

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
STA Request to Test Gateway in Bismarck, ND

1. Applicant

Name:	HNS License Sub, LLC	Phone Number:	301-428-5893
DBA Name:		Fax Number:	301-428-2818
Street:	11717 Exploration Lane	E-Mail:	jennifer.manner@echostar.com
City:	Germantown	State:	MD
Country:	USA	Zipcode:	20876
Attention:	Jennifer Manner		



File # SES-STA-20150917-00591  
E150082  
Call Sign \_\_\_\_\_ Grant Date 11-13-15  
(or other identifier)  
Term Dates  
From: 11-15-15 To: 12-15-15  
Approved: Paul E. Blawie

Applicant: HNS License Sub, LLC  
Call Sign: E150082  
File No.: SES-STA-20150917-00591  
Special Temporary Authority (STA)



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(or other identifier)  
Term Dates  
From: 11-15-15 To: 12-15-15  
Approved: Paul E. Hayes

HNS License Sub, LLC (HNS) is granted special temporary authority for 30 days beginning November 15, 2015, to test its Bismarck, ND, fixed earth station, E150082, with the AMC-15 satellite (call sign S2180) at the 105° W. L. orbital location. HNS may also test E150082 with: the EchoStar XVII (Jupiter 1) satellite (call sign S2753) at 107.1° W.L. orbital location; the AMC-16 satellite (call sign S2181) at 85° W.L. orbital location; the EchoStar IX satellite (call sign S2179) at 121° W.L. orbital location; the Telstar 8(IA-8) S2205 at 89°W.L. orbital location; and ViaSat-1 satellite (call sign S2747) at 115° W.L. orbital location as required. Test operations are authorized under the following conditions:

1. Operations are restricted to center frequency 29.6875 GHz (Earth-to-space) and the 19.7–20.2 GHz (space-to-Earth) frequency band.
2. All operations under this grant of STA shall be on an unprotected and non-harmful interference basis.
3. EIRP density may not exceed 71.2 dBW/4kHz.
4. In the event of any harmful interference during HNS shall cease operations immediately upon notification of such interference, and shall immediately inform the Commission, in writing, of such an event.
5. Grant of this STA is without prejudice to any determination that the Commission may make regarding pending or future HNS License Sub, LLC applications.
6. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at HNS License Sub, LLC's risk.

This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately. Petitions for reconsideration under Section 1.106 or applications for review under Section 1.115 of the Commission's rules, 47 C.F.R. §§ 1.106, 1.115, may be filed within 30 days of the date of the public notice indicating that this action was taken.

**2. Contact**

**Name:** Jennifer A. Manner      **Phone Number:** 301-428-5893  
**Company:** HNS License Sub, LLC      **Fax Number:** 301-428-2818  
**Street:** 11717 Exploration Lane      **E-Mail:** jennifer.manner@echostar.com  
**City:** Germantown      **State:**  
**Country:** USA      **Zipcode:** 20876 -  
**Attention:**      **Relationship:**

(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 IB2015001651

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

11/15/2015

7. City Bismarck

8. Latitude

(dd mm ss.s h) 46 51 5.7 N

9. State ND	10. Longitude (dd mm ss.s h) 100 46 48.7 W
11. Please supply any need attachments. Attachment 1: STA Request Narrativ Attachment 2: STA Technical Data Attachment 3: 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.) 30 Day STA request to test gateway Earth station in Bismarck, ND for Jupiter 2 (EchoStar XIX). 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 Jesse T. Jachman	15. Title of Person Signing Senior Counsel, 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.**

### **Request for Special Temporary Authority**

Pursuant to Section 25.120(b)(4),<sup>1</sup> HNS License Sub, LLC (Hughes) requests special temporary authority (STA) for a period of 30 days starting on November 15, 2015 to test a fixed Earth station in Bismarck, ND.<sup>2</sup> Grant of this STA serves the public interest as it will enable Hughes to proceed with time sensitive testing of new gateway Earth stations to ensure that they are properly installed.

The Earth station which we are seeking an STA for will be used as one of the gateways for the Jupiter 2 (EchoStar XIX) satellite network, which will provide advanced broadband satellite services to U.S. consumers.<sup>3</sup> An application for permanent authority for this Earth station is currently pending.<sup>4</sup>

Grant of this STA is in the public interest because it will enable Hughes to test the antenna of this Earth station upon installation. This test will enable Hughes to ensure that the earth station antenna is properly installed and can successfully operate with the Jupiter 2 satellite. Hughes will perform this test on a non-interference basis. Accordingly, there is no interference concern. In addition, testing will only occur in a frequency range where Fixed Satellite Services operate on a primary basis (29.5 GHz to 30.0 GHz).

For purposes of this STA, Hughes requests authority for the Earth station to communicate with the AMC-15 satellite at 105° W.L. (call sign S2180). This is the primary satellite that Hughes will transmit to for the testing purposes. Hughes' testing may require the Earth station to transmit to the:

- EchoStar XVII (Jupiter 1) satellite at 107.1 W.L. (call sign S2735),
- AMC-16 satellite at 85° W.L. (call sign S2181),
- EchoStar IX satellite at 121° W.L. (call sign S2143),
- Galaxy 28 satellite at 89° W.L. (call sign S2160), and
- ViaSat-1 satellite at 115° W.L. (call sign S2747)

Accordingly, Hughes requests special temporary authority to transmit to those satellites as well. The location data and technical parameters for the testing are provided in Attachment 1 provided with the application.

For the reasons stated herein, Hughes asks that the Commission grant this STA request.

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<sup>1</sup> 47 C.F.R. § 25.120(b)(4).

<sup>2</sup> While an STA is being requested for 30 days, testing is planned to occur over approximately a four day time period within the 30 days.

<sup>3</sup> The FCC has authorized the Jupiter 2 (EchoStar XIX) satellite at 97.1° W.L. to access the U.S. market. *See* IBFS File Nos. SAT-LOI-20110809-00148 (granted Jul. 27, 2012) and SAT-MOD-20141201-00127 (granted Jun. 23, 2015). The Jupiter 2 satellite is a next generation satellite, which will provide increased capacity for Hughes' satellite broadband services.

<sup>4</sup> *See* IBFS File No. SES-LIC-20150604-00338 and SES-AMD-INTR2015-01651 (submission ID IB2015001651).

**Amendment Application**

Pursuant to Section 25.116 of the Federal Communications Commission's Rules, HNS License Sub, LLC ("Hughes") files this application to amend IBFS File No. SES-LIC-20150604-00338 (filed on May 28, 2015). This amendment provides correct location data for the Earth station antenna due to a typographical error in the coordinates of the original application.

The correct coordinates are 46° 51' 5.7" N; 100° 46' 48.7" W. All other information in the application remains unchanged.