Corporation seeks Special Temporary Authority to operate its earth station, E080120 with the EchoStar 16 satellite during launch and testing of the satellite.

1. Applicant

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

SES-STA-20120614-00508
E080120
Call Sign (or other identifier) GrandStar 11-20-12
Tom Baker
From 11-20-12
Approved
GRANTED
11-20-12

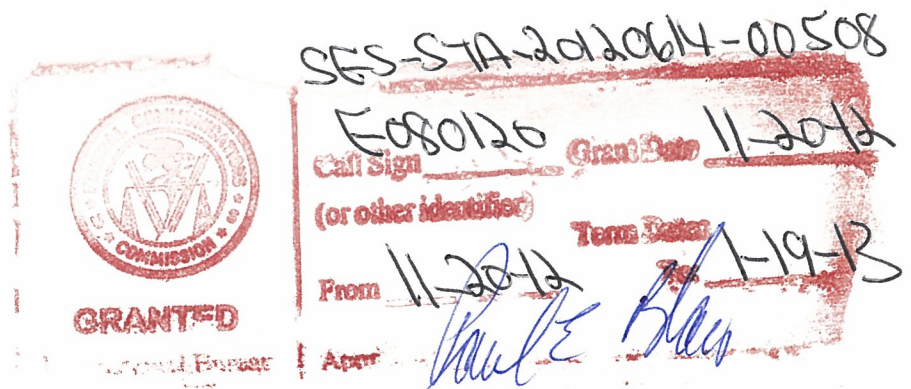
Conditions:

Applicant: ECHOSTAR HOLDING PURCHASING CORPORATION (EchoStar)
File Number: SES-STA-20120614-00508
Call Sign: E080120

EchoStar is authorized, for a period of 60 days, (1) to perform telemetry, tracking, and control ("TT&C") operations while raising and maneuvering the Direct Broadcast Satellite ("DBS"), EchoStar 16, to the 67.1° W.L. orbital location; (2) to test the satellite at that location in the 12.2-12.7 and 17.3-17.8 GHz bands; and (3) upon completion of in-orbit testing, to provide TT&C during the relocation of EchoStar 16 to 61.5° W.L. EchoStar is also authorized to conduct tracking, telemetry and command (TT &C) operations using the following center frequencies during IOT at the 67.1° W .L. orbital location and during the drift of EchoStar 16 to its authorized location of 61.5° W .L.: 17.307 GHz and 17.7955 GHz (Earth-to-space); and 12.694 GHz, 12.695 GHz, 12.6965 GHz, and 12.6975 GHz (space-to-Earth). Operations under this authorization are subject to the terms, conditions, and technical specifications set forth in EchoStar's Application and the Federal Communications Commission's rules, and are subject to the conditions set forth below.

Conditions:

1. All operations under this grant of special temporary authority shall be on an unprotected and non-harmful interference basis. EchoStar shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
2. In the event of any harmful interference as a result of operations under this grant of special temporary authority, EchoStar shall cease operations immediately upon notification of such interference and shall immediately inform the Commission, in writing, of such an event.
3. The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path. All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs.
4. Operations while at 67.1° W.L. shall be limited to IOT and shall not include the provision of commercial services.
5. 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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|---|--------------------------|----------------------|-----------------------------|
| 2. Contact | | | |
| Name: | Pantelis Michalopoulos | Phone Number: | 202−429−6494 |
| Company: | Step toe & Johnson LLP | Fax Number: | |
| Street: | 1330 Connecticut Ave. NW | E-Mail: | pmichalopoulos@step toe.com |
| City: | Washington | State: | DC |
| Country: | USA | Zipcode: | 20036 - |
| 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? | | | |
| <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 Cheyenne | | | |
| 8. Latitude (dd mm ss.s h) 41 7 54.4 N | | | |

| | |
|---|--|
| 9. State WY | 10. Longitude (dd mm ss.s h) 104 44 13.0 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 seeks Special Temporary Authority to operate its transmit/receive earth station, E080120, to provide TT&C while raising and maneuvering and to conduct in#8722;orbit testing with, EchoStar, at 67.1 W.L., and to provide TT&C during its relocation to 61.5 W.L. See attached narrative. | |
| 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 Alison Minea | 15. Title of Person Signing Corporate Counsel |
| 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)
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)
)
 ECHOSTAR BROADCASTING CORPORATION) File No. SES-STA-2012____ - ____
) Call Sign E080120
 Application for Special Temporary Authority)
 to Operate Its Transmit/Receive and)
 Feeder Link Earth Stations to Raise and)
 Test the EchoStar 16 Satellite at 67.1° W.L.,)
 and Subsequently to Move EchoStar 16 to)
 61.5° W.L.)
)
)

APPLICATION FOR SPECIAL TEMPORARY AUTHORITY

I. INTRODUCTION AND SUMMARY

EchoStar Broadcasting Corporation (“EBC”) respectfully requests 60-day Special Temporary Authority (“STA”), commencing on or about August 20, 2012, to permit EBC to operate one of its transmit/receive earth stations (Call Sign E080120) (1) to perform telemetry, tracking, and control (“TT&C”) operations while raising and maneuvering the Direct Broadcast Satellite (“DBS”), EchoStar 16, to the 67.1° W.L. orbital location; (2) to test the satellite at that location in the 12.2-12.7 and 17.3-17.8 GHz bands; and (3) upon completion of in-orbit testing, to provide TT&C during the relocation of EchoStar 16 to 61.5° W.L. EBC’s sister company, EchoStar Satellite Operating Corporation (“ESOC”), has already filed an application to launch EchoStar 16 and operate it at the 61.5° W.L. orbital location,¹ and an STA application (1) to raise EchoStar 16 to 67.1° W.L. and test it at that location and (2) to relocate EchoStar 16 to 61.5°

¹ See File No. SAT-LOA-20110902-00172, Call Sign S2844 (filed Sept. 2, 2011).

W.L. upon the completion of testing.² EBC has already filed STA applications for orbit raising and testing for two other earth stations (Call Signs E070014 and E980005).³

Testing EchoStar 16 and conducting TT&C operations during orbit raising and maneuvers at 67.1° W.L. and during its relocation to 61.5° W.L. will ensure that EchoStar 16 is fully operational and ready to provide service once it arrives at 61.5° W.L. The proposed maneuvers and testing will not adversely affect the operations of any other spacecraft or other authorized spectrum users. EchoStar 16 is scheduled to launch around August 20, 2012, and EBC requests action on this request by that date.

II. GRANT OF THIS APPLICATION IS IN THE PUBLIC INTEREST

The Federal Communications Commission (“Commission”) has a long-standing policy of granting STA where such authorization will not cause harmful interference and will serve the public interest, convenience, and necessity.⁴ The requested operations meet both of these tests. The Commission has also recognized the benefits to the public interest, convenience, and necessity of granting STA to allow in-orbit testing at locations different from those authorized, subject to coordination with neighboring satellites.⁵ Moreover, as the Commission has

² See File No. SAT-STA-20120315-00049, Call Sign S2844 (filed Mar. 15, 2012).

³ See File Nos. SES-STA-20120316-00274, SES-STA-20120316-00275, Call Signs E070014 and E980005 (filed Mar. 16, 2012).

⁴ See, e.g., Newcomb Communications, Inc., *Order and Authorization*, 8 FCC Rcd. 3631, 3633 (1993); Columbia Communications Corp., *Order*, 11 FCC Rcd. 8639, 8640 (1996); American Telephone & Telegraph Co., *Order*, 8 FCC Rcd. 8742 (1993).

⁵ See INTELSAT LLC, *Order and Authorization*, 16 FCC Rcd. 16208 ¶ 8 (2001) (“[A] grant of Special Temporary Authority to conduct in-orbit testing . . . at the 58.5° E.L. orbital location, instead of [the licensee’s] authorized 62° E.L. location, will serve the public interest. The Commission typically allows licensees to conduct in-orbit testing at orbit locations different from those authorized, subject to coordination with affected adjacent satellite operators”); see also EchoStar Satellite Corp., *Order and Authorization*, 15 FCC Rcd. 12609 (2000).

previously found, deployment of new DBS capacity serves the public interest, convenience, and necessity.⁶

Consistent with the Commission's well-settled precedent, grant of this STA request will serve the public interest by ensuring that the new DBS satellite is fully operational before commencing service. Raising EchoStar 16 to 67.1° W.L., testing it at that location, and then relocating it to 61.5° W.L. will not cause harmful interference to any other spacecraft or authorized user of the spectrum. Testing of EchoStar 16 at 67.1° W.L. has been coordinated and will follow guidelines to avoid interference with nearby DBS satellites. While the satellite is raised and moved to 67.1° W.L., and again while it is moved to 61.5° W.L., all transponders (other than the TT&C beacons) on the satellite will be turned off.

While the satellite is at 67.1° W.L., EBC will ensure that operations do not cause harmful interference to any nearby satellite. EBC's affiliate, ESOC, controls EchoStar 3 at 61.8° W.L.,⁷ EchoStar 12 at 61.35° W.L., and EchoStar 15 at 61.65° W.L.,⁸ and EBC will ensure that operations under this STA do not interfere with the operations of those satellites. Additionally, pursuant to an agreement between SES Latin America S.A. and SES S.A. (collectively, "SES") and EBC's affiliate, QuetzSat, S. de R.L. de C.V., SES currently controls QuetzSat-1 at 67.1° W.L.; EBC, however, expects that it will coordinate with SES for QuetzSat-1 to be moved from 67.1° W.L. before EchoStar 16 is due to arrive at that location.⁹ Finally, Nimiq 5 at 72.7° W.L., licensed to Telesat Canada Ltd., is the only other DBS satellite operating within six degrees of

⁶ See, e.g., DIRECTV Enterprises, *Order and Authorization*, 14 FCC Rcd. 13159 (1999).

⁷ EchoStar 3 is operating at 61.8° W.L. pursuant to 180-day STA. See Stamp Grant, File No. SAT-STA-20120424-00074 (granted June 12, 2012).

⁸ EchoStar expects that EchoStar 15 will be at 61.65° W.L. when EchoStar 16 is launched. See Stamp Grant, File No. SAT-STA-20120531-00091 (granted June 12, 2012).

⁹ See File Nos. SES-STA-20111021-01250, SES-STA-20111021-01251, Call Signs E980005 and E070014 (filed Sept. 21, 2011).

the testing location. The entire broadcast satellite service capacity of Nimiq 5 is leased to ESOC, and EBC will ensure that operations under this STA do not interfere with Nimiq 5's operations.

The requested STA also serves the public interest, as it will allow the EchoStar 16 satellite to be safely maneuvered to, and tested at, the 67.1° W.L. orbital location, and then again moved to its permanent home at 61.5° W.L. The in-orbit testing will ensure proper operation of the satellite prior to bringing the satellite into service, thereby minimizing the potential for future service interruptions. Upon its relocation to 61.5° W.L., EchoStar 16 will be available to provide DBS service to the public.

III. OPERATING PARAMETERS

During the orbital raising of EchoStar 16 at 67.1° W.L. and during the move to 61.5° W.L., all transponders other than the TT&C transponders will be switched off, and EBC will operate its earth stations subject to the following conditions:

1. No harmful interference will be caused to any lawfully operating satellite network or radio communication system, and EBC's operations will cease immediately upon notification of harmful interference. Furthermore, EBC shall notify the Commission immediately, in writing, of any such event.
2. EBC will accept interference from any lawfully operating satellite network or radio communication system.

In addition, during in-orbit testing, EBC will operate its earth stations subject to the following conditions:

1. EBC will not cause harmful interference to, and will not claim protection from interference caused by, any other lawfully operating satellites or radiocommunications systems.
2. Upon notification of any harmful interference, EBC will cease its test operations immediately. In addition, EBC will inform the Commission in writing that it has received such a notification.

IV. SECTION 304 WAIVER

In accordance with Section 304 of the Communications Act of 1934, 47 U.S.C. § 304, EBC hereby waives any claim to the use of any particular frequency or of the electromagnetic spectrum because of the previous use of the same, whether by license or otherwise.

V. CONCLUSION

For the foregoing reasons, EBC respectfully requests the grant of a 60-day STA, commencing on or about August 20, 2012, to operate one of its transmit/receive earth stations (Call Sign E080120) to launch and raise EchoStar 16 to, and conduct testing at, 67.1° W.L., and then to relocate EchoStar 16 to 61.5° W.L.

Respectfully submitted,

/s/

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June 14, 2012