



File # SAT-STA-20100408-00070

Call Sign S2422 Grant Date 04/09/10
(or other identifier)

Term Dates period of
From 04/09/10 To: 30 days

Approved by OMB
3060-0678

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

Date & Time Filed: Apr 8 2010 5:53:48:893PM
File Number: SAT-STA-20100408-00070
Callsign:

*subject to
conditions

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 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 3400 International Drive, N.W.	E-Mail:	susan.crandall@intelsat.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20008 -3006
Attention:	Susan H Crandall		

Attachment to Grant
IBFS File No. SAT-STA-20100408-00070
Call Sign S2422
April 9, 2010


The request of PanAmSat Licensee Corp. (PanAmSat) for special temporary authority, IBFS File No. SAT-STA-20100408-00070, is granted.¹ Accordingly, PanAmSat is authorized, for a period of 30 days, to conduct Telemetry, Tracking, and Telecommand (TT&C) operations with the Galaxy 12 space station (Call Sign S2422) to effect the drift of the Galaxy 12 space station from the 129.0° W.L. orbital location to the 133.3° W.L. orbital location, and 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 horizontal polarization); 4198 MHz (space-to-Earth; left-hand circular and vertical polarization); and 4199.875 MHz (space-to-Earth; left-hand circular and 4199.875 MHz (vertical polarization/space-to-Earth). 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) temporarily from the 133.3° W.L. orbital location, 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 drifts 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 drifts between the 129.0° W.L., 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. During the drift between the 129° W.L. and 133.3° W.L. orbital locations, PanAmSat may not operate Galaxy 12's communications payload.
4. PanAmSat shall immediately notify the Commission when the Galaxy 12 space station commences operations at the 133.3° W.L. and 133.0° W.L. orbital locations.
5. PanAmSat's operations at the 133.3° W.L. and 133.0° W.L. orbital locations 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.

¹ PanAmSat is currently operating Galaxy 12 under 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. Under the terms of the instant special temporary authority, Galaxy 12 will be allowed 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. 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).

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6. In the event of any harmful interference during PanAmSat's operations at the 133.3° W.L. or 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.
7. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at PanAmSat's own risk.
8. While at the 133.3° W.L. or 133.0° W.L. orbital locations, PanAmSat shall maintain the Galaxy 12 spacecraft with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
9. PanAmSat shall maintain full operational control of the Galaxy 12 space station at all times.
10. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at PanAmSat's own risk.
11. 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).
12. 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	
File #	<u>SAT-STA-20100408-00070</u>
Call Sign	<u>S2422</u>
(or other identifier)	
Grant Date	<u>04/09/10</u>
Term Dates	period of
From	<u>04/09/10</u>
To:	<u>30 days</u>
Approved:	<u><i>Stephen J. Duall</i></u> Stephen J. Duall Chief, Satellite Policy Branch

* subject to conditions

2. Contact

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

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 Special Temporary Authority for 30 days beginning April 9, 2010 to continue to drift Galaxy 12 (call sign S2422) past 129.0 W.L. to 133.3 W.L., begin operation, and then drift back to 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).

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.

April 8, 2010

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

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

Dear Ms. Dortch:

PanAmSat Licensee Corp. ("PanAmSat") herein requests Special Temporary Authority ("STA")¹ for 30 days beginning April 9, 2010 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.

Galaxy 12 is currently licensed to operate at 122.9° W.L.² PanAmSat has a pending application for permanent authority to redeploy Galaxy 12 to 129.0° W.L.³ PanAmSat is currently drifting the satellite to 129.0° W.L. under STA.⁴ Upon receipt of Commission approval, Galaxy 12 will continue to drift past 129.0° W.L. to 133.3° W.L. Galaxy 12 will arrive at 133.3° W.L. on April 14, 2010 and operate there for approximately one to two weeks. At 133.3° W.L., customer traffic will be transferred from Galaxy 15 (call sign S2387), which is currently licensed to operate at 133.0° W.L.⁵ but is experiencing a technical anomaly. Once customers are transferred, Galaxy 12 will be allowed to naturally drift back to 133.0° W.L. PanAmSat expects to have Galaxy 12 on-station at 133.0° W.L. around mid-May 2010.

¹ PanAmSat has filed this STA request, an FCC Form 159 and an \$830.00 filing fee electronically via the International Bureau's Filing System.

² See *Policy Branch Information, Actions Taken*, Report No. SAT-00553, File No. SAT-MOD-20080630-00133 (Sept. 5, 2008) (Public Notice).

³ 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.

⁴ See *Request for Special Temporary Authority to Drift Galaxy 12*, File No. SAT-STA-20100331-00061 (stamp grant April 6, 2010).

⁵ See *Policy Branch Information, Actions Taken*, Report No. SAT-00233, File No. SAT-AMMD-20021029-00199 (Aug. 13, 2004) (Public Notice).

During the drift of Galaxy 12 from 129.0° W.L. to 133.3° W.L., PanAmSat will continue to utilize only the satellite's TT&C frequencies and will follow industry practices for coordinating TT&C transmissions during the relocation process. During the drift from 133.3° W.L. to 133.0° W.L., PanAmSat will operate the satellite's C-band communications frequencies as well as the satellite's TT&C frequencies. The operation of Galaxy 12's C-band communications during the drift is being done to ensure continuity of service to C-band customers transferred to 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 both the drifts from 129.0° W.L. to 133.3° W.L. and from 133.3° W.L. to 133.0° W.L. are as follows:

Uplink:

6424.5 MHz (RHCP), (H)

Downlink:

4198 MHz (LHCP), (V)
4199,875 MHz (LHCP), (V)⁶

Grant of this STA request is in the public interest because it will allow PanAmSat to continue drifting Galaxy 12 and to operate the satellite at 133.3° W.L. and 133.0° W.L. This will ensure continuity of service to customers despite the technical anomaly on Galaxy 15, as the traffic on Galaxy 15 will be transferred to Galaxy 12. Customers transferred to Galaxy 12 will not experience service degradation or be otherwise harmed by the satellite's drift from 133.3° W.L. to 133.0° W.L.

Grant of this STA request will not result in increased risk of harmful interference. As noted above, PanAmSat will operate only the above listed TT&C frequencies during the drift from 129.0° W.L. to 133.3° W.L., and 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 drifts, PanAmSat will take all reasonable steps to eliminate such interference. Once on-station at 133.0° W.L., PanAmSat will operate the communications payload in conformance with its sister company Intelsat's coordination agreements related to the 133.0° W.L. location.

⁶ Once Galaxy 12 arrives at 133.3° W.L., the polarization will be reversed for both the uplink and downlink TT&C frequencies. Thus, the uplink frequency will operate in vertical polarization; the downlink frequencies in horizontal polarization.

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 133.3° W.L. and 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 133.3° W.L. or 133.0° W.L.

PanAmSat is also not aware of any system with an overlapping station-keeping volume with Galaxy 12 at 133.3° W.L. or 133.0° W.L. that is the subject of an ITU filing and that is either in orbit or progressing towards launch. Finally, PanAmSat will internally coordinate the co-location of Galaxy 15 and Galaxy 12 at the nominal 133.0° W.L. location.

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

Sincerely,

/s/ Susan H. Crandall

Susan H. Crandall
Assistant General Counsel
Intelsat Corporation

cc: Robert Nelson
Kathryn Medley
Stephen Duall