

S2622 SAT-PPL-20130430-00064 IB2013000911
HISPASAT, S.A.
AMAZONAS-1



File # SAT-PPL-20130430-00064
Call Sign S2622 Grant Date 12/20/13
(or other identifier)
Term Dates see conditions
From 12/20/13 To: _____
Approved: Stephen J. Duall

Approved by OMB
3060-0678

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*with conditions

Stephen J. Duall
Chief, Satellite Policy Branch

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:
April 2013 - Market access for Amazonas-1 at 36WL

1-8. Legal Name of Applicant		
Name:	HISPASAT, S.A.	Phone Number: #34 917102540
DBA Name:		Fax Number: +34 913729000
Street:	Gobelas 41	E-Mail: vrubio@hispasat.es
City:	Madrid	State:
Country:	Spain	Zipcode: -
Attention:	Mr Vicente Rubio	

Addition to Permitted List in Conventional Ku Band


The petition of Hispasat, S.A. (Hispasat), IBFS File No. SAT-PPL-20130403-00064, to add the Amazonas-1 space station (Call Sign S2622) at the 36.0° W.L. orbital location to the Commission's Permitted Space Station List in conventional Ku-band frequencies, is GRANTED.¹ The operations of Amazonas-1 addressed by this grant are licensed by the Administration of Spain. Each U.S. earth station with "ALSAT" or "Permitted List" designated as a point of communication is authorized to access the Amazonas-1 space station at 36.0° W.L. to provide Fixed-Satellite Service in the 11.7-12.2 GHz (space-to-Earth) and 14.0-14.122 GHz (Earth-to-space) frequency bands to, from, or within the United States, subject to the parameters set forth in the earth station license. Communications between U.S.-licensed earth stations and the Amazonas-1 space station must be in accordance with the terms, conditions, and technical specifications contained in Hispasat's petition, the Federal Communications Commission's rules, and are subject to the following conditions:

1. This grant does not include provision of any Direct-to-Home (DTH) service to, from, or within the United States.
2. Communications between U.S.-licensed earth stations and the Amazonas-1 space station must be in compliance with all existing and future space station coordination agreements reached between Spain and other Administrations.
3. Amazonas-1 must be maintained with an east/west longitudinal station-keeping tolerance of ± 0.05 degrees of the 36.0° W.L. orbital location.
4. Operations using Amazonas-1 to or from the United States must comply with the power levels specified in Section 25.212 of the Commission's rules, 47 C.F.R. § 25.212, unless Hispasat coordinates any operations using power levels exceeding the levels in Section 25.212 with all potentially affected adjacent satellites within 6 degrees orbital separation of the 36° W.L. orbital location. Hispasat must inform the Commission of any coordinated power levels to be used within the United States that are higher than the limits in Section 25.212. In addition, Hispasat must inform all affected U.S.-licensed earth station operators that Section 25.220 of the Commission's rules, 47 C.F.R. § 25.220, applies to operations that exceed the power levels specified in Section 25.212.

¹ On August 19, 2013, Hispasat advised that Amazonas-1 would not, as stated in the application, provide Direct-to-Home services in the United States. See Electronic correspondence to Stephen Duall, Chief, Satellite Division Policy Branch, FCC from Vicente Rubio Carretón, Director del Área de Regulación, Hispasat S.A. (Aug. 19, 2013). This application was accepted for filing on Sept. 6, 2013. *Policy Branch Applications Accepted for Filing*, Public Notice, Report No. SAT-00969 (Sept. 6, 2013). No comments were filed.

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5. This grant of market access will terminate in the event that the Amazonas-1 space station is relocated from the 36.0° W.L. orbital location or ceases to operate. In either case, Amazonas-1 will be removed from the Permitted Space Station List. If Hispasat seeks to provide service to the United States using another space station or seeks to operate Amazonas-1 from another location, it must file a new petition for market access and to have the station placed on the Permitted List.
6. Hispasat is afforded thirty days from the date of this action to decline this grant as conditioned. Failure to respond within this period will constitute formal acceptance of the terms as conditioned.
7. This grant 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 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 this action was taken.

 GRANTED* International Bureau *with conditions	File # <u>SAT-PPL-20130430-00064</u>
	Call Sign <u>S2622</u> Grant Date <u>12/20/13</u> (or other identifier)
	Term Dates <u>see</u> From <u>12/20/13</u> To: <u>conditions</u>
	Approved: <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch

Grant of Market Access in Extended Ku Band

The petition of Hispasat, S.A. (Hispasat), IBFS File No. SAT-PPL-20130403-00064,¹ to access the U.S. market by the Amazonas-1 space station (Call Sign S2622) at the 36.0° W.L. orbital location in the 13.75-14.0 GHz (Earth-to-space) frequency band, is GRANTED. The operations of Amazonas-1 addressed by this grant are licensed by the Administration of Spain. Hispasat is granted U.S. market access to provide Fixed-Satellite Service via Amazonas-1 at 36.0° W.L. Communications between U.S.-licensed earth stations and the Amazonas-1 space station must be in accordance with the terms, conditions, and technical specifications contained in Hispasat's petition, the Federal Communications Commission's rules, and are subject to the following conditions:

1. This grant does not include provision of any Direct-to-Home (DTH) service to, from, or within the United States.
2. Communications between U.S.-licensed earth stations and the Amazonas-1 space station must be in compliance with all existing and future space station coordination agreements reached between Spain and other Administrations.
3. Amazonas-1 must be maintained with an east/west longitudinal station-keeping tolerance of ± 0.05 degrees of the 36° W.L. orbital location.
4. Any earth station seeking to communicate with Amazonas-1 using the 13.75-14.0 GHz frequencies must file a separate application with the Commission, which will be considered on a case-by-case basis.
5. Communications between U.S.-licensed earth stations and the Amazonas-1 space station in the 13.75-14.0 GHz band (Earth-to-space) are subject to footnote US337 of the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, US337, which requires any earth station in the United States and its possessions communicating with the Amazonas-1 space station in the 13.75-13.8 GHz band be coordinated through the National Telecommunications and Information Administration's (NTIA) Frequency Assignment Subcommittee to minimize harmful interference to the National Aeronautics and Space Administration (NASA) Tracking and Data Relay Satellite System's (TDRSS) forward space-to-space link (TDRSS forward link-to-LEO).
6. Communications between U.S.-licensed earth stations and the Amazonas-1 space station in the 13.75-14.0 GHz band (Earth-to-space) are subject to footnote US356 of the United States Table of Frequency Allocations, 47 C.F.R. § 2.106, US356, which specifies a mandatory minimum antenna diameter of 4.5 meters and a non-mandatory minimum and maximum equivalent isotropically radiated power (EIRP). Operations of any earth station located

¹ This application was accepted for filing on Sept. 6, 2013. *Policy Branch Applications Accepted for Filing*, Public Notice, Report No. SAT-00969 (Sept. 6, 2013). No comments were filed.

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outside of the United States and its possessions communicating with the Amazonas-1 space station in the 13.75-14.0 GHz band (Earth-to-space) to provide service to the United States must be consistent with footnote 5.502 to the International Telecommunication Union (ITU) Radio Regulations, which allows a minimum antenna diameter of 1.2 meters for earth stations of a geostationary satellite orbit network and specifies mandatory power limits. In the 13.75-14.0 GHz frequency band (Earth-to-space), receiving space stations in the fixed-satellite service must not claim protection from radiolocation transmitting stations operating in accordance with the United States Table of Frequency Allocations.

7. Operations of earth stations in the United States and its possessions communicating with the Amazonas-1 space station in the 13.75-14.0 GHz frequency band (Earth-to-space) are encouraged to cooperate voluntarily with NASA to facilitate continued operation of NASA's Tropical Rainfall Measuring Mission (TRMM) satellite.²
8. Operations of any earth station in the United States and its possessions communicating with the Amazonas-1 space station in the 13.75-14.0 GHz band (Earth-to-space) must comply with footnote US357 to the United States Table of Frequency Allocations, 47 C.F.R. 2.106, US357, which specifies that the EIRP density of emissions must not exceed 71 dBW in any 6 MHz band for communications with a space station in geostationary-satellite orbit. Operations of any earth station located outside of the United States and its possessions communicating with the Amazonas-1 space station in the 13.77-13.78 GHz band (Earth-to-space) to provide service to or from the United States must comply with footnote 5.503 to the ITU Radio Regulations, which specifies a required maximum EIRP density of emissions (limit is dependent on antenna diameter) for communications with a space station in geostationary-satellite orbit.
9. This grant of market access will terminate in the event that the Amazonas-1 space station is relocated from the 36.0° W.L. orbital location or ceases to operate. In either case, its grant of market access for the 13.75-14.0 GHz band will be revoked. If Hispasat seeks to provide service to the United States using another space station or seeks to operate Amazonas-1 from another location, it must file a new petition for market access.

² NASA's TRMM satellite system radar in the 13.793-13.805 GHz band remains operational and is a highly valuable and visible United States asset with a broad range of international users. Accordingly, NTIA has requested cooperation from the Commission and non-Federal Government entities in providing assistance in reducing interference with the TRMM radar. Specifically, NTIA requests that FSS earth stations in the 13.793-13.805 GHz band located south of 39° N and east of 110° W operate with emission levels below -150 dBW/600 kHz at the TRMM space station receiver. Letter from Frederick R. Wentland, Acting Associate Administrator, Office of Spectrum Management, NTIA, to Donald Abelson, Chief, International Bureau, FCC (Feb. 28, 2002). Considering the secondary nature of the TRMM operation, NTIA's request is not a condition of this authorization. The Commission, however, urges all operators of earth stations accessing the Amazonas-1 space station in the 13.75-14.0 GHz band to cooperate voluntarily with NASA to facilitate cooperate voluntarily with NASA to facilitate continued operation of the TRMM satellite.

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10. Hispasat is afforded thirty days from the date of this action to decline this grant as conditioned. Failure to respond within this period will constitute formal acceptance of the terms as conditioned.
11. This grant 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 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 this action was taken.



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Term Dates see
From 12/20/13 To: conditions

Approved: Stephen J. Dwall
Stephen J. Dwall
Chief, Satellite Policy Branch

9-16. Name of Contact Representative			
Name:	Vicente Rubio	Phone Number:	+34 917102540
Company:	HISPASAT, S.A.	Fax Number:	+34 913729000
Street:	Gobelas 41	E-Mail:	vrubio@hispasat.es
City:	Madrid	State:	
Country:	Spain	Zipcode:	28023 -
Attention:		Relationship:	Same

CLASSIFICATION OF FILING

<p>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.</p> <p>a.</p> <p>(N/A) a1. Earth Station</p> <p><input checked="" type="radio"/> a2. Space Station</p>	<p>b.</p> <p><input checked="" type="radio"/> b1. Application for License of New Station</p> <p>(N/A) b2. Application for Registration of New Domestic Receive-Only Station</p> <p>(N/A) b3. Amendment to a Pending Application</p> <p>(N/A) b4. Modification of License or Registration</p> <p>(N/A) b5. Assignment of License or Registration</p> <p>(N/A) b6. Transfer of Control of License or Registration</p> <p>(N/A) b7. Notification of Minor Modification</p> <p>(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite</p> <p><input type="radio"/> b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States</p> <p><input type="radio"/> b10. Replacement Satellite Application - no new frequency bands</p> <p><input type="radio"/> b11. Replacement Satellite Application - new frequency bands (Not eligible for streamlined processing)</p> <p><input checked="" type="radio"/> b12. Petition for Declaratory Ruling to be Added to the Permitted List</p> <p>(N/A) b13. Other (Please specify)</p>
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<p>17c. Is a fee submitted with this application?</p> <p><input type="radio"/> If Yes, complete and attach FCC Form 159.</p> <p>If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).</p> <p><input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee</p> <p><input checked="" type="radio"/> Other (please explain): Permitted Space Station List and market access petition</p>		
<p>17c. Fee Classification</p>		
<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station: Not Applicable</p>		
<p>19. If this filing is an amendment to a pending application enter:</p> <table><tr><td>(a) Date pending application was filed: Not Applicable</td><td>(b) File number of pending application: Not Applicable</td></tr></table>	(a) Date pending application was filed: Not Applicable	(b) File number of pending application: Not Applicable
(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 checked="" 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 type="checkbox"/> g. Other (please specify)</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 checked="" 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: Frequency Upper: (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?	<input type="radio"/> Yes <input checked="" type="radio"/> No
30. Is the applicant an alien or the representative of an alien?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> 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?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> 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?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> 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.	Exhibit A

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>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<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>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<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>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<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>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<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>	<input type="radio"/> Yes <input checked="" type="radio"/> No

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 B

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? Spain

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.)

Petitioner seeks to add the Amazonas-1 satellite at 36.

Narrative

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

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.

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 0.25 – 24 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD–PERM, Paperwork Reduction Project (3060–0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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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.