

S2369 SAT-A/O-20120817-00137 IB2012001937  
DIRECTV Enterprises, LLC  
DIRECTV 1R



\*with conditions

File # SAT-A/O-20120817-00137  
Call Sign S2369 Grant Date 12/21/12  
(or other identifier)  
From 12/21/12 To: conditions  
Term Dates see conditions  
Approved: Stephen J. Duall  
Stephen J. Duall  
Chief, Satellite Policy Branch

see also  
SAT-AMD-20120824-00142  
SAT-AMD-20120913-00148

Approved by OMB  
3060-0678

Date & Time Filed: Aug 17 2012 4:01:09:993PM  
File Number: SAT-<sup>A/O</sup>LOA-20120817-00137  
Callsign/Satellite ID: S2872 S2369

APPLICATION FOR SATELLITE SPACE STATION AUTHORIZATIONS FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	FCC Use Only
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APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:  
SAT-OA-D1R

1-8. Legal Name of Applicant			
Name:	DIRECTV Enterprises, LLC	Phone Number:	301-663-0053
DBA Name:		Fax Number:	240-358-0569
Street:	2230 E. Imperial Hwy CA/LAI/N340	E-Mail:	jwengryniuk@directv.com
City:	El Segundo	State:	CA
Country:	USA	Zipcode:	90245 -
Attention:	Mr Jack M Wengryniuk		

**Attachment to Grant**  
**IBFS File Nos. SAT-A/O-20120817-00137, SAT-AMD-20120824-00142,**  
**& SAT-AMD-20120913-00148**  
**Call Sign S2369**

The application of DIRECTV Enterprises, LLC (DIRECTV), as amended, IBFS File Nos. SAT-A/O-20120817-00137, SAT-AMD-20120824-00142, and SAT-AMD-20120913-00148 is GRANTED.<sup>1</sup> Accordingly, DIRECTV is authorized to operate its DIRECTV 1R space station (S2369) at the 55.8° E.L. orbital location to provide Broadcasting-Satellite Service (BSS) in the 12.2-12.5 GHz (space-to-Earth) and to receive feederlinks in the 17.3-17.6 GHz (Earth-to-space) frequency bands.<sup>2</sup> In addition, DIRECTV is authorized to conduct Telemetry, Tracking, and Command (TT&C) operations necessary to maintain the DIRECTV 1R space station at the 55.8° E.L. orbital location using the following center frequencies: 17.305 GHz and 17.799 GHz (Earth-to-space); and 12.69825 GHz and 12.69925 GHz (space-to-Earth). Operations under this authorization must be in accordance with the technical parameters set forth in DIRECTV's application and the Commission's rules, and are subject to the following conditions.

1. All operations 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. In the event of any harmful interference to any other lawfully operating radiocommunication system, DIRECTV must cease operations immediately upon notification of such interference and must immediately inform the Commission, in writing, of such an event.
2. 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.
3. DIRECTV's request for waivers of Sections 25.114(d)(14)(ii) and 25.283(c) of the Commission's rules, 47 C.F.R. §§ 25.114(d)(14)(ii), 25.283(c), is granted. Sections 25.114(d)(14)(ii) and 25.283(c) specify that space stations must discharge all stored energy sources at end-of-life of the space station. DIRECTV 1R space station is a Boeing 601 model spacecraft and does not completely discharge all stored energy at end of life. DIRECTV states that residual helium pressurant will not be vented at the spacecraft's end of life because the tanks containing this pressurant were sealed shortly after the satellite's launch. Additionally, DIRECTV states that residual xenon propellant cannot be vented at the spacecraft's end of life because the spacecraft's ion propulsion system has failed. DIRECTV further states that each of the two helium pressurant tanks has a volume of approximately 4.3 liters, and that there is a total mass of 0.28 kg of helium in the tanks at end of life, and that each of the two xenon propellant tanks has a volume of approximately 3.25 liters with a total mass of 3.5775 kg and 3.5838 kg, respectively. The information submitted by DIRECTV is not sufficient to support a finding that the underlying purpose of Section 25.283(c) is served by sealing the pressurant tanks without completely venting them. Nevertheless, we grant DIRECTV a partial waiver of Sections 25.114(d)(14)(ii) and 25.283(c). DIRECTV 1R was launched before Section 25.283(c) was adopted. Furthermore, compliance with Section 25.283(c) would require direct retrieval of the spacecraft or launching a servicing mission to the spacecraft, which is not practicable at this time. This action is

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<sup>1</sup> The application and amendments were placed on Public Notice as accepted for filing on September 28, 2012. *See Policy Branch Information, Satellite Space Applications Accepted for Filing*, Public Notice, Report No. SAT-00901, (IBFS File Nos. SAT-A/O-20120817-00137, SAT-AMD-20120824-00142, and SAT-AMD-20120913-00148). In response to the Public Notice, comments were filed on October 31, 2012 by New Skies Satellites B.V. (New Skies). On November 11, 2012, DIRECTV filed a response to New Skies' comments. Also on November 11, the Russian Satellite Communications Company filed comments in response to New Skies' comments. On November 26, 2012, New Skies filed a reply to DIRECTV's response. On November 29, Intelsat License LLC filed comments in support of DIRECTV's application.


<sup>2</sup> DIRECTV's application originally proposed the 56.16° E.L. orbital location, but DIRECTV later amended its application to request the 55.8° E.L. orbital location. *See* IBFS File No. SAT-AMD-20120913-00148.

**Attachment to Grant**  
**IBFS File Nos. SAT-A/O-20120817-00137, SAT-AMD-20120824-00142,**  
**& SAT-AMD-20120913-00148**  
**Call Sign S2369**

without prejudice to future licensing decisions in connection with other spacecraft of the same manufacturing series.

4. Operations of the DIRECTV 1R space station at the 55.8° E.L. orbital location must conform to the operational agreement reached between DIRECTV and New Skies, dated December 20, 2012.
5. The United States remains the licensing administration of the DIRECTV 1R space station and its communications payloads for purposes of International Telecommunication Union (ITU) Radio Regulation 18.1 and is the administration responsible for the operations of DIRECTV 1R. The U.S. Administration will not object to use of the DIRECTV 1R satellite by the Russian Administration for claiming bringing into use or continuing the use of frequency assignments at 55.8° E.L. This grant does not in any way express a view concerning, or agreement as to, the validity or lack of validity of any ITU filing at or within the vicinity of the 55.8° E.L. orbital location.
6. In connection with the provision of service in any particular country, DIRECTV 1R is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country.
7. DIRECTV must maintain full operational control of DIRECTV 1R at all times.
8. Grant of this authorization does not convey to DIRECTV any authority to operate a space station at the 55.8° E.L orbital location beyond the term granted herein, nor any status in the United States satellite licensing process relative to applications for authority to operate a regularly authorized satellite at this orbital position.
9. The expiration date of the authorization for DIRECTV 1R is July 31, 2014.
10. DIRECTV is afforded 30 days from the date of release of this action to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.
11. 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. Petitions for reconsideration under Section 1.106 of the Commission's rules or applications for review under Section 1.115 of the Commission's rules, 47 C.F.R. §§ 1.106, 1.115, may be filed within 30 days of the public notice indicating that this action was taken.

SAT-A/O-20120817-00137  
SAT-AMD-20120824-00142  
**File #** SAT-AMD-20120913-00148

 <b>GRANTED*</b> International Bureau *with conditions	<b>Call Sign</b> <u>S2369</u> <b>Grant Date</b> <u>12/21/12</u>
	<b>(or other identifier)</b>
	<b>Term Dates</b> <u>see conditions</u>
	<b>From</b> <u>12/21/12</u> <b>To:</b> <u></u>
<b>Approved:</b> <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch	

9-16. Name of Contact Representative

Name:	William M. Wiltshire	Phone Number:	202-730-1350
Company:	Wiltshire & Grannis LLP	Fax Number:	202-730-1301
Street:	1200 18th Street NW	E-Mail:	wwiltshire@wiltshiregrannis.com
	Suite 1200		
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036 -
Attention:	William M. Wiltshire	Relationship:	Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

- a.  
 (N/A) a1. Earth Station  
 a2. Space Station

- b.  
 b1. Application for License of New Station  
 (N/A) b2. Application for Registration of New Domestic Receive-Only Station  
 (N/A) b3. Amendment to a Pending Application  
 (N/A) b4. Modification of License or Registration  
 (N/A) b5. Assignment of License or Registration  
 (N/A) b6. Transfer of Control of License or Registration  
 (N/A) b7. Notification of Minor Modification  
 (N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite  
  
 b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States  
 b10. Replacement Satellite Application - no new frequency bands  
 b11. Replacement Satellite Application - new frequency bands (Not eligible for streamlined processing)  
 b12. Petition for Declaratory Ruling to be Added to the Permitted List  
 (N/A) b13. Other (Please specify)

17c. 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):

17c. Fee Classification    BNY – Space Station (Geostationary)

18. If this filing is in reference to an existing station, enter:

(a) Call sign of station:

Not Applicable

19. If this filing is an amendment to a pending application enter:

(a) Date pending application was filed:

Not Applicable

(b) File number of pending application:

Not Applicable

TYPE OF SERVICE

<p>20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:</p> <p><input type="checkbox"/> a. Fixed Satellite</p> <p><input type="checkbox"/> b. Mobile Satellite</p> <p><input type="checkbox"/> c. Radiodetermination Satellite</p> <p><input type="checkbox"/> d. Earth Exploration Satellite</p> <p><input type="checkbox"/> e. Direct to Home Fixed Satellite</p> <p><input type="checkbox"/> f. Digital Audio Radio Service</p> <p><input checked="" type="checkbox"/> g. Other (please specify)      Direct Broadcast Satellite</p>	
<p>21. STATUS: Choose the button next to the applicable status. Choose only one.</p> <p><input type="radio"/> Common Carrier    <input checked="" type="radio"/> Non-Common Carrier</p>	<p>22. If earth station applicant, check all that apply.</p> <p>Not Applicable</p>
<p>23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:</p> <p><input type="radio"/> Connected to a Public Switched Network    <input type="radio"/> Not connected to a Public Switched Network    <input checked="" type="radio"/> N/A</p>	
<p>24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).</p> <p><input type="checkbox"/> a. C-Band (4/6 GHz)    <input type="checkbox"/> b. Ku-Band (12/14 GHz)</p> <p><input checked="" type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.)</p> <p>Frequency Lower: 122000      Frequency Upper: 178000      (Please specify additional frequencies in an attachment)</p>	

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.

- (N/A) a. Fixed Earth Station
- (N/A) b. Temporary-Fixed Earth Station
- (N/A) c. 12/14 GHz VSAT Network
- (N/A) d. Mobile Earth Station
- e. Geostationary Space Station.
- f. Non-Geostationary Space Station
- g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY: Not Applicable

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an "X" in the box(es) next to all that apply.) Not Applicable

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.  Yes  No

ALIEN OWNERSHIP

Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30-34.

29. Is the applicant a foreign government or the representative of any foreign government?

Yes  No

30. Is the applicant an alien or the representative of an alien?

Yes  No  N/A

31. Is the applicant a corporation organized under the laws of any foreign government?

Yes  No  N/A

32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

Yes  No  N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

Yes  No  N/A

34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.

**BASIC QUALIFICATIONS**



<p>35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Narrative</p>
<p>36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explanation of circumstances.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explanation of circumstances.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhibit, an explanation of the circumstances.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>

40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.

Exhibit A

41. 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

42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.

Yes  No

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?

43. Description. (Summarize the nature of the application and the services to be provided). (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 Enterprises, LLC hereby requests authorization to operate DIRECTV 1R, a satellite in the DBS service, at the nominal 56.16 E.L. location, where is will operate in accordance with the Russian Administration's ITU filings at that location to ensure continuity of service to DBS subscribers currently served by the Bonum 1 satellite.

43a. Geographic Service Rule Certification

By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.

A

By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.

B

By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.

C

Exhibit B

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applicable response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)      Limited Liability Company

45. Name of Person Signing  
Romulo Pontual

46. Title of Person Signing  
Executive Vice President

47. Please supply any need attachments.

1:

2:

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).

Completed Schedule S

**FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT**

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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.**

## **EXHIBIT A**

### **OWNERSHIP, DIRECTORS, AND OFFICERS**

#### **1. ENTITY OWNERSHIP**

Information relating to the stockholders that own of record and/or vote 10% or more of the stock of DIRECTV Enterprises, LLC (“DIRECTV Enterprises”) stock is as follows:

##### DIRECTV Enterprises, LLC

*State of Organization:* Delaware

*Principal Place of Business:* 2230 E. Imperial Highway  
El Segundo, CA 90245

*Primary Business Activities:* Provides digital television entertainment services.

*Principal Shareholders:*

DIRECTV Enterprises is an indirect wholly owned subsidiary of DIRECTV, a publicly traded Delaware corporation located at 2230 E. Imperial Highway, El Segundo, CA 90245.

##### DIRECTV

*State of Incorporation:* Delaware

*Principal Place of Business:* 2230 E. Imperial Highway  
El Segundo, CA 90245

*Primary Business Activities:* Provides digital television entertainment services.

*Principal Shareholders:* DIRECTV is a publicly traded company in which no shareholder is the beneficial owner of a 10% or greater interest.

#### **2. DIRECTORS**

Larry Hunter, a U.S. citizen, is the sole director of DIRECTV Enterprises. He can be contacted at the following address: DIRECTV Enterprises, LLC, 2230 E. Imperial Highway, El Segundo, CA 90245.

### 3. OFFICERS

The officers of DIRECTV Enterprises are listed below:

Michael D. White	President and Chief Executive Officer
Michael Benson	Executive Vice President and Chief Information Officer
Joseph A. Bosch	Executive Vice President
Derek Chang	Executive Vice President
Patrick T. Doyle	Executive Vice President and Chief Financial Officer
Paul Guyardo	Executive Vice President
Larry D. Hunter	Executive Vice President
Michael W. Palkovic	Executive Vice President
Romulo Pontual	Executive Vice President and Chief Technology Officer
David W. Baker	Senior Vice President
Bradley G. Bentley	Senior Vice President
Susan Eid	Senior Vice President
Jon Gieselman	Senior Vice President
Daniel Hartman	Senior Vice President
T. Warren Jackson	Senior Vice President
Paul James	Senior Vice President
Michael Krenik	Senior Vice President
Keith Landenberger	Senior Vice President and Assistant Secretary
J. William Little	Senior Vice President and Treasurer
Giles Lundberg	Senior Vice President
John F. Murphy	Senior Vice President, Controller and Chief Accounting Officer
Robin N. Rogers	Senior Vice President and General Counsel and Assistant Secretary
Jonathan Rubin	Senior Vice President
Linden Serbousek	Senior Vice President
April Ammeter	Assistant Secretary
Hilary Hatch	Assistant Secretary
Christopher Murphy	Assistant Secretary
Stevie Pyon	Assistant Secretary
Brian Regan	Assistant Secretary
Takehiko Suzuki	Assistant Secretary
Janet L. Williamson	Secretary

Each officer is a U.S. citizen and can be contacted at the following address: DIRECTV Enterprises, LLC, 2230 E. Imperial Highway, El Segundo, CA 90245.

**EXHIBIT B**

GEOGRAPHIC SERVICE REQUIREMENTS

Section 25.148(c) of the Commission's rules requires Direct Broadcast Satellite operators to provide service to Alaska and Hawaii where such service is technically feasible from the authorized orbital location, unless they can demonstrate either (1) that such service is not feasible as a technical matter, or (2) that, while technically feasible, such service would require so many compromises in satellite design and operation as to make it economically unreasonable.

As shown in Figure B-1 of Appendix B to the narrative application filed herewith, the portion of the Earth visible to DIRECTV 1R while operating at 56.16° E.L. does not include Alaska or Hawaii. Indeed, it reaches no closer to the United States than Japan and portions of China. It is therefore not technically feasible for the satellite to provide service in those states as a technical matter. Accordingly, DIRECTV submits that its operation of DIRECTV 1R at 56.16° E.L. should be excused from the geographic service requirements of Section 25.148(c).