

**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 60 days starting on April 18, 2016 to test a fixed Earth station in Albuquerque, NM.<sup>2</sup> Grant of this STA serves the public interest as Hughes needs to run time sensitive testing of new gateway Earth stations to ensure that they are properly installed.

The Earth station which we are seeking STA authority for testing will be used as one of the gateways for the Jupiter 2 (EchoStar XIX) satellite network.<sup>3</sup> The application for regular authority for this Earth station was granted on December 2, 2015.<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 agrees to perform this test on a non-interference basis. Accordingly, there is no interference concern. In addition, testing will only occur at 28500.5 MHz within the frequency range where Fixed Satellite Services operate on a primary basis (29.5 GHz to 30.0 GHz). The receive frequency range is 19.7-20.2 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 S2753),
- AMC-16 satellite at 85° W.L. (call sign S2181),
- EchoStar IX satellite at 121° W.L. (call sign S2179),
- Galaxy 28 (nee IA-8) S2160/Telstar 8(IA-8) S2205 at 89°W.L, 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 request that the Commission grant the 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 60 days, testing is planned to occur over approximately a four-day time period within the 60 days.

<sup>3</sup> 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 that will provide increased capacity for Hughes' satellite broadband services.

<sup>4</sup> See IBFS File No. SES-LIC-20150604-00340 (granted Dec. 2, 2015).