

Approved by OMB  
3060-0678

Date & Time Filed: Jun 28 2007 4:01:41:650PM  
File Number: SAT-MOD-20070628-00090

**S2423**

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM	FCC Use Only
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	

**APPLICANT INFORMATION**

Enter a description of this application to identify it on the main menu:  
Modification Application to Relocate Horizons 2 from 74.0 W.L. to 74.05 W.L.

1-8. Legal Name of Applicant			
<b>Name:</b>	PanAmSat H-2 Licensee Corp.	<b>Phone Number:</b>	202-944-7848
<b>DBA Name:</b>		<b>Fax Number:</b>	202-944-7860
<b>Street:</b>	3400 International Drive, N.W.	<b>E-Mail:</b>	susan.crandall@intelsat.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20008 -3006
<b>Attention:</b>	Susan H. Crandall		

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File # SAT-MOD-2007062800090

Call Sign S2423 Grant Date 4/30/07  
(or other identifier)

Term Dates  
From LOA To 15 years

By [Signature]  
Policy Branch Chief

*w/conditions*

**Attachment**  
**Conditions of Authorization**  
**IBFS File Nos. SAT-MOD-20070628-00090, SAT-AMD-20070731-00108, and**  
**SAT-STA-20071029-00147**  
**PanAmSat Horizons 2**  
**Call Sign: S2423**  
**November 30, 2007**

PanAmSat H-2 Licensee Corp.'s (PanAmSat)'s request to modify its authorization to launch and operate a Ku-band satellite, Horizons 2,<sup>1</sup> IBFS File No. SAT-MOD-20070628-00090 as amended by File No. SAT-AMD-20070731-00108 (Call Sign: S2423), to be located at the 74.05° W.L. orbital location IS GRANTED. Accordingly, PanAmSat is authorized to provide Fixed Satellite Services (FSS) in the 11.7-12.2 GHz (space to Earth) and 14.0-14.5 (Earth to space) frequency bands using the Horizons 2 satellite at the 74.05° W.L orbital location, in accordance with the technical specifications set forth in its application, this Attachment, and the Commission's Rules and subject to the following conditions:

1. PanAmSat shall operate the Horizons 2 satellite at the 74.05° W.L orbital location in compliance with all existing or future coordination agreements for that location.

2. PanAmSat shall prepare the necessary information, as may be required, for submission to the International Telecommunication Union (ITU) to initiate and complete the advance publication, international coordination, due diligence, and notification process of this space station, in accordance with the ITU Radio Regulations. PanAmSat shall be held responsible for all cost-recovery fees associated with these ITU filings. We also note that no protection from interference caused by radio stations authorized by other administrations is guaranteed unless coordination and notification procedures are timely completed or, with respect to individual administrations, by successfully completing coordination agreements. Any radio station authorization for which coordination has not been completed may be subject to additional terms and conditions as required to effect coordination of the frequency assignments of other administrations. See 47 C.F.R. §25.111(b).

3. Horizons 2 must begin providing service at the 74.05° W.L orbital location on the Ku-bands before the satellites it is replacing discontinues service at the 74.05° W.L orbital location.<sup>2</sup> Failure to meet this milestone date shall render this authorization null and void.

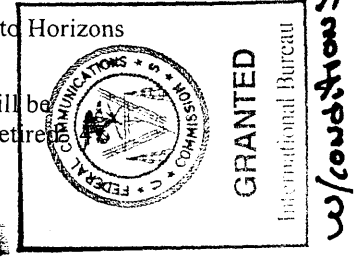
4. PanAmSat's request for waiver of Section 25.114(d)(3) of the Commission's Rules is

File #s  
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 Approved: *[Signature]*  
 Policy Branch Chief

<sup>1</sup> As part of its modification request, PanAmSat changed the name of the satellite from SBS-6R to Horizons 2.

<sup>2</sup> Among other things, a replacement satellite is one that is scheduled to be launched so that it will be brought into use at approximately the same time as, but no later than, the existing satellites are retired. C.F.R. § 25.165(e)(2).



rules, 47 C.F.R. § 25.114(d)(3), IS GRANTED. Section 25.114(d)(3) requires predicted space station antenna gain contour(s) for each transmit and each receive antenna beam and nominal orbital location requested. PanAmSat's application indicates that the Omni Antenna diagrams (Exhibits 6H, 6I, 6K, and 6L) were not prepared in accordance with the parameters specified in Section 25.114(d)(3) of the Commission's Rules because the satellite manufacturer did not provide contours in the required form since pointing of the omni antennas with respect to the Earth will vary during emergency situations. Similarly, PanAmSat's application indicates that the ULPC global horn antenna diagram (Exhibit 6M) was not prepared in accordance with the parameters specified in Section 25.114(d)(3) of the Commission's Rules because the satellite manufacturer did not provide contours in the required form. Under these specific circumstances, we find that Exhibits 6H, 6I, 6K, 6L, and 6M, together with the descriptive characterization provided in Sections 2.7.1 and 2.8 of the application,<sup>3</sup> respectively, fulfill the requirements of Section 25.114(d)(3). Grant of this waiver request is consistent with our precedent.<sup>4</sup>

5. PanAmSat's request for a partial waiver of Section 25.283(c) of the Commission's rules, 47 C.F.R. 25.283(c), IS GRANTED. Section 25.283(c) specifies that space stations must discharge all stored energy sources at end-of-life of the space station. PanAmSat indicates that due to its design, Horizon 2's oxidizer tanks cannot be completely depleted but will retain approximately 13 kilograms of the oxidizer (less than a 3% fill fraction) after the oxidizer tanks are isolated from the Liquid Apogee Motor (LAE) and Dual Mode Thrusters (DMTs) immediately following the last orbit-raising maneuver. This waiver is granted because modification of the spacecraft would present an undue hardship, given the late stage of satellite construction. In making this determination, we note that, the information submitted in the application is not sufficient to support a finding that the intent of the rule would be satisfied by the described procedure for sealing the oxidizer tank.<sup>5</sup>

6. The license term for the space station is 15 years and will begin on the date PanAmSat certifies to the Commission that the satellite has been successfully placed into orbit and its operation fully conforms to the terms and conditions of this authorization. PanAmSat shall file its certification with the Chief, Satellite Division, International Bureau within 5 business days of the satellite being placed into operation at the 74.05° W.L. orbital location.

7. PanAmSat is afforded thirty days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this

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<sup>3</sup> See PanAmSat H-2 Licensee Corp. application for modification of authorization to launch and operate its Horizons-2 satellite (Call Sign: S2423) at 74.5° W.L, SAT-MOD-20070628-00090, Engineering Statement at 10-11, 13.

<sup>4</sup> See SES Americom, Inc., Application for Modification of Space Station Authorization, DA 04-1581, *Order and Authorization*, 19 FCC Rcd. 20,377, 20,378-79 (paras. 4-8) (Int'l Bur., Sat. Div. 2004) (finding that the main purpose of the contour map is to allow evaluation of the potential for harmful interference with other operators and services in the frequency band).

<sup>5</sup> We note that the manufacturer of the Horizons 2 satellite has indicated that changes to its spacecraft design will allow its future satellites to be fully compliant with the requirements of Section 25.283(c), 47 C.F.R. 25.283(c).

period will constitute formal acceptance of the authorization as conditioned.

8. PanAmSat's Licensee Corp.'s request for special temporary authority to conduct in-orbit testing of Horizons 2 at the 67.5° W.L. orbital location for a period of 60 days prior to Horizon 2's installation at the 74.05° W.L. orbital location, File No. SAT-STA-20071029-00147, IS GRANTED. Accordingly, PanAmSat H-2 Licensee Corp. is authorized to conduct space station Telemetry, Tracking, and Control operations on Horizons 2 necessary to effect operation at the 67.5° W.L. orbital location in the 11.7-12.2 GHz (space to Earth) and 14.0-14.5 (Earth to space) frequency bands from December 26, 2007 to February 23, 2007, subject to the following conditions:

a. All operations shall be on an unprotected and non-harmful interference basis, *i.e.*, PanAmSat shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radiocommunication system.

b. In the event of any harmful interference as a result of PanAmSat's operations at the 67.5° W.L. orbital location, PanAmSat shall cease operations immediately upon notification of such interference and shall inform the FCC, in writing, immediately of such an event.

c. While at the 67.5° W.L. orbital location, PanAmSat shall maintain the Horizons 2 spacecraft with an east/west longitudinal station-keeping tolerance of 0.05 degrees.

d. Any actions taken as a result of the launch and operation of Horizons 2 are solely at PanAmSat's own risk.

9. These actions are issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and are effective upon grant. 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 date of the public notice indicating that these actions were taken.

**Attachment**  
**Conditions of Authorization**  
**IBFS File Nos. SAT-MOD-20070628-00090, SAT-AMD-20070731-00108, and**  
**SAT-STA-20071029-00147**  
**PanAmSat Horizons 2**  
**Call Sign: S2423**  
**November 30, 2007**

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Grant Date 11/30/07  
Term Dates  
From  
To  
Approved: *[Signature]* Policy Branch Chief



**GRANTED**  
International Bureau  
w/conditions

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6. The license term for the space station is 15 years and will begin on the date PanAmSat certifies to the Commission that the satellite has been successfully placed into orbit and its operation fully conforms to the terms and conditions of this authorization. PanAmSat shall file its certification with the Chief, Satellite Division, International Bureau within 5 business days of the satellite being placed into operation at the 74.05° W.L. orbital location.

7. PanAmSat is afforded thirty days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this

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- c. While at the 67.5° W.L. orbital location, PanAmSat shall maintain the Horizons 2 spacecraft with an east/west longitudinal station-keeping tolerance of 0.05 degrees.
- d. Any actions taken as a result of the launch and operation of Horizons 2 are solely at PanAmSat's own risk.

9. These actions are issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and are effective upon grant. 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 date of the public notice indicating that these actions were taken.

9-16. Name of Contact Representative

<b>Name:</b>	PanAmSat Licensee Corp.	<b>Phone Number:</b>	202-944-7848
<b>Company:</b>		<b>Fax Number:</b>	202-944-7870
<b>Street:</b>	3400 International Drive, N.W.	<b>E-Mail:</b>	susan.crandall@intelsat.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20008-3006
<b>Attention:</b>	Susan H. Crandall	<b>Relationship:</b>	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.

- a1. Earth Station
- a2. Space Station

- (N/A) b1. Application for License of New Station
- (N/A) b2. Application for Registration of New Domestic Receive-Only Station
- b3. Amendment to a Pending Application
- b4. Modification of License or Registration
- b5. Assignment of License or Registration
- b6. Transfer of Control of License or Registration
- b7. Notification of Minor Modification
- (N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite
- (N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States
- (N/A) b10. Other (Please specify)
- (N/A) b11. Application for Earth Station to Access a Non-U.S. satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States
- (N/A) b12. Application for Database Entry
- b13. Amendment to a Pending Database Entry Application
- b14. Modification of Database Entry



<p>17c. Is a fee submitted with this application?</p> <p><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).</p> <p><input type="radio"/> Governmental Entity    <input type="radio"/> Noncommercial educational licensee</p> <p><input type="radio"/> Other (please explain):</p>	
<p>17d.</p> <p>Fee Classification BFY – Space Station Modification (Geostationary)</p>	
<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station: S2423</p>	<p>19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number:</p> <p>(a) Date pending application was filed:                      (b) File number: SATLOA2000092900137</p>

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><input type="checkbox"/> Using U.S. licensed satellites</p> <p><input type="checkbox"/> Using Non-U.S. licensed satellites</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 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.

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

26. TYPE OF EARTH STATION FACILITY:

- Transmit/Receive     Transmit-Only     Receive-Only     N/A

"For Space Station applications, select N/A."

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)

- a — authorization to add new emission designator and related service
- b — authorization to change emission designator and related service
- c — authorization to increase EIRP and EIRP density
- d — authorization to replace antenna
- e — authorization to add antenna
- f — authorization to relocate fixed station
- g — authorization to change frequency(ies)
- h — authorization to add frequency
- i — authorization to add Points of Communication (satellites & countries)
- j — authorization to change Points of Communication (satellites & countries)
- k — authorization for facilities for which environmental assessment and radiation hazard reporting is required
- l — authorization to change orbit location
- m — authorization to perform fleet management
- n — authorization to extend milestones
- o — Other (Please specify)

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.	<input type="radio"/> Yes <input checked="" type="radio"/> No
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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 type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	<input type="radio"/> Yes <input checked="" 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 type="radio"/> Yes <input checked="" 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?  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

35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules?  Yes  No  
If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.

Technical Exhibit

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.  Yes  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>	<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>
<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.</p>	

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.)

PanAmSat H-2 Licensee Corp. herein requests modification of its current authorization for its Horizons 2 satellite to operate at 74.05 W.L. instead of 74.0 W.L. and to make technical changes to the satellite and its operating parameters.

Attachment 1



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.

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

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

45. Name of Person Signing  
Susan H. Crandall

46. Title of Person Signing  
Asst. Gen. Counsel, Intelsat Corporation

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