

S2146 SAT-STA-20100430-00088 IB2010001398  
PanAmSat Licensee Corp.  
Galaxy 9

Date & Time Filed: Apr 30 2010 5:14:50:413PM  
File Number: SAT-STA-20100430-00088  
Callsign:



File # SAT-STA-20100430-00088  
Call Sign S2146 Grant Date 05/14/10  
(or other identifier)  
Term Dates period of 30 days  
From 05/15/10 To:  
Approved: Stephen J. Duall  
Chief, Satellite Policy Branch

Approved by OMB  
3060-0678

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 De-Orbit the Galaxy 9 Satellite, S2146

I. 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  
PanAmSat Licensee Corp.  
IBFS File No. SAT-STA-20100430-00088**

The application of PanAmSat Licensee Corp. (PanAmSat) for special temporary authority, IBFS File No. SAT-STA-20100430-00088, IS GRANTED. Accordingly, PanAmSat is authorized for a period of 30 days commencing on May 15, 2010, to perform tracking, telemetry, and telecommand (TT&C) functions with the Galaxy 9 satellite (Call Sign: S2146) to execute end-of-life maneuvers boosting the satellite to a disposal orbit above the geostationary arc using the following frequencies: 4199.0 MHz (horizontal and vertical polarization) and 4199.875 MHz (horizontal and vertical) (space-to-Earth) and 6424.5 MHz (vertical) and 5925.5 MHz (horizontal) (Earth-to-space). This authorization is granted in accordance with the terms, conditions, and technical specifications set forth in PanAmSat's application, the Commission's rules, and the following conditions:

1. PanAmSat shall coordinate all orbit raising maneuver TT&C operations with existing geostationary satellites to ensure that no unacceptable interference results from its TT&C operations during its disposal operations.
2. During the disposal operations, no harmful interference shall be caused by Galaxy 9 to any other lawfully operating space station or radio communications system and operations of the Galaxy 9 satellite shall cease immediately upon notification of such interference.
3. PanAmSat is required to accept interference from other lawfully operating space stations of radio communications systems.
4. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at PanAmSat's own risk.
5. Within 30 days of completion of the end-of-life maneuvers, PanAmSat shall send a letter to the Chief, Satellite Division, International Bureau, indicating the apogee and perigee of the Galaxy 9 disposal orbit.



\*subject to conditions

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Call Sign S2146 Grant Date 05/14/10  
(or other identifier)

Term Dates period of  
From 05/15/10 To: 30 days

Approved: Stephen J. Duall

Stephen J. Duall  
Chief, Satellite Policy Branch

2. Contact	
<b>Name:</b>	PanAmSat Licensee Corp. <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?	
<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).	
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee	
<input type="radio"/> Other(please explain):	
4b. Fee Classification CRY - Space Station (Geostationary)	
5. Type Request	
<input type="radio"/> Change Station Location	<input type="radio"/> Extend Expiration Date <input checked="" type="radio"/> 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., pursuant to Section 25.120 of the rules of the Federal Communications Commission, herein requests Special Temporary Authority, beginning on May 15, 2010 and lasting for a period of thirty days, to de-orbit the Galaxy 9 satellite (Call Sign S2146) from its current location at 81.0 W.L. and to perform telemetry, tracking and

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.**

April 30, 2010

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



Re: Request for Special Temporary Authority to De-Orbit the Galaxy 9  
Satellite, Call Sign S2146

Dear Ms. Dortch:

PanAmSat Licensee Corp. ("PanAmSat"), pursuant to Section 25.120 of the rules of the Federal Communications Commission ("FCC" or "Commission"),<sup>1</sup> herein requests Special Temporary Authority ("STA"), beginning on May 15, 2010 and lasting for a period of thirty days, to de-orbit the Galaxy 9 satellite (Call Sign S2146) from its current location at 81.0° W.L.<sup>2</sup> and to perform telemetry, tracking and command ("TT&C") functions with Galaxy 9 during this maneuver.

Grant of this STA is in the public interest. The Galaxy 9 satellite was launched in May 1996 and is nearing the end of its useful life. PanAmSat originally had planned to de-orbit the spacecraft on July 1, 2010. In order to provide additional margin for the de-orbit altitude, PanAmSat now seeks to commence de-orbiting the spacecraft sometime between May 15, 2010 and June 13, 2010.

PanAmSat intends to de-orbit the Galaxy 9 satellite to a perigee 150 km above synchronous altitude. PanAmSat has reserved 2.5 kilograms of fuel for this purpose. To calculate the reserved fuel figure, PanAmSat used the "rocket equation" – *i.e.*, it used the expected mass of the satellite at the end of life and the required delta-velocity to achieve the desired orbit. PanAmSat has assessed the fuel gauging uncertainty and believes it has provided an adequate margin of fuel reserve to address the assessed uncertainty in the remaining propellant. As a satellite launched prior to March 18, 2002, the minimum perigee requirements for decommissioning set forth in Section 25.283(a) of the Commission's rules do not apply to Galaxy 9.<sup>3</sup>

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<sup>1</sup> 47 C.F.R. § 25.120.

<sup>2</sup> *See Policy Branch Information; Actions Taken*, Report No. SAT-00465, File No. SAT-MOD-20070522-00072 (Aug. 10, 2007) (Public Notice).

<sup>3</sup> 47 C.F.R. § 25.283(d).

Ms. Marlene H. Dortch, Secretary

April 30, 2010

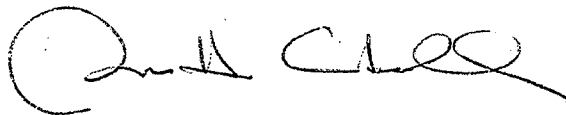
Page 2

The de-orbit of Galaxy 9 will not cause any significant risk of harmful interference to other satellites. During the de-orbit, the satellite's communications payload will remain inactive and only the TT&C payload will operate. PanAmSat requests authority to operate the following TT&C frequencies: 4199.0 MHz (Horizontal and Vertical) and 4199.875 MHz (Horizontal and Vertical) (telemetry downlink) and 6424.5 MHz (Vertical) and 5925.5 MHz (Horizontal) (command uplink). These frequencies will be coordinated and will operate on a non-interference basis.<sup>4</sup>

Finally, consistent with Section 25.283(c), upon completion of de-orbit maneuvers, all stored energy sources will be discharged by venting excess propellant, discharging batteries, relieving pressure vessels, and other appropriate measures.

For the reasons set forth herein, PanAmSat respectfully requests that the Commission expeditiously grant this request for special temporary authority to de-orbit the Galaxy 9 satellite.

Sincerely,



Susan H. Crandall  
Assistant General Counsel  
Intelsat Corporation

Cc: Bob Nelson  
Karl Kensinger  
Kathyrn Medley  
Stephen Duall

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<sup>4</sup> See 47 C.F.R. § 25.283(b).