HNS License Sub, LLC
FCC Form 312 – STA
Narrative Exhibit
June 2012

REQUEST FOR SPECIAL TEMPORARY AUTHORITY
Call Signs: E060382 and E060383

HNS License Sub, LLC ("Hughes") hereby requests Special Temporary Authority beginning on July 15, 2012, and continuing for 30 days thereafter (to August 14, 2012) to operate its new 9.2 meter transmit/receive Earth Station antennas at Castle Rock, Colorado (Call Sign E060382)[1] and Fillmore, California (Call Sign E060383)[2] at an increased maximum EIRP level per carrier of up to 90.0 dBW for a single emission designator. The temporary increase in power is needed by Hughes, which uses the two earth stations for telemetry, tracking, and command ("TT&C") operations, to support the orbit raising maneuvers and in-orbit testing of the EchoStar XVII (f/k/a Jupiter 1 and Spaceway 4) satellite, Call Sign S2866.

EchoStar XVII, a Ka-band fixed-satellite service ("FSS") satellite to be located at 107.1° W.L., is expected to be launched from Kourou, French Guiana during the first week of July 2012. Hughes is requesting Special Temporary Authority to increase the maximum EIRP level per carrier from 56.3 dBW to 90.0 dBW for emission designator 600KF9D for TT&C Earth Stations E060382 (Castle Rock, CO) and E060383 (Fillmore, CA) to perform in-orbit testing of EchoStar XVII. Under this request, the maximum EIRP density level per carrier will equal the maximum aggregate output level specified in the earth station licenses for all carriers intermittently and for short periods of time during the proposed STA term. In accordance with industry practice, Hughes has undertaken to coordinate the temporary increase in power with operators of all co-frequency spacecraft within six degrees of longitudinal separation of EchoStar

[1] *See* File No. SES-MFS-20120426-00393.
[2] *See* File No. SES-MFS-20120426-00394.

XVII at 107.1º W.L., and will operate in accordance with the coordination arrangements it reaches. Hughes intends not to transmit in excess of the per-carrier power level authorized in its license through the geostationary arc in order to avoid interference with satellites in geostationary orbit. All operations under this STA that are at variance with the underlying licenses for the subject earth stations will be performed on a non-harmful interference basis. No additional changes to the remaining authorized transmitting and receiving frequency bands are requested by this request for Special Temporary Authority.

During the orbit raising maneuvers of EchoStar XVII, the satellite's communications payload will be turned off and only TT&C functions will be used. Hughes is requesting identical authority for the two TT&C earth stations used for EchoStar XVII to ensure itself the maximum amount of flexibility in testing the Ka-band payload on an abbreviated schedule, and to provide redundancy in terms of number and site diversity should a problem arise with one of the antennas.

The requested Special Temporary Authority will serve the public interest by ensuring that Hughes' EchoStar XVII satellite can be maneuvered and successfully tested so that the satellite can begin to make productive use of the valuable spectrum and orbital resources as soon as possible. Adding new Ka-band fixed-satellite service capacity for the provision of commercial services to customers in the United States is very much in the public interest.

Hughes is submitting this request pursuant to Section 25.120(b)(4) of the Commission's rules, 47 C.F.R. § 25.120(b)(4), and is doing so more than three business days in advance of the requested commencement date.

For all of the foregoing reasons, Hughes respectfully requests that the Commission grant this request for Special Temporary Authority to operate the EchoStar XVII TT&C earth stations for in-orbit testing of EchoStar XVII for a period of 30 days, commencing on July 15, 2012.