

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 J2 Gateway in Cheyenne, WY

1. Applicant

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30 days

"Extension with conditions"

File # SES-STA-20150928-00643

Call Sign E150077 Grant Date 11/30/2015
(or other identifier)

Term Dates
From 12/10/2015 To: 01/08/2016

Approved: Paul E. Hayes


Applicant: HNS License Sub, LLC
Call Sign: E150077
File No.: SES-STA-20150928-00643
Special Temporary Authority (STA)

HNS License Sub, LLC is granted extension to Special Temporary Authority for 30 days beginning December 10, 2015, 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(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 29.5625 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.

30 days *"Extension with condition"*

 GRANTED International Bureau	File # <u>SES-STA-20150928-00643</u>
	Call Sign <u>E150077</u> Grant Date <u>11/30/2015</u> (or other identifier)
	Term Dates From <u>12/10/2015</u> To <u>01/08/2016</u>
	Approved: <u>Paul E. Allen</u>

Request for Special Temporary Authority

Pursuant to Section 25.120(b)(4),¹ HNS License Sub, LLC (Hughes) requests special temporary authority (STA) for a period of 30 days starting on December 10, 2015 to test a fixed Earth station in Cheyenne, WY.² 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.³ An application for permanent authority for this Earth station is currently pending.⁴

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.

¹ 47 C.F.R. § 25.120(b)(4).

² 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.

³ 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.

⁴ See IBFS File No. SES-LIC-20150604-00333 (filed May 28, 2015).