

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
October 2011 Request for Special Temporary Authority for Gateway Stations

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: Germantown **State:** MD
Country: USA **Zipcode:** 20876
Attention: Mr. Steven Doiron

SES-STA-2011024-01253
E110149
Call Sign
(or other identifier)
From 11-10-11
Grant Date 11-10-2011
Term Date 1-8-12
Approved: Paul E. Hinch
with conditions

Conditions

SES-STA-20111024-01253

E110149

HNS License Sub, LLC (HNS) is granted Special Temporary Authority (STA) for 60 days, from 11/10/2011 through 01/08/2012, authorization to operate, for testing-only purposes, telemetry, tracking, and command ('TT&C') signals only over the transmit/receive earth station antennas as described in SES-LIC-20111021-01243 ("License Application" for testing purposes.) In the License Application, Hughes seeks a blanket license to operate eleven 6.3 meter Vertex antennas and four 8.1 meter GDSATCOM antennas which will comprise the gateway network for the Jupiter 107W Ka-band fixed-satellite service space station that Hughes's parent company will launch and place into operation in 2012.

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.



SES-SIA-2011024-01253
E 110149
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(or other identifier)
From 11-10-11 Term Dates 1-8-12
By 1-8-12
Approved: Paul E. Albee

2. Contact			
Name:	Stephen D. Baruch	Phone Number:	202-416-6782
Company:	Lerman Senter PLLC	Fax Number:	202-293-7783
Street:	2000 K Street, N.W. Suite 600	E-Mail:	sbaruch@lermansenter.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20006
Attention:	Stephen D. Baruch	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 SESLIC2011102101243 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 checked="" type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input type="radio"/> Other			
6. Requested Use Prior Date			
11/01/2011			
7. City			
8. Latitude			
(dd mm ss.s h) 0 0 0.0 N			

9. State	10. Longitude (dd mm ss.s h) 0 0 0.0 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.) <div style="border: 1px solid black; padding: 5px; min-height: 100px;">See attached narrative.</div>	
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.	
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.

Explanation and Public Interest Statement

HNS License Sub, LLC (“Hughes”) is seeking pre-grant special temporary authority (“STA”) for period of 60 days beginning on November 1, 2011, to operate the antennas proposed in its pending application in File No. SES-LIC-20111021-01243 (“License Application”) for testing purposes. In the License Application, Hughes seeks a blanket license to operate eleven 6.3 meter Vertex antennas and four 8.1 meter GDSATCOM antennas which will comprise the gateway network for the Jupiter 107W Ka-band fixed-satellite service space station that Hughes’s parent company will launch and place into operation in 2012.

The testing proposed here will be done one antenna at a time – in other words, there will not be more than one of the fifteen proposed antennas in operation at any given time. All testing is expected to be done using either the AMC-15 satellite at 105° W.L. or the AMC-16 satellite at 85° W.L. If capacity on one of these satellites is not available to Hughes at the time a particular antenna is to be tested, Hughes could conduct the tests using Intelsat’s Galaxy 28 satellite at 89° W.L. All three of these satellites are proposed as points of communication in the License Application. Hughes emphasizes, however, that as none of the three satellites identified for the testing includes the 28.6-29.1 GHz and 18.8-19.3 GHz bands, Hughes does not request authority in this STA request to conduct test transmissions/reception in these bands.

Operations of the 6.3 meter Vertex and 8.1 meter GDSATCOM antennas under the requested STA will be as proposed in the above-referenced License Application, and all testing will be done at power levels consistent with Section 25.138 of the Commission’s rules. As noted, all three potential space stations for testing operations are proposed in the License Application as points of communication for the new antennas. Hughes incorporates the technical showings from the License Application into this submission.

Good cause exists for the grant of the requested STA. The fifteen antennas proposed in the License Application will comprise the gateway network for the new high-capacity Jupiter 107W satellite 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 available for in-orbit testing. In addition, operation will allow the generation of measured antenna patterns for each antenna type, and thus expedite Hughes’s ability to comply with the data submission requirements in Sections 25.138(d) and (e) of the Commission’s rules. Finally, there is an important logistical and cost element here for Hughes as well. Installation of the first of the fifteen antennas is nearing completion, and the installation/operations crew has only limited time within which to test the antenna to complete its installation process before having to move to their next installation assignment. With fifteen sites, if the testing were not able to be done before the crew departs a site, it is uncertain when the next opportunity would be available before the antenna was required to commence regular operation with Hughes Network Systems LLC Jupiter 107W satellite following its 2012 launch. Bringing a crew back for testing would be an added expense.

For the foregoing reasons, Hughes respectfully requests a 60-day special temporary authority commencing November 1, 2011 to enable it to operate, one antenna at a time for testing purposes, the fifteen new antennas it proposes in the License Application. Operations would be with AMC-15 at the 105° W.L. orbital location, AMC-16 at the 85° W.L. orbital location or Galaxy 28 at the 89° W.L. orbital location, and would be limited to the 28.35-28.6/29.25-30 GHz band (Earth-to-space) and 18.3-18.3 GHz/19.7-20.2 GHz bands (space-to-Earth).