

E060383 SES-STA-20120613-00510 IB2012001419
HNS License Sub, LLC

Approved by OMB
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
June 2012 E060383 Fillmore CA 30-Day STA Request for IOT Operations

1. Applicant

Name: HNS License Sub, LLC **Phone Number:** 301-428-5506
DBA Name: **Fax Number:** 301-428-2802
Street: 11717 Exploration Lane **E-Mail:** Steven.Doiron@hughes.com
City: Germantown **State:** MD
Country: USA **Zipcode:** 20876
Attention: Mr. Steven Doiron

SES-STA-20120613-00510
E060383
Call Sign: Grant Date: 7-15-12
(or other identifier)
From: 7-15-12
This Order
Approved: *Michael E. Hughes*



RECEIVED

Applicant: HNS License Sub, LLC
Call Sign: E060383
File No.: SES-STA-20120613-00510
Special Temporary Authority (STA)

HNS License Sub, LLC (HNS) is granted, under the following conditions, STA for 30 days, from July 15, 2012 through August 14, 2012 to use its 9.2 meter Ka-band earth station antenna licensed under file number SES-MFS-20120426-00394, Call Sign E060383, to provide telemetry, tracking, and command (TT&C) functions to support the orbit raising maneuvers and in-orbit testing (IOT) of EchoStar XVII satellite at orbital location 107.1° W.L.

- 1) HNS is granted authorization operate this earth station with an increase of the maximum EIRP level per carrier from 56.3 dBW to 90.0 dBW for TT&C emission designator 600KF9D in the frequency band 29500.0 - 29515.0 MHz to perform in-orbit testing of EchoStar XVII.
- 2) All operations shall be on an unprotected and non-harmful interference basis, HNS License Sub, LLC, Call Sign E060383, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
- 3) Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at HNS risk.
- 4) This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately.



SES-STA-20120613-00510

E060383
Call Sign _____ Grant Date 7-13-12
(or other identifier) _____
From 7-15-12 To 8-14-12
Term Dates _____
Approved: *Paul E. Baker*

2. Contact			
Name:	Stephen D. Baruch	Phone Number:	202-416-6782
Company:	Lerman Senter PLLC	Fax Number:	202-429-4626
Street:	2000 K Street, N.W. Suite 600	E-Mail:	sbaruch@lermansenter.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20006 -
Attention:		Relationship:	Legal Counsel
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)			
3. Reference File Number SESMFS2012042600394 or Submission ID			
4a. Is a fee submitted with this application?			
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).			
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee			
<input type="radio"/> Other (please explain):			
4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station			
5. Type Request			
<input type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other			
6. Requested Use Prior Date			
07/15/2012			
7. City Fillmore		8. Latitude	
		(dd mm ss.s h) 34 24 18.0 N	

9. State CA	10. Longitude (dd mm ss.s h) 118 53 39.0 W
11. Please supply any need attachments. Attachment 1: Attachment Attachment 2: Attachment 3:	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) See attachment. July 15, 2012 commencement date requested.	
13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application"; party to the application; for these purposes. Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Steven Doiron	15. Title of Person Signing Senior Director, Regulatory Affairs
WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

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 107.1° 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.