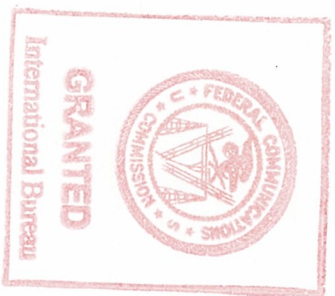


APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Castle Rock CO Pre-Grant STA Request September 2011

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:	Steven.Doiron@hughes.com
City:	Germentown	State:	MD
Country:	USA	Zipcode:	20876
Attention:	Mr. Steven Doiron		



30 days *"with conditions"*

File# SES-STA-20110916-01100
Call Sign E060382 *Grant Date 09/28/2011*
(or other identifier) *Term Dates*
From 09/28/2011 *To 10/28/2011*
Approved: Paul E. Hays

Conditions:
SES-STA-20110916-01100
E060382

HNS License Sub, LLC (HNS) is granted Special Temporary Authority for 30 days, from 9/28/2011 through 10/28/2011, authorization to operate, for testing purposes only, telemetry, tracking, and command ("TT&C") signals over only the new 9.2 meter GDSATCOM transmit/receive Earth station antenna at Castle Rock, CO as described in SES-MFS-20110912-01065 filing. Based on the following conditions:

1. Testing may be conduct over only Galaxy 28 @ 89° W.L.(S2205), AMC-15 @ 105° W.L.(S2180), or AMC-16 @ 85° W.L. (S2181) on uplink frequencies:28351-28353 MHz and downlink frequencies: 20199.5000, 19700.5000-19702.5000 MHz.
2. All operations shall be on an unprotected and non-harmful interference basis, i.e., HNS shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station.
3. In the event that there is a report of interference, HNS must immediately terminate transmissions and notify the FCC in writing.
4. HNS must comply with all FAA antenna height restrictions defined in 47 CFR Part 17.
5. HNS must make all reasonable and customary measures to ensure that the earth station does not create a potential for harmful non-ionizing radiation to persons who may be in the vicinity of the earth station when it is in operation. At a minimum, permanent warning labels shall be fixed to the earth station and its housing warning of the radiation hazard and including a diagram showing the regions around the earth station where radiation levels could exceed 1 .0mW/cm2. The earth station operator shall be responsible for assuring that individuals do not stray into the regions around the earth station where there is a potential for exceeding the maximum permissible exposure limits required by 47 C.F.R. §1.1310. This shall be accomplished by means of signs, caution tape, verbal warnings, placement of the earth station so as to minimize access to the hazardous region, and/or other appropriate means.

30 days "with conditions"



File # SES-STA-20110916-01100
Call Sign E060382 Grant Date 09/28/2011
(or other identifier)
Term Dates
From 09/28/2011 To 10/28/2011
Approved: Paul E. Bloss

Explanation and Public Interest Statement

HNS License Sub, LLC (“Hughes”) is seeking special temporary authority (“STA”) for period of 30 days beginning on September 26, 2011, to operate for telemetry, tracking, and command (“TT&C”) testing purposes the new 9.2 meter GDSATCOM transmit/receive Earth station antenna it has applied to add to its license for Call Sign E060382 at Castle Rock, Colorado. *See* File No. SES-MFS-20110912-01065 (“Modification Application”). Hughes also requests temporary authority to operate the three associated 1.8 meter beacon uplink earth station antennas proposed for beam pointing purposes in the Modification Application – two in North Las Vegas, NV and one in Brownsville, TX – as part of the TT&C tests. The 9.2 meter TT&C earth station antenna and the three Prodelin 1.8 meter beacon uplink antennas will be used with Hughes’s Jupiter 107W satellite upon the spacecraft’s launch in 2012. The temporary authority requested here proposes operation for TT&C testing purposes with Intelsat’s Galaxy 28 satellite at 89° W.L. If capacity on Galaxy 28 is not available to Hughes, Hughes would conduct the tests using either the AMC-15 satellite at 105° W.L. or the AMC-16 satellite at 85° W.L. Under the requested STA, no traffic would be carried on these space stations other than test signals.

Operations of the 9.2 meter GDSATCOM antenna and the three 1.8 meter Prodelin antennas under the requested STA will be as proposed in the above-referenced Modification Application, and all testing is expected to be done at power levels consistent with Section 25.138 of the Commission’s rules.¹ All three potential space stations for testing operations are proposed in the Modification Application as points of communication for the new antennas on Hughes’s license for Call Sign E060382. Hughes incorporates the technical showings from the Modification Application into this submission.

Good cause exists for the grant of the requested STA. As Hughes’s Castle Rock, Colorado earth station is one of two earth station sites that will provide TT&C operations for Jupiter 107W upon its launch next year, it is important that Hughes ensure that the earth station antennas are functional and operationally prepared to be integrated with the space station as soon as the satellite is launched. Hughes is filing concurrently a request for similar temporary authority to test its proposed new GDSATCOM 9.2 meter TT&C

¹ Hughes notes, with respect to the 1.8 meter antennas, that there is a possibility that during the testing, Hughes will need to increase the power levels of the beacon stations briefly to levels above those proposed in the Modification Application. Hughes will not operate beyond the proposed levels in any way without having completed coordination of those operations with all potentially affected satellite operators, and recognizes that all operations under this proposed STA are on a non-harmful interference/non-protected basis.

earth station antenna at Fillmore, California (File No. SES-MFS-20110912-01066) under Call Sign E060383.

For the foregoing reasons, Hughes respectfully requests special temporary authority to enable it to operate the new Castle Rock, Colorado 9.2 meter transmit/receive earth station and the proposed new 1.8 meter earth station antennas at North Las Vegas, Nevada and Brownsville, Texas proposed in the pending Modification Application with Galaxy 28 at the 89° W.L. orbital location, AMC-15, at the 105° W.L. orbital location, or AMC-16 at the 85° W.L. orbital location for a period of 30 days beginning on September 26, 2011.

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 SESMFSS2011091201065 or Submission ID

4a. Is a fee submitted with this application?

- If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).
- Governmental Entity Noncommercial educational licensee
- Other (please explain):

4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

- Use Prior to Grant Change Station Location Other

6. Requested Use Prior Date

09/26/2011

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 30.0 W
11. Please supply any need attachments. Attachment 1: Narrative 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.) HNS License Sub, LLC seeks temporary authority to operate for TT&C testing purposes the new TT&C and beacon earth stations proposed in pending modification of license application (File No. SES-MFS-20110912-01065) for Call Sign E060382. See Attachment.	
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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