



\*subject to conditions

File # SAT-STA-2010 0430-00089

Call Sign S2422 Grant Date 05/11/10

(or other identifier)

Term Dates period of From 05/10/10 To 30 days

Approved by OMB 3060-0678

Approved: Stephen J. Duall

Stephen J. Duall Chief, Satellite Policy Branch

Date & Time Filed: Apr 30 2010 5:29:24:633PM
File Number: SAT-STA-20100430-00089
Callsign:

FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY

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APPLICANT INFORMATION

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

Request for Extension of Special Temporary Authority to Drift and Operate Galaxy 12, Call Sign S2422

1. Applicant

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

**Attachment to Grant**  
**IBFS File No. SAT–STA–20100430–00089**  
**Call Sign S2422**  
**May 11, 2010**

The request of PanAmSat Licensee Corp. (PanAmSat) for special temporary authority, IBFS File No. SAT–STA–20100430–00089, is granted.<sup>1</sup> Accordingly, PanAmSat is authorized, for a period of 30 days commencing on May 10, 2010, to continue to conduct Telemetry, Tracking, and Telecommand (TT&C) operations with the Galaxy 12 space station (Call Sign S2422) necessary to complete the drift of the Galaxy 12 space station from the 133.3° W.L. orbital location to the 133.0° W.L. orbital location, using the following frequencies: 6424.5 MHz (Earth-to-space; right-hand circular and vertical polarization); 4198 MHz (space-to-Earth; left-hand circular and horizontal polarization); and 4199.875 MHz (space-to-Earth; left-hand circular and horizontal polarization). Additionally, PanAmSat is authorized 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) during Galaxy 12’s drift between the 133.3° W.L. and 133.0° W.L. orbital locations, and while located at 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. All operations during the drift 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 station.
2. In the event of any harmful interference during Galaxy 12’s drift between the 133.3° W.L. and 133.0° W.L. orbital locations, PanAmSat shall cease operations immediately upon notification of such interference, and shall inform the Commission, in writing, immediately of such an event.
3. 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.
4. 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.



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<sup>1</sup> PanAmSat is currently operating Galaxy 12 under two grants of special temporary authority: IBFS Sat No. SAT–STA–20100331–00061 that allows Galaxy 12 to drift to and operate at the 129.0° W.L. orbital location for a period of 60 days, commencing on April 2, 2010; and IBFS File No. SAT–STA–20100408–00070 that allows Galaxy 12 to continue its drift past the 129.0° W.L. orbital location to the 133.3° W.L. orbital location, operate for one to two weeks in order to transfer traffic from another PanAmSat space station, Galaxy 15, and then drift back to and operate at the 133.0° W.L. orbital location. Under the terms of the instant special temporary authority, PanAmSat will be allowed to continue to drift Galaxy 12 between the 133.3° W.L. and 133.0° W.L. orbital locations and operate its communications payload during the drift and while located at the 133.0° W.L. orbital location. PanAmSat also 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).

Attachment to Grant  
IBFS File No. SAT-STA-20100430-00089

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5. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at PanAmSat's own risk.
6. 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.
7. PanAmSat shall maintain full operational control of the Galaxy 12 space station at all times.
8. Grant of this authorization is without prejudice to any determination that the Commission may make regarding PanAmSat's pending application to modify the 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).
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.

	
GRANTED *	
International Bureau	
*subject to conditions	
File #	SAT-STA-20100430-00089
Call Sign (or other identifier)	S2422
Grant Date	05/11/10
Term Dates	period of
From	05/10/10
To:	30 days
Approved:	
	Stephen J. Dull Chief, Satellite Policy Branch

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 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  
2010-06-07 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 30-day extension -- through June 7, 2010 -- of the Special Temporary Authority originally granted PanAmSat to continue to drift Galaxy 12 (call sign S2422) past 129.0 W.L. to 133.3 W.L., begin operating the communications payload, and then drift the satellite back to 133.0 W.L. while continuing to operate the

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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## **8. Description**

PanAmSat Licensee Corp. herein requests a 30-day extension -- through June 7, 2010 -- of the Special Temporary Authority originally granted PanAmSat to continue to drift Galaxy 12 (call sign S2422) past 129.0 W.L. to 133.3 W.L., begin operating the communications payload, and then drift the satellite back to 133.0 W.L. while continuing to operate the communications payload.

April 30, 2010

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



Re: Request for Extension of Special Temporary Authority to Drift and  
Operate Galaxy 12  
Call Sign S2422

Dear Ms. Dortch:

PanAmSat Licensee Corp. ("PanAmSat") herein requests a 30-day extension -- through June 7, 2010 -- of the Special Temporary Authority ("STA")<sup>1</sup> previously granted PanAmSat to continue to drift Galaxy 12 (call sign S2422) past 129.0° W.L. to 133.3° W.L., begin operating the communications payload, and then drift the satellite back to 133.0° W.L. while continuing to operate the communications payload.<sup>2</sup>

Galaxy 12 is currently licensed to operate at 122.9° W.L.<sup>3</sup> PanAmSat has a pending application for permanent authority to redeploy Galaxy 12 to 129.0° W.L.<sup>4</sup> PanAmSat initiated the drift of the satellite to 129.0° W.L. under STA.<sup>5</sup> Following the recent technical anomaly on Galaxy 15, however, PanAmSat sought STA to use Galaxy 12 to replace Galaxy 15 at the nominal 133.0° W.L. orbital location.

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<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-00682, File Number SAT-STA-20100408-00070 (Apr. 16, 2010).

<sup>3</sup> See *Policy Branch Information; Actions Taken*, Report No. SAT-00553, File No. SAT-MOD-20080630-00133 (Sept. 5, 2008) (Public Notice).

<sup>4</sup> See *Policy Branch Information; Satellite Space Applications Accepted for Filing*, Report No. SAT-00669, File No. SAT-MOD-20100120-00013 (Mar. 5, 2010) (Public Notice). PanAmSat will soon file an amendment to this pending application to operate at 133.0° W.L.

<sup>5</sup> See *Policy Branch Information; Actions Taken*, Report No. SAT-00680, File No. SAT-STA-20100331-00061 (Apr. 9, 2010) (Public Notice).



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Galaxy 15 customers have been transferred to Galaxy 12 and Galaxy 12 continues to naturally drift to 133.0° W.L. Galaxy 12 currently is located at approximately 133.17° W.L. and is expected to be on-station at 133.0° W.L. on or about May 6, 2010.

During the remaining drift of Galaxy 12 to 133.0° W.L., PanAmSat will follow industry practices for coordinating TT&C transmissions during the relocation process. During the remaining drift and once the satellite is on location at 133.0° W.L., PanAmSat will continue to operate the satellite's C-band communications frequencies as well as the satellite's TT&C frequencies. The continued operation of the satellite's C-band communications during the drift is being done to ensure continuity of service to C-band customers on the satellite. PanAmSat confirms that there are no satellites between 133.3° W.L. and 133.0° W.L. that operate a C-band communications payload. The specific TT&C frequencies for the drift to 133.0° W.L. are as follows:

Uplink:

6424.5 MHz (RHCP), (V)

Downlink:

4198 MHz (LHCP), (H)

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

Grant of this STA extension request is in the public interest because it will allow PanAmSat to continue drifting and operating Galaxy 12, thereby ensuring continuity of service to customers despite the technical anomaly on Galaxy 15. As noted in the original STA request, customers transferred to Galaxy 12 will not experience service degradation or be otherwise harmed by the satellite's drift to 133.0° W.L.

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<sup>6</sup> 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.

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Grant of this STA extension request will not result in increased risk of harmful interference. As noted above, PanAmnSat will coordinate its TT&C transmissions with operators of satellites in the drift path. As also noted above, there are no satellites in the drift path from 133.3° W.L. to 133.0° W.L. utilizing C-band communications frequencies, and thus no interference issues are foreseen. Should any interference occur during the drift, PanAmnSat will take all reasonable steps to eliminate such interference. Once on-station at 133.0° W.L., PanAmnSat will operate the communications payload in conformance with its sister company Intelsat's coordination agreements related to the 133.0° W.L. location.

PanAmnSat 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, PanAmnSat 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. PanAmnSat is also 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, PanAmnSat respectfully requests that the Commission expeditiously grant this extension request.

Sincerely,



Susan H. Crandall  
Assistant General Counsel  
Intelsat Corporation

cc: Robert Nelson  
Kathryn Medley  
Stephen Duall