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E150077 SES-STA-20151214-00935 IB2015002421
HNS License Sub, LLC

Approved by OMB
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

PK: 12-30-2015

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Renewal of STA Request to Test J2 Gateway in Cheyenne, WY

I. 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		

180 days "Extension with condition"

File # SES-STA-20151214-00935

Call Sign E150077 Grant Date 02/11/2016
(or other identifier)

Term Dates
From 02/10/2016 To: 08/07/2016

Approved: Paul E. Haco




Applicant: HNS License Sub, LLC
Call Sign: E150077
File No.: SES-STA-20151214-00935
Special Temporary Authority (STA)

HNS License Sub, LLC is granted extension to Special Temporary Authority for 180 days beginning February 10, 2016, to use its Cheyenne, WY, Ka-band earth station, to communicate with: the AMC-15 satellite (call sign S2180) at orbital location 105° W. L. Primary satellite; 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 Galaxy 28 (see IA-8) S2160/Telstar 8(IA-8) S2205 at 89° W.L. orbital location; and ViaSat-1 satellite (call sign S2747) at 115° W.L. orbital location to test gateway Earth station to provide advanced broadband satellite services under the following conditions:

1. Operations are restricted to center frequency 29.5625 GHz (Earth-to-space) within coordinated emission and power limits and on 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. HNS License Sub, LLC- shall not cause harmful interference to, and shall not claim protection from interference by any other lawfully operating radio communication system.
3. Grant of this STA is without prejudice to any determination that the Commission may make regarding pending or future HNS License Sub, LLC applications.
4. 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 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.

180 days *Extensions with conditions*

 GRANTED International Bureau	File # <u>SES-STA-20151214-00935</u>
	Call Sign <u>E150077</u> Grant Date <u>02/11/2016</u> (or other identifier)
	Term Dates From <u>02/10/2016</u> To: <u>08/07/2016</u>
	Approved: <u>Paul E. Glass</u>

Request for Renewal of Special Temporary Authority

Pursuant to Section 25.120(b)(4),¹ HNS License Sub, LLC (Hughes) requests a 180-day renewal of its special temporary authority (STA) (File No. SES-STA-20150928-00643) to test a fixed earth station in Cheyenne, WY, at 29.5625 GHz (uplink) and 19.7-20.2 GHz (downlink). 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 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.² An application for regular authority for this earth station has been approved by the Commission on December 3, 2015.³

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 to the initial STA application.⁴

¹ 47 C.F.R. § 25.120(b)(4).

² 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.

³ See IBFS File No. SES-LIC-20150604-00333.

⁴ See IBFS File No. SES-STA-20150928-00643.

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 SESSTA2015092800643 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
01/08/2016

7. City Cheyenne

8. Latitude
(dd mm ss.s h) 41 7 55.2 N

9. State WY	10. Longitude (dd mm ss.s h) 104 44 9.6 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.) <div style="border: 1px solid black; padding: 5px; margin: 5px 0;">Seeking 180-day STA renewal to test Jupiter 2 gateway earth station in Cheyenne, WY. See attached narrative.</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. <input checked="" type="radio"/> Yes <input type="radio"/> No	
14. Name of Person Signing Jennifer A. Manner	15. Title of Person Signing 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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