

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
July 2007 STA Request for Castle Rock CO Station IOT Operations

**I. Applicant**

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

*Conclusion Attached*

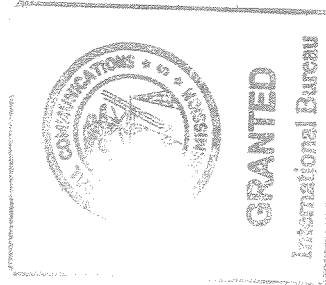
File # SES-STA-20070709-00908

Call Sign E060382 Grant Date 8/10/07  
(or other identifier)

Term Expires 8/13/07  
From 8/14/07 To 9/13/07

Approved: 

*(SOG) SCOTT KOTLER*



## Attachment

SES-STA-20070709-00908  
E060382

SES-STA-20070709-00909  
E060383

### Condition:

The 17.8 - 20.2 GHz band is shared with U.S. Government space stations and associated earth stations in the Fixed-Satellite Services. Services within the United States over the satellite network of which this is a cooperating earth station are subject to coordination under US334 and operation of the earth station(s) authorized herein will be subject to any technical constraints resulting from this coordination.

<b>2. Contact</b>			
<b>Name:</b>	Stephen D. Baruch	<b>Phone Number:</b>	202-416-6782
<b>Company:</b>	Leventhal Senter & Lerman PLLC	<b>Fax Number:</b>	202-293-7783
<b>Street:</b>	2000 K Street, N.W. Suite 600	<b>E-Mail:</b>	sbaruch@lsl-law.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20006 -
<b>Attention:</b>		<b>Relationship:</b>	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 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			
08/14/2007			
7. City/Castle Rock			
8. Latitude			
(dd mm ss.s h) 39 16 35.0 N			

9. State	CO	10. Longitude (dd mm ss.s h)	104 48 29.0 W
11. Please supply any need attachments. Attachment 1: Exhibit		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.) Temporary authority to operate earth station with increased maximum EIRP level per carrier for a single emission designator is requested. Operation is needed to support TT&C for new SPACEWAY 3 satellite during orbit-raising maneuvers and in-orbit testing. See Exhibit.			
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"; for these purposes. <input checked="" type="radio"/> Yes <input type="radio"/> No			
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 August 14, 2007, and continuing for 30 days thereafter (to September 13, 2007) to operate its transmit/receive Earth Stations at Castle Rock, Colorado, Call Sign E060382,<sup>1</sup> and Fillmore, California, Call Sign E060383,<sup>2</sup> at an increased maximum EIRP level per carrier of up to 93.0 dBW for a single emission designator. The temporary increase in power is needed by Hughes, which uses the two earth station for telemetry, tracking, and command (“TT&C”) operations, to support the orbit raising maneuvers and in-orbit testing of the SPACEWAY 3 satellite, Call Sign S2663.

SPACEWAY 3, a Ka-band fixed-satellite service (“FSS”) satellite to be located at 94.95° W.L., is fully constructed and is scheduled to be launched from Kourou, French Guiana on August 14, 2007. Hughes is requesting Special Temporary Authority to increase the maximum EIRP level per carrier from 56.3 dBW to 93.0 dBW for emission designator 600KF9D for TT&C Earth Stations E060382 (Castle Rock, CO) and E060383 (Fillmore, CA) to perform orbit raising maneuvers and in-orbit testing of SPACEWAY 3. 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 for short periods of time. 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 for SPACEWAY 3 at 94.95° 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 SPACEWAY 3, 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 SPACEWAY 3 to ensure itself the maximum amount of flexibility in testing the Ka-band

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<sup>1</sup> See File No. SES-LIC-20061017-01852, as amended by File Nos. SES-AMD-20061103-01954 and SES-AMD-20070207-00204.

<sup>2</sup> See File No. SES-LIC-20061017-01869, as amended by SES-AMD-20061103-01952 and SES-AMD-20070207-00203.

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' SPACEWAY 3 satellite can be maneuvered and successfully tested so that it will reach its licensed orbital location safely and in good working order, and that once on station, 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. To the extent that in-orbit testing may take more than 30 days from August 14, Hughes may need to seek an extension of the authority requested here in due course. A complementary request for temporary authority to operate the SPACEWAY 3 satellite at variance from its authorization for in-orbit testing purposes will be filed by Hughes Communications, Inc.

For all of the foregoing reasons, Hughes respectfully requests that the Commission grant this request for Special Temporary Authority to operate the SPACEWAY 3 TT&C earth stations for in-orbit testing of SPACEWAY 3 for a period of 30 days, commencing August 14, 2007.