

S2369 SAT-STA-20121203-00205  
DIRECTV Enterprises, LLC  
DIRECTV 1R

IB2012002759



File # SAT-STA-20121203-00205

Call Sign S2369 Grant Date 12/14/12

(or other identifier)

From 12/16/12 Term Dates period of 30 days To: 30 days

Approved: Stephen J. Duall

Approved by OMB  
3060-0678

Date & Time Filed: Dec 3 2012 4:25:12:540PM  
File Number: SAT-STA-20121203-00205  
Callsign:

\*with conditions

Stephen J. Duall  
Chief, Satellite Policy Branch

FEDERAL COMMUNICATIONS COMMISSION  
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY  
FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

SAT-STA-D1R


I. Applicant

<b>Name:</b>	DIRECTV Enterprises, LLC	<b>Phone Number:</b>	301-663-0053
<b>DBA Name:</b>		<b>Fax Number:</b>	240-358-0569
<b>Street:</b>	2230 E. Imperial Hwy CA/LAI/N340	<b>E-Mail:</b>	jwengryniuk@directv.com
<b>City:</b>	El Segundo	<b>State:</b>	CA
<b>Country:</b>	USA	<b>Zipcode:</b>	90245 -
<b>Attention:</b>	Mr Jack M Wengryniuk		

**Attachment to Grant**  
**IBFS File No. SAT-STA-20121203-00205**  
**Call Sign S2369**

The application of DIRECTV Enterprises, LLC (DIRECTV) for special temporary authority, IBFS File No. SAT-STA-20121203-00205, is GRANTED. Specifically, DIRECTV is authorized, for a period of 30 days, commencing on December 16, 2012, to conduct in-orbit testing (IOT) of the DIRECTV 1R space station (S2369) at the 55.8° E.L. orbital location using the 12.2-12.5 GHz (space-to-Earth) and 17.3-17.8 GHz (Earth-to-space) frequency bands. This authorization shall be in accordance with the technical parameters set forth in DIRECTV's application and the Commission's rules, and is subject to the following conditions.

1. All operations under this grant of special temporary authority must be on an unprotected and non-harmful interference basis, *i.e.*, DIRECTV must not cause harmful interference to, and must not claim protection from interference caused to it by, any other lawfully operating radiocommunication system.
2. In the event of any harmful interference as a result of operations under this grant of special temporary authority, DIRECTV must cease operations immediately upon notification of such interference and must immediately inform the Commission, in writing, of such an event.
3. DIRECTV must abide by the arrangements reached with affected geostationary space stations in the letter submitted by DIRECTV on December 13, 2012, to ensure that no unacceptable interference results from its IOT operations at the 55.8° E.L. orbital location. *See* Letter from William M. Wiltshire, Counsel to DIRECTV Enterprises, LLC, to Marlene H. Dortch, Secretary, FCC, IBFS File No. SAT-STA-20121203-00205.
4. In connection with the provision of service in any particular country, DIRECTV is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country
5. DIRECTV 1R's operations at 55.8° E.L. under this grant must be limited to in-orbit testing and must not include the provision of commercial services.
6. DIRECTV must maintain the DIRECTV 1R space station within an east/west longitudinal station-keeping tolerance of  $\pm 0.05$  degrees of the 55.8° E.L. orbital location.
7. Any action taken or expense incurred as a result of operations pursuant to this grant of special temporary authority is at DIRECTV's own risk.
8. Within two business days of the start of testing, DIRECTV shall notify the Commission in writing that the IOT operations have commenced.
9. Grant of special temporary authority is without prejudice to any determination that the Commission may make regarding DIRECTV's pending applications to operate the DIRECTV 1R space station at the 55.8° E.L. orbital location. *See* IBFS File Nos. SAT-A/O-20120817-00137, SAT-AMD-20120824-00142, and SAT-AMD-20120913-00148.
10. 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.

 <b>GRANTED*</b> International Bureau *with conditions	<b>File #</b> <u>SAT-STA-20121203-00205</u>
	<b>Call Sign</b> <u>S2369</u> <b>Grant Date</b> <u>12/14/12</u> (or other identifier)
	<b>Term Dates</b> period of <b>From</b> <u>12/16/12</u> <b>To:</b> <u>30 days</u>
	<b>Approved:</b> <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch

2. Contact

<b>Name:</b>	William M. Wiltshire	<b>Phone Number:</b>	202-730-1350
<b>Company:</b>	Wiltshire & Grannis LLP	<b>Fax Number:</b>	202-730-1301
<b>Street:</b>	1200 18th Street NW	<b>E-Mail:</b>	wwiltshire@wiltshiregrannis.com
	Suite 1200		
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20036 -
<b>Attention:</b>	William M. Wiltshire	<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 SATSTA2012110900197 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    CRY – Space Station (Geostationary)

5. Type Request

- Change Station Location                       Extend Expiration Date                       Other

6. Temporary Orbit Location  
55.8 E.L.

7. Requested Extended Expiration Date

8. 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.)

DIRECTV herein requests Special Temporary Authority for 30 days starting December 16, 2012 to conduct in-orbit testing of DIRECTV 1R at the 55.8 E.L. orbital location in the 12.2-12.5 GHz downlink and the 17.3-17.8 GHz uplink frequencies.

9. 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.  Yes  No

10. Name of Person Signing  
Romulo Pontual

11. Title of Person Signing  
Executive Vice President

12. Please supply any need attachments.

Attachment 1: Narrative

Attachment 2:

Attachment 3:

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.**



December 3, 2012

**BY ELECTRONIC FILING**

Marlene H. Dortch  
Secretary  
Federal Communications Commission  
445 12<sup>th</sup> Street, S.W.  
Washington, DC 20554

Re: *Request for Special Temporary Authority for DIRECTV 1R In-Orbit Testing (Call Sign S2872)*

Dear Ms. Dortch:

DIRECTV Enterprises, LLC (“DIRECTV”) herein requests Special Temporary Authority (“STA”) for 30 days starting December 16, 2012 to conduct in-orbit testing of the DIRECTV 1R satellite at the 55.8° E.L. orbital location in the 12.2-12.5 GHz downlink and the 17.3-17.8 GHz uplink frequencies. The testing, which is not expected to last more than a few days, will be conducted in order to verify the antenna pointing and pattern in anticipation of the start of service at 55.8° E.L.<sup>1</sup>

As the Commission is aware, DIRECTV 1R currently is drifting to 55.8° E.L. under STA.<sup>2</sup> DIRECTV has a pending application to operate DIRECTV 1R as a U.S.-licensed space station at 55.8° E.L. in order to provide the Russian Satellite Communications Company (“RSCC”) continuity of service in light of the unexpected delay in RSCC’s ability to replace its aging Bonum 1 satellite that currently operates at the 56° E.L. orbital location (“Application”).<sup>3</sup>

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<sup>1</sup> DIRECTV is seeking STA for 30 days to accommodate a potential delay in the start of testing.

<sup>2</sup> See IBFS File Nos. SAT-STA-20120817-00138 and SAT-STA-20121109-00197.

<sup>3</sup> See IBFS File Nos. SAT-A/O-20120817-00137, SAT-AMD-20120824-00142, and SAT-AMD-20120913-00148.

**WILTSHIRE & GRANNIS LLP**

Marlene H. Dortch  
December 3, 2012  
Page 2 of 2

DIRECTV 1R is expected to be on station at 55.8° E.L. on or about December 8, 2012. Shortly after the satellite has arrived at this location, DIRECTV seeks to conduct a short in-orbit test of the satellite's communications frequencies in order to verify the antenna pointing and pattern. As routinely done, this testing is being coordinated with nearby operators to ensure that DIRECTV 1R's test transmissions are compatible with their operations.

In particular, the proposed testing will not cause interference into the NSS-12 satellite. In the Application proceeding, New Skies Satellites B.V. (doing business as "SES") questioned whether the satellite's proposed operations would be compatible with the adjacent NSS-12 satellite operated by SES.<sup>4</sup> SES's interference concerns specifically relate to the NSS-12 beam covering India and the DIRECTV 1R downlink EIRP toward this area. However, as evidenced by the attached downlink EIRP contour plots, the satellite's beams will be biased significantly to the West during testing (to communicate with an earth station located in Fucino, Italy), and thus isolation toward India will be several dB better than that associated with DIRECTV 1R's proposed commercial operations at 55.8° E.L. Accordingly, the interference concerns raised by SES in the Application proceeding are not implicated by this request.

Grant of this STA will serve the public interest because it will allow DIRECTV to verify the DIRECTV 1R antenna pointing and pattern prior to commencement of the commercial operations that are the subject of the pending Application. This, in turn, serves the public interest by ensuring continuity of service to Bonum 1 customers.

For the reasons set forth herein, DIRECTV respectfully requests that the Commission grant this STA request to allow the in-orbit testing of DIRECTV 1R at 55.8° E.L.

Respectfully submitted,

/s/

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William M. Wiltshire  
*Counsel for DIRECTV Enterprises, LLC*

Attachments

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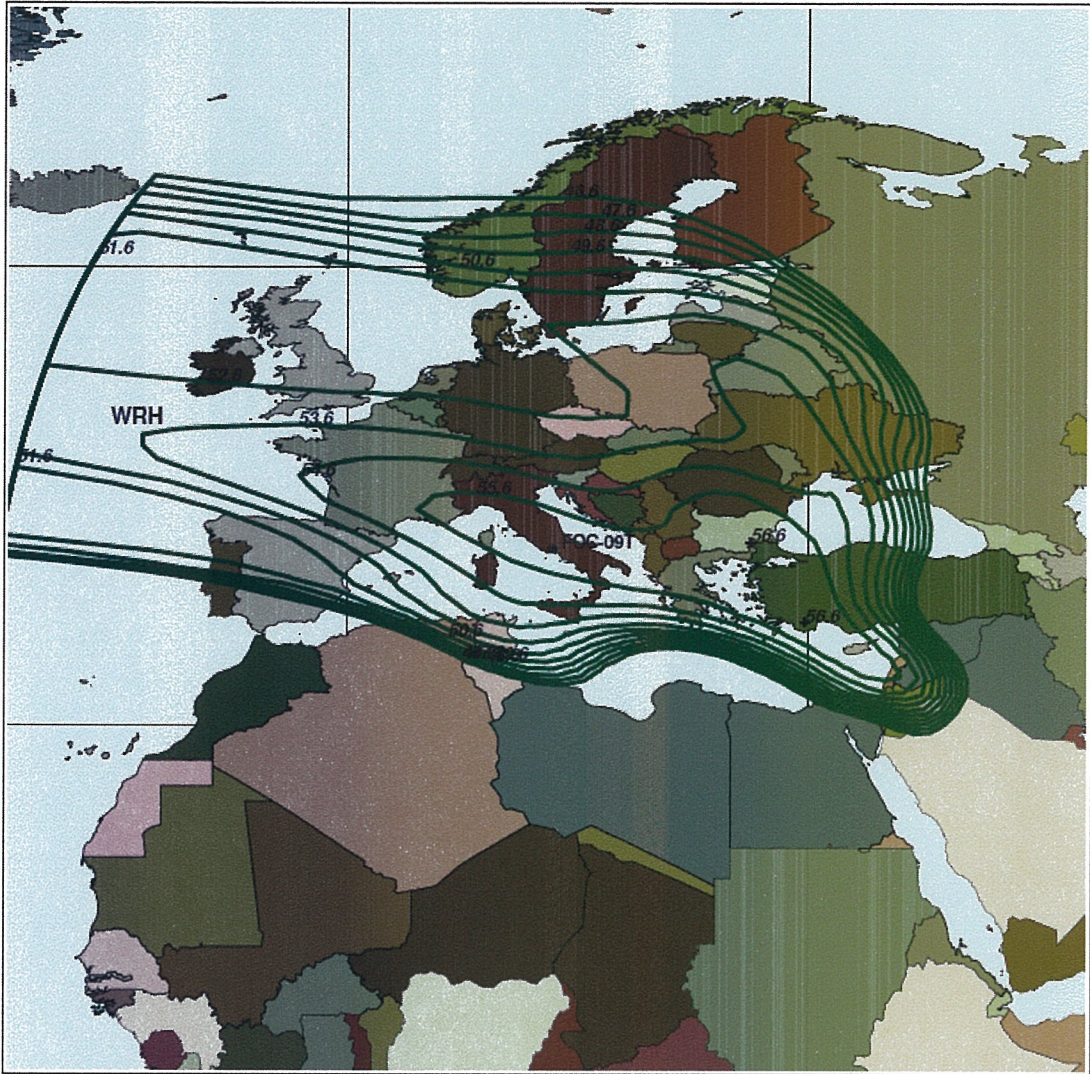
<sup>4</sup> See Comments of New Skies Satellites B.V., IBFS File Nos. SAT-A/O-20120817-00137, SAT-AMD-20120824-00142, and SAT-AMD-20120913-00148 (filed Oct. 31, 2012).

**DOWNLINK EIRP CONTOUR PLOT EAST ANTENNA**  
**Beam Polarization: Right and left Hand Circular**





**DOWNLINK EIRP CONTOUR PLOT WEST ANTENNA**  
**Beam Polarization: Right and Left Hand Circular**



December 13, 2012

**BY ELECTRONIC FILING**

Marlene H. Dortch  
Secretary  
Federal Communications Commission  
445 Twelfth Street, S.W.  
Washington, DC 20554

Re: *IBFS File No. SAT-STA-20121203-00205 (S2872)*

Dear Ms. Dortch:

This is to confirm that coordination of the in-orbit testing of the DIRECTV 1R satellite at the 55.8° E.L. orbital location has been completed with all affected operators.

Respectfully submitted,

/s/

William M. Wiltshire  
*Counsel to DIRECTV Enterprises, LLC*

cc: Robert Nelson  
Stephen Duall  
Andrea Kelly