

EXHIBIT 1
NARRATIVE DESCRIPTION OF PROPOSED MODIFICATION
(TERM EXTENSION REQUEST)
(Response to Question 43)

Pursuant to Section 308, 309 and 319 of the Communications Act of 1934, as amended, 47 U.S.C. §§ 308, 309 and 319, Part 25 of the Commission's rules, 47 C.F.R. Part 25, and Section 25.117 of the Commission's rules, 47 C.F.R. § 25.117, EchoStar BSS Corporation ("DISH") files this application¹ to extend its authority to operate the EchoStar 16 satellite (S2844) at the nominal 61.5° W.L. orbital location until February 14, 2030, which is shortly before the estimated end-of-life for the satellite, which is March 2030.

The Commission originally granted DISH's predecessor-in-interest, EchoStar Satellite Operating Corporation, authority to operate EchoStar 16 at the 61.5° W.L. orbital location on June 22, 2012.² The grant stated that EchoStar 16's license term would begin 10 years from the date that DISH certified to the Commission that EchoStar 16 had been placed into orbit and its operation fully conformed to the terms and conditions of its authorization.³ EchoStar 16 commenced operations at the 61.5° W.L. orbital location on February 14, 2013 and DISH certified that fact to the Commission on February 15, 2013.⁴ DISH subsequently sought a minor modification to reflect minor variances in the satellite's cross-polarization isolation performance

¹ This application qualifies as a minor modification because it proposes no change to orbital location or authorized frequencies, nor will it increase the potential for interference. Rather, DISH is requesting renewal of its authority to continue to operating EchoStar 16 at the nominal 61.5° W.L. orbital location.

² EchoStar Satellite Operating Corporation, File No. SAT-LOA-20110902-00172 (granted June 22, 2012).

³ *Id.* at Condition 4.

⁴ Letter from Jaime Londono, DISH, to Fern Jarmulnek, FCC, File No. SAT-LOA-20110902-00172 (Feb. 15, 2013).

for certain transmit and receive beams, which was granted by the Commission.⁵ DISH also has special temporary authority to operate EchoStar 16 on channels 1 and 2.⁶

Because the original EchoStar 16 license expires on February 14, 2023, DISH hereby requests a renewal of this license to continue to operate EchoStar 16 at 61.5° W.L. for another seven years to February 14, 2030. DISH is currently providing international, high-definition (“HD”) and local programming using the EchoStar 16 satellite at 61.5° W.L. DISH has provided continuous DBS service from its various orbital locations since 1996, and is now a leading multichannel video programming distributor with millions of DBS subscribers.

The requested renewal will serve the public interest by enabling DISH to continue providing high-quality DBS services to its customers from the 61.5° W.L. orbital location. Indeed, DISH’s ability to compete in this market would be seriously impaired without the continued ability to provide service from the 61.5° W.L. nominal orbital location. As the Commission is well aware, DISH has provided continuous DBS service from its various orbital locations since 1996, and is now a leading multichannel video programming distributor with its customer, DISH Network L.L.C., providing service to millions of subscribers.

A completed FCC Form 312 is attached, and DISH hereby incorporates by reference the technical information previously provided regarding the operations of EchoStar 16.

DISH has calculated and certifies that there is sufficient fuel onboard the EchoStar 16 spacecraft to continue providing reliable DBS service and to complete deorbit as planned by the end of the requested term extension. Specifically, DISH has calculated that the EchoStar 16 end-of-life will occur in March 2030. EchoStar 16 was originally launched in 2013 with an original

⁵ EchoStar Satellite Operating Corporation, SAT-MOD-20120829-00144 (granted Nov. 19, 2012).

⁶ EchoStar BSS Corporation, SAT-STA-20220719-00070 (granted Sept. 30, 2022).

useful life of 15 years. Based on remaining life and continued on-orbit spare operations at the 61.5° W.L. nominal orbital location as well as fuel measurement methods that include Pressure-Temperature-Volume (“PTV”), Bookkeeping, Propellant Gauging System (“PGS”) and Propellant Depletion Gauge (“PDG”) checks, DISH projects that EchoStar 16 has fuel sufficient through the end of the requested extension and projected end-of-life in March 2030. DISH certifies that all subsystems on the spacecraft are operating normally and that the satellite has no single point of failure that could affect its ability to conduct end-of-life procedures as planned. In addition, DISH certifies that the telemetry, tracking, and command links for EchoStar 16 are fully functional.

For the foregoing reasons, DISH respectfully requests that the Commission promptly grant this application for a minor modification to extend the expiration date on the EchoStar 16 license to February 14, 2030.

January 26, 2023