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E150076 SES-STA-20151214-00934 IB2015002419
HNS License Sub, LLC

Approved by OMB
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY "Red Light"

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

I. Applicant

| | | | |
|-------------------|------------------------|----------------------|------------------------------|
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| Attention: | Jennifer Manner | | |

180 days *"Extension with conditions"*



File # SES-STA-20151214-00934

Call Sign E150076 **Grant Date** 03/04/2016
(or other identifier)

Term Dates
From 03/03/2016 **To:** 08/07/2016

Approved: Paul E. Blair


Applicant: HNS License Sub, LLC
Call Sign: E150076
File No.: SES-STA-20151214-00934
Special Temporary Authority (STA)

HNS License Sub, LLC is granted extension to Special Temporary Authority for 180 days beginning March 03, 2016, to use its Gilbert, AZ, 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(nee 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 29.6875 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.
5. Operations of this earth station with AMC-15 satellite at permanent orbital location 105.° W.L., during the period when SES-STA-20150928-00642 expired to the grant of this license was authorized pursuant to Section 1.62 of the Commission's rules, 47 C.F.R. 1.62.

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 "Extension with conditions"

 **GRANTED**
International Bureau

File # SES-STA-20151214-00934

Call Sign E150076 Grant Date 03/04/2016
(or other identifier)

Term Dates
From 03/03/2016 To 08/07/2016

Approved: Paul E. Allen

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-20150928-00642) to test a fixed earth station in Gilbert, Arizona, at 28.5005 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 was approved by the Commission on December 7, 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 (28.35 GHz to 28.6 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-20150604-00332.

⁴ See IBFS File No. SES-STA-20150928-00642.