

NARRATIVE STATEMENT

A. Purpose of Operation and Need for Special Temporary Authority Experimental License:

HNS License Sub, LLC (“Hughes”) respectfully requests modification of its special temporary authority (call sign WR9XAB) from the Federal Communications Commission (“FCC”) to test and evaluate new equipment for wireless broadband access to the home in rural, suburban and urban areas.

Specifically, Hughes requests to add an additional hub location to its special temporary authority to test and evaluate key functionalities of prototype equipment designed to improve Non-Line-of-Sight (“NLoS”) reliability and spectral efficiency of wireless of broadband wireless access systems. This additional hub on a tower will facilitate testing and evaluation of the coverage, capacity, and reliability of multiple link operations on the same frequency channel. The additional hub location will use the same prototype Base-Node (“BN”) and remote node (“RN”) radio equipment operating in the 3300-3550 and 3700-3800 MHz bands, as described below.

Hughes does not propose to market, sell, or lease prototype equipment or services to end users.

Hughes requests expedited grant of this additional hub site to its special temporary authority (starting October 27, 2020) in order to enable it to conduct propagation testing while foliage is still on the trees. The additional hub site is approximately four miles from the licensed hub under call sign WR9XAB.

B. Additional Location Information:

Additional Hub Location:

11717 Exploration Lane, Germantown, MD

Lat., Long.: 39.180354°, -77.248725° in WGS84

Ground Elevation: 152 meters AMSL

Building/Antenna Structure Height: 54.9 meters AGL

Antenna Height to Tip: 54.9 meters AGL

Center of Radiation: 53.9 meters AGL

Remote Sites:

Various temporary fixed locations within a 15 km radius of the hub location

C. Technical Specifications:

- 1. Frequencies:** 3300-3550 MHz and 3700-3800 MHz
- 2. Effective Radiated Power and Equipment:**

Type	Equipment Model	Number of stations	Bandwidth (MHz)	Emission designator	EIRP (dBm)	EIRP (W)	ERP (dBm)	ERP (W)
Base station	BN AA3-BN-XX	2	80	80M0D7D	55	316.2	52.8	190.5
Remote terminal	RN AA3-RNF-XX	20	40	40M0D7D	46.4	43.7	44.2	26.3

D. Contact Information:

For questions about this application, please contact:

Kimberly Baum
Hughes
11717 Exploration Lane
Germantown, MD 20876
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Email: Kimberly.baum@echostar.com

In the unlikely event interference concerns should arise during the period of authorization for this license, please contact:

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Senior Director Marketing
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In addition to Kimberly Baum whose information is provided above.