



File # SAT-STA-20100603-00122

Call Sign S2422 Grant Date 08/04/10

(or other identifier) Term Dates period of 180 days

From 08/08/10 To: \_\_\_\_\_

Approved: Stephen J. Duall

Stephen J. Duall  
Chief, Satellite Policy Branch

Approved by OMB  
3060-0678

Date & Time Filed: Jun 3 2010 3:35:31:883PM  
File Number: SAT-STA-20100603-00122  
Callsign:

\*with conditions

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:

Request for 180-Day Special Temporary Authority to Operate Galaxy 12, Call Sign S2422

1. Applicant

<b>Name:</b>	PanAmSat Licensee Corp.	<b>Phone Number:</b>	202-944-7848
<b>DBA Name:</b>		<b>Fax Number:</b>	202-944-7870
<b>Street:</b>	c/o Intelsat Corporation 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		

**Attachment to Grant**  
**PanAmSat Licensee Corp.**  
**IBFS File No. SAT–STA–20100603–00122**  
**Call Sign: S2422**  
**August 4, 2010**

The request of PanAmSat Licensee Corp. (PanAmSat) for special temporary authority, IBFS File No. SAT–STA–20100603–00122, is granted.<sup>1</sup> Accordingly, PanAmSat is authorized, for a period of 180 days commencing on August 8, 2010, to continue to conduct Telemetry, Tracking, and Command (TT&C) operations with the Galaxy 12 space station (Call Sign S2422) at the 133.0° W.L. orbital location, using the following frequencies: 6424.5 MHz (right-hand circular polarization/Earth-to-space) and 6424.5 MHz (vertical polarization/Earth-to-space); 4198 MHz (left-hand circular polarization/space-to-Earth) and 4198 MHz (horizontal polarization/space-to-Earth); 4199.875 MHz (left-hand circular polarization/space-to-Earth) and 4199.875 MHz (vertical polarization/space-to-Earth). Additionally, PanAmSat is authorized to continue to operate the Galaxy 12 space station in the 3700–4200 MHz (space-to-Earth) and 5925–6425 MHz (Earth-to-space) frequencies to provide fixed-satellite service (FSS) from the 133.0° W.L. orbital location. This authorization shall be in accordance with the technical specifications set forth in PanAmSat's application, Federal Communication Commission (Commission) rules, and the following conditions:

1. PanAmSat's operations at the 133.0° W.L. orbital location shall be on a non-harmful interference basis, i.e., PanAmSat shall not cause harmful interference to, and shall not claim protection from interference cause to it by, any other lawfully operating space station.
2. In the event of any harmful interference during PanAmSat's operations at the 133.0° W.L. orbital location, PanAmSat shall cease operations immediately upon notification of such interference, and shall inform the Commission, in writing, immediately of such an event.
3. PanAmSat shall operate the Galaxy 12 satellite at the 133.0° W.L. orbital location in compliance with all existing coordination agreements.
4. While at the 133.0° W.L. orbital location, PanAmSat shall maintain the Galaxy 12 spacecraft with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
5. PanAmSat shall maintain full operational control of the Galaxy 12 space station at all times.
6. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at PanAmSat's own risk.

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<sup>1</sup> PanAmSat is currently operating Galaxy 12 under special temporary authority, IBFS File No. SAT-STA-20100603-00121 (grant stamp, dated June 9, 2010), that allows Galaxy 12 to operate at the 133.0° W.L. orbital location for a period of 60 days, commencing on June 9, 2010. PanAmSat has a pending application to modify the permanent authorization for Galaxy 12 in order to operate Galaxy 12 at the 129.0° W.L. orbital location on a long-term basis, IBFS File No. SAT–MOD–20100120–00013, and a subsequent amendment to that application to change the proposed orbital location to the 133.0° W.L. orbital location, IBFS File No. SAT–AMD–20100514–00102.


**Attachment to Grant  
PanAmSat License Corp.  
IBFS File No. SAT-STA-20100603-00122**

**Call Sign: S2422  
August 4, 2010**

7. PanAmSat's request for continued waiver of Section 25.283(c) of the Commission's rules, 47 C.F.R. 25.283(c), is granted for the reasons stated in the original grant of waiver. See IBFS File No. SAT-MOD-20080630-00133 (granted Sept. 2, 2008).

8. Grant of this authorization is without prejudice to any determination that the Commission may make regarding PanAmSat's pending application to modify the permanent authorization of the Galaxy 12 space station in order to re-locate it to the 129.0° W.L. orbital location (IBFS File No. SAT-MOD-20100120-00013) and subsequent amendment to that application to change the proposed orbital location to the 133° W.L. orbital location (IBFS File No. SAT-AMD-20100514-00102).

9. 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>File #</b> <u>SAT-STA-20100603-00122</u>	
<b>Call Sign</b> <u>S2422</u>	<b>Grant Date</b> <u>08/04/10</u>
<b>(or other identifier)</b>	
<b>From</b> <u>08/08/10</u>	<b>Term Dates</b> <b>Period of</b>
	<b>To:</b> <u>180 days</u>
<b>Approved:</b> <u><i>Stephen J. Duall</i></u>	
	<u>Stephen J. Duall</u>
	Chief, Satellite Policy Branch
<b>GRANTED</b> ★	
International Bureau	
★ with conditions ★	

2. Contact

<b>Name:</b>	Susan H. Crandall	<b>Phone Number:</b>	202-944-7848
<b>Company:</b>	c/o Intelsat Corporation	<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

(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 SATAMD2010051400102 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

7. Requested Extended Expiration Date

2011-02-03 00:00:00.0

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.)

PanAmSat Licensee Corp. herein requests a grant of Special Temporary Authority for 180 days, from August 8, 2010 through February 3, 2011, to operate Galaxy 12 (call sign S2422) at 133.0 W.L.

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  
Susan H. Crandall

11. Title of Person Signing  
Asst. General Counsel, Intelsat Corporation

12. Please supply any need attachments.

Attachment 1: STA Request

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.**

June 3, 2010

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



Re: Request for 180-Day Special Temporary Authority to Operate Galaxy  
12 at 133.0° W.L.  
Call Sign S2422

Dear Ms. Dortch:

PanAmSat Licensee Corp. (“PanAmSat”) herein requests a grant of Special Temporary Authority (“STA”)<sup>1</sup> for 180 days—from August 8, 2010 through February 3, 2011—to operate Galaxy 12 (call sign S2422) at 133.0° W.L.

Galaxy 12 is currently licensed to operate at 122.9° W.L.,<sup>2</sup> but has been operating at 133.0° W.L. pursuant to two grants of STA following a technical anomaly on Galaxy 15 (call sign S2387).<sup>3</sup> As the Commission is aware, PanAmSat sought STA to use Galaxy 12 to replace Galaxy 15 at the nominal 133.0° W.L. orbital location.<sup>4</sup> PanAmSat has a pending application for permanent authority to redeploy Galaxy 12 to 133.0° W.L.<sup>5</sup> PanAmSat is

<sup>1</sup> Intelsat has filed this STA request, an FCC Form 159 and an \$830.00 filing fee electronically via the International Bureau’s Filing System.

<sup>2</sup> See *Policy Branch Information: Actions Taken*, Report No. SAT-00553, File No. SAT-MOD-20080630 (Sept. 5, 2008) (Public Notice).

<sup>3</sup> See *Policy Branch Information: Actions Taken*, Report No. SAT-00682, File No. SAT-STA-20100408-0070 (Apr. 16, 2010) (Public Notice); *Policy Branch Information: Actions Taken*, Report No. SAT-00690, File No. SAT-STA-20100430-00089 (May 14, 2010) (Public Notice).

<sup>4</sup> See *PanAmSat Licensee Corp. Request for Special Temporary Authority to Drift and Operate Galaxy 12*, Call Sign S2422, File No. SAT-STA-20100408-00070 (filed Apr. 8, 2010) (grant stamped with conditions Apr. 8, 2010); *PanAmSat Licensee Corp. Request for Extension of Special Temporary Authority to Drift and Operate Galaxy 12*, Call Sign S2422, File No. SAT-STA-20100430-00089 (filed Apr. 30, 2010) (grant stamped with conditions May 11, 2010).

<sup>5</sup> See *PanAmSat Licensee Corp. Modification of Authorization for Galaxy 12 to 129.0° W.L. (S2422)*, File No. SAT-MOD-20100120-00013 (filed Jan. 20, 2010); *PanAmSat Licensee Corp. Amendment to Application to Modify Authorization for Galaxy 12 (S2422) for 133 W.L.*, File No. SAT-AMID-20100514-00102 (filed May 14, 2010).

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June 3, 2010  
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simultaneously filing a request for STA to operate Galaxy 12 at 133.0° W.L. for 60 days from June 9, 2010 through August 7, 2010.

From the 133.0° W.L. orbital location, Galaxy 12 will utilize the 5925 – 6425 MHz and 3700 – 4200 MHz frequency bands. The specific TT&C frequencies at 133.0° W.L. are as follows:

Uplink:

6424.5 MHz (RHCP), (V)

Downlink:

4198 MHz (LHCP), (H)  
4199.875 MHz (LHCP), (V)<sup>6</sup>

PanAmSat requests that the waiver of Section 25.283(c) of the Commission's rules previously granted to the Galaxy 12 spacecraft continue to apply at the 133.0° W.L. location.<sup>7</sup> Section 25.283(c) of the Commission's rules requires an applicant to demonstrate that all stored energy will be vented at the spacecraft's end of life.<sup>8</sup>

Grant of this STA is in the public interest because it will allow PanAmSat to ensure continuity of service to customers despite the technical anomaly on Galaxy 15. Galaxy 12 customers have not and will not experience service degradation or be otherwise harmed by the satellite's operation at 133.0° W.L. Grant of the STA also will serve the public interest by affording the Commission time to complete its review of PanAmSat's pending application to relocate Galaxy 12 to, and operate at, 133.0° W.L. PanAmSat understands and accepts that grant of this STA request would not prejudice the Commission's determination of PanAmSat's request to operate Galaxy 12 at 133.0° W.L. on a

<sup>6</sup> When Galaxy 12 operated at 133.3° W.L., the polarization was reversed for both the uplink and downlink TT&C frequencies. Thus, the uplink frequency is now operating in vertical polarization; the downlink frequencies in horizontal polarization.

<sup>7</sup> See *PanAmSat Licensee Corp., Modification of Authorization for Galaxy 12 to 122.9 W.L.*, File No. SAT-MOD-20080630-00133, condition 3 (stamp grant, Sept. 2, 2008).

<sup>8</sup> 47 C.F.R. § 25.283(c).



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permanent basis, and operation of the satellite at that location pursuant to STA is at PanAmSat's risk.

Grant of this STA request will not result in increased risk of harmful interference. PanAmSat will continue operating the satellite's communications payload at 133.0° W.L. in conformance with its sister company Intelsat's coordination agreements related to the 133.0° W.L. orbital location.

PanAmSat has assessed and limited the probability of the space station becoming a source of debris as a result of collision with large debris or other operational space stations. At 133.0° W.L., Galaxy 12 will not be located at the same orbital location as another satellite or at an orbital location that has an overlapping station-keeping volume with another satellite. Further, PanAmSat is not aware of any other FCC licensed system, or any other system applied for and under consideration by the FCC, having an overlapping station-keeping volume with Galaxy 12 at 133.0° W.L. Finally, PanAmSat is not aware of any system with an overlapping station-keeping volume with Galaxy 12 at 133.0° W.L. that is the subject of an ITU filing and that is either in orbit or progressing towards launch.

For the reasons set forth herein, PanAmSat respectfully requests that the Commission grant this STA request.

Sincerely,

*/s/ Susan H. Crandall*

Susan H. Crandall  
Assistant General Counsel  
Intelsat Corporation

cc: Robert Nelson  
Kathryn Medley  
Stephen Duall