

EXHIBIT 1

DESCRIPTION OF PROPOSED MODIFICATION (Response to Question 43, FCC Form 312)

Pursuant to 47 C.F.R. § 25.117(b)(3), HNS License Sub, LLC (together with its affiliates, “Hughes”) requests modifications of its blanket earth station license (Call Sign E060445) (“Blanket License”) to operate very small aperture terminals (“VSATs”) in the Ka-band fixed satellite service (“FSS”).¹ Specifically, Hughes seeks to modify the Blanket License by: (i) adding EchoStar XXIV (also known as HNS-95W or Jupiter 3), a U.S.-licensed satellite to be deployed at 95.2° W.L.,² as a point of communications for all antennas authorized under the Blanket License; and (ii) slightly increasing the maximum input power of certain 74 cm. (in diameter) VSAT antennas authorized under Antenna ID “TR74CM(FD)” from 2 to 3 watts.

The proposed technical changes are further specified in the accompanying Schedule B, with all other authorized technical parameters remaining the same. Additionally, Attachment A provides an updated radiation hazard analysis with calculations to account for the proposed minor increase in input power of the 74 cm. VSAT antennas authorized under Antenna ID “TR74CM(FD).” Pursuant to 47 C.F.R. § 25.117(c), Hughes certifies that, except for the proposed changes, the information provided in previously approved applications remains materially unchanged.

EchoStar XXIV is authorized under the Satellite License to operate at 95.2° W.L. on Ka-band and other frequencies,³ including Ka-band spectrum that is also authorized under the

¹ See Hughes, Blanket License, IBFS File No. SES-MFS-20210119-00069 (Mar. 8, 2021).

² See Hughes, *Stamp Grant*, IBFS File Nos. SAT-MOD-20190212-00011 *et al.* (June 13, 2019) (“Satellite License”).

³ See *id.* at 1.

Blanket License (*e.g.*, 18.3-19.3 GHz, 19.7-20.2 GHz, 28.35-28.60 GHz, and 29.3-29.9 GHz).⁴

Thus, the proposed addition of EchoStar XXIV at 95.2° W.L. as a point of communications for all VSAT antennas authorized under the Blanket License is consistent with the terms of the Satellite License.

Additionally, the proposed minor increase in maximum input power will have no impact on either equivalent isotropically radiated power levels authorized under the Blanket License or compliance with applicable antenna gain limits specified in 47 C.F.R. § 25.209. Consequently, the proposed technical changes require no additional technical analysis, raise no additional interference risks, and serve the public interest.

⁴ *See* Hughes, Blanket License, § B (Particulars of Operations). Although the Blanket License also authorizes VSAT uplink transmissions in the 29.25-29.30 GHz and 29.9-30.0 GHz bands, VSAT uplink transmissions to EchoStar XXIV will be limited to the 28.35-28.60 and 29.3-29.9 GHz bands, consistent with the terms of the Satellite License. *See* Hughes, Satellite License at 1.