

EXHIBIT 1

DESCRIPTION OF PROPOSED MODIFICATION (Response to Question 43)

Pursuant to Sections 25.117 and 25.121(b) of the Commission's rules,¹ EchoStar Satellite Services, LLC (with its affiliates, "EchoStar") requests a modification to extend the term of its license to operate EchoStar 9 (Call Sign S2179), consisting of Ku- and Ka-band fixed satellite service ("FSS") payloads at the 121° W.L. orbital location,² for an additional eight-month period through April 30, 2023. Grant of the proposed modification is warranted under the circumstances, will serve the public interest, and is consistent with the Commission's prior extension of the license term.³

Specifically, the proposed modification will allow continued EchoStar 9 operations through April 2023, consistent with an updated estimate of the satellite's fuel consumption and end of life. In support of its request, EchoStar certifies that (i) with the exception of the gyros within the attitude control system,⁴ all subsystems on the spacecraft are operating normally; (ii) the spacecraft has no single point of failure affecting its ability to perform planned post-mission

¹ See 47 C.F.R. §§ 25.117, 25.121(b).

² See *EchoStar*, Stamp Grant, IBFS File No. SAT-MOD-20191108-00128 (Jan. 30, 2020) (authorizing EchoStar 9's revised technical parameters and service area); *EchoStar Satellite Operating Corp.*, Order and Authorization, 21 FCC Rcd 14780 (IB 2006) (adding EchoStar 9's operating frequencies and updating technical parameters); *EchoStar KuX Corporation*, Order and Authorization, 20 FCC Rcd 942 (IB 2004); *EchoStar Satellite Corp.*, Order and Authorization, 18 FCC Rcd 15862 (IB 2003) (authorizing EchoStar's hybrid Ka-/Ku-band FSS operations at 121° W.L.); *EchoStar Satellite Corp.*, Order and Authorization, 13 FCC Rcd 5664 (IB 1997) (authorizing EchoStar to launch and operate a Ka-band FSS satellite at 121° W.L.).

³ See *EchoStar Satellite Operating Corp.*, Stamp Grant, IBFS File No. SAT-MOD-20180709-00052 (Sept. 27, 2018) (granting a four-year extension of EchoStar 9's license term and consolidating call signs).

⁴ Of the four gyros on board, one failed earlier in the satellite's life and another requires human intervention to operate properly. These gyros are required only during infrequent north-south station-keeping maneuvers, and their operations (or failure) will not inhibit the satellite's ability to remain within its east-west station-keeping box or to properly de-orbit at the end of life.

disposal procedures;⁵ and (iii) except with respect to the license term extension requested herein, the remaining information regarding EchoStar 9's authorized operations has not materially changed.⁶

Additionally, extending the license term will serve the public interest by allowing EchoStar to continue providing uninterrupted quality service for customers requiring access to short- and long-term FSS capacity solutions. Since its launch in August 2003, EchoStar 9 has provided both occasional-use and long-term capacity to fulfill customer demand for Ku- and Ka-band FSS. For example, EchoStar has contracted use of EchoStar 9's Ku/Ka-band payloads for occasional-use capacity to television stations and other customers requiring satellite capacity for short-term uses, such as coverage of high-profile events. EchoStar 9 also has been used to fulfill long-term government services, data relay, and data backhaul contracts. More recently, EchoStar 9 was used to support ongoing emergency rescue, relief, and recovery operations in the Bahamas following a major hurricane, and has been authorized to provide similar services to the Caribbean and other remote, underserved areas of the world.⁷ Thus, EchoStar 9 has served and continues to serve as an important component of the EchoStar satellite network. Indeed, the Commission previously granted a four-year extension of EchoStar 9's license term based upon substantially similar public interest benefits and considerations.⁸

Accordingly, the Commission should grant an additional eight-month extension of EchoStar 9's license term, consistent with its prior extension grant and the public interest.

⁵ At the end of EchoStar 9's mission, EchoStar will dispose of the satellite by moving it to an altitude of at least 300 km (perigee) above the geostationary arc. *See* EchoStar, Application for Modification, IBFS File No. SAT-MOD-20060830-00092, Technical Annex at A17-A19 (Aug. 30, 2006).

⁶ *See* 47 C.F.R. § 25.117(c).

⁷ *See* EchoStar, Application for Modification, IBFS File No. SAT-MOD-20191108-00128, Exh. 1 (Description of Proposed Modification) at 1 (Nov. 8, 2019).

⁸ *See* EchoStar, Application for Modification, IBFS File No. SAT-MOD-20180709-00052, Exh. 1 (Description of Proposed Modification) at 1-2 (July 9, 2018).