

\*\* See also  
SAT-STA-20110112-00011

S2459 SAT-STA-20110112-00010 IB2011000097  
PanAmSat Licensee Corp.  
Intelsat 2

Approved by OMB  
3060-0678

File # SAT-STA-20110112-00010  
Call Sign S2459 Grant Date 01/14/11  
(or other identifier) Term Dates Period of  
From 01/20/11 To: 30 days

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



Date & Time Filed: Jan 12 2011 3:35:12:006PM  
File Number: SAT-STA-20110112-00010  
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 Further Extension of STA to Operate Intelsat 2 (S2459)

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	<b>E-Mail:</b>	susan.crandall@intelsat.com
	3400 International Drive, N.W.		
<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**  
**Application of PanAmSat Licensee Corp.**  
**IBFS File Nos. SAT-STA-20110112-00010; SAT-STA-20110112-00011**  
**Call Sign S2459**

The applications of PanAmSat Licensee Corp. (PanAmSat) for special temporary authority, IBFS File Nos. SAT-STA-20110112-00010 and SAT-STA-20110112-00011, are granted. Accordingly, PanAmSat is authorized for a period of 30 days, beginning on January 20, 2011, to conduct Telemetry, Tracking, and Telecommand (TT&C) operations necessary to drift Intelsat 2 (Call Sign S2459) from 157.0° E.L. to 174.0° E.L. using the following frequencies: 6424.5 MHz (H) and 5925.5 MHz (H) (Earth-to-space), and 4198.5 MHz (H, V) and 4199.5 MHz (H, V) (space-to-Earth). PanAmSat is also authorized to operate Intelsat 2 temporarily in the C- and Ku-bands at 174.0° E.L. using the following frequencies: 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 12250-12750 MHz (space-to-Earth), and 14000-14500 MHz (Earth-to-space). This authorization is granted in accordance with the terms, conditions, and technical specifications set forth in PanAmSat's applications, the Federal Communications Commission's rules, and the conditions of this attachment.

1. All operations shall be on an unprotected and non-harmful interference basis, *i.e.*, Intelsat 2 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, PanAmSat shall cease operations immediately upon notification of such interference, and shall inform the Commission, in writing, immediately of such an event.
3. In connection with the provision of service in any particular country, PanAmSat is obliged to comply with the applicable laws, regulations, rules, and licensing procedures of that country.
4. While at the 174.0° E.L. orbital location, PanAmSat shall maintain the Intelsat 2 spacecraft with an east/west longitudinal station-keeping tolerance of +/- 0.05 degrees.
5. PanAmSat shall coordinate its operations with existing geostationary satellites to ensure that no unacceptable interference results from its temporary operations at the 174.0° E.L. orbital location or from its TT&C operations during the drift to the 174.0° E.L. orbital location.
6. PanAmSat shall operate at the 174.0° W.L. orbital location pursuant to existing or future coordination agreements for that location.
7. Grant of this authorization does not convey to PanAmSat any authority to operate a space station at the 174.0° E.L. orbital location beyond the term granted herein, nor convey any priority in the United States' satellite licensing process relative to applications for authority to operate a regularly authorized satellite at this orbital location.
8. Grant of this special temporary authorization does not constitute "specific authority" pursuant to Section 25.161(c) of the Commission's rules.

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**IBFS File Nos. SAT-STA-20110112-00010; SAT-STA-20110112-00011**  
**Call Sign S2459**


9. Grant of this special temporary authorization is without prejudice to any decision regarding PanAmSat's ability to file an application for authorization at the 157° E.L. orbital location in the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 12.25-12.75 GHz (space-to-Earth), and 14.0-14.5 GHz (Earth-to-space) frequency bands.<sup>1</sup> Grant of this special temporary authorization does not constitute an announcement that these frequencies are available for reassignment.
10. Use of the 12.5-12.75 GHz frequency bands is not permitted for Fixed-Satellite Service in the space-to-Earth direction in Region 2.
11. Within 30 days of completion of any end-of-life maneuvers for the Intelsat 2 spacecraft, which were approved in IBFS File No. SAT-MOD-20080811-00153, PanAmSat shall send a letter to the Chief, Satellite Division, International Bureau, indicating the apogee and perigee of the Intelsat 2 disposal orbit.
12. The applicant's request for waiver of Section 25.283(c) of the Commission's rules, 47 C.F.R. § 25.283(c), IS GRANTED. Section 25.283(c) requires discharge of all stored energy sources when a space station is retired from service. Intelsat 2 is a Boeing 601 model spacecraft, which has a liquid propulsion system that includes two helium pressurant tanks and two pairs of fuel and oxidizer tanks. The fuel and oxidizer tanks will be vented in the end-of-life shutdown procedure, but there is no mechanism for venting the helium tanks. Instead, the helium tanks were sealed by firing pyrotechnic valves shortly after launch in 1994. PanAmSat states that the helium tanks have enclosed volumes of 43.53 and 42.51 liters and estimates that the mass and pressure of residual helium in each tank will be not exceed 129 grams and 262 psi, respectively, at end-of-life. We waive Section 25.283(c) in light of the fact that the action taken to seal the helium tanks was taken prior to the adoption of this rule, and compliance would require direct retrieval of the spacecraft.
13. 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 has been granted special temporary authority, since September 21, 2010, to conduct telemetry, tracking, and telecommand operations necessary to drift Intelsat 2 from the 157° E.L. orbital location to 174.0° E.L. orbital location and to maintain at that location upon arrival. *See* IBFS File Nos. SAT-STA-20101214-00258 (granted Jan. 6, 2011); SAT-STA-20101115-00236 (granted Dec. 9, 2010); SAT-STA-20101012-00215 (granted Oct. 20, 2010); SAT-STA-20100810-00176 (granted Sept. 21, 2010). Prior to this authorization, PanAmSat was granted special temporary authority, for a period of 90 days commencing June 25, 2010, to conduct telemetry, tracking, and telecommand operations necessary to drift Intelsat 2 from the 169.10° to the 157° E.L. orbital location and to maintain the satellite at that location upon arrival. *See* SAT-STA-20100330-00059. On August 6, 2010, PanAmSat was granted special temporary authority to operate the communications payload on the Intelsat 2 space station at 157° E.L. *See* IBFS File No. SAT-STA-2010330-0059. At the time of this grant, Intelsat has no application pending to operate a space station in the 3700-4200 MHz (space-to-Earth), 5925-6425 MHz (Earth-to-space), 12.25-12.75 GHz (space-to-Earth), and 14.0-14.5 GHz (Earth-to-space) frequency bands at the 157° W.L. orbital location. No Intelsat space station will be operating on these frequency bands at 157° E.L. once Intelsat 2 ceases operations at this location.

**Attachment to Grant**  
**Application of PanAmSat Licensee Corp.**  
**IBFS File Nos. SAT-STA-20110112-00010; SAT-STA-20110112-00011**  
**Call Sign S2459**

14. PanAmSat North America 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 period will constitute formal acceptance of the authorization as conditioned.
  
15. 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. 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 this action was taken.

 <b>GRANTED*</b> International Bureau *with conditions	SAT-STA-20110112-00010
	File # <u>SAT-STA-20110112-00011</u>
	Call Sign <u>S2459</u> Grant Date <u>01/14/11</u> (or other identifier)
	Term Dates period of From <u>01/20/11</u> To: <u>30 days</u>
	Approved: <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch

2. Contact	
<b>Name:</b>	Susan H. Crandall
<b>Company:</b>	c/o Intelsat Corporation
<b>Street:</b>	3400 International Drive, N.W.
<b>City:</b>	Washington
<b>Country:</b>	USA
<b>Attention:</b>	Susan H. Crandall
<b>Phone Number:</b>	202-944-7848
<b>Fax Number:</b>	202-944-7870
<b>E-Mail:</b>	susan.crandall@intelsat.com
<b>State:</b>	DC
<b>Zipcode:</b>	20008 -3006
<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 checked="" type="radio"/> Extend Expiration Date <input type="radio"/> Other	
6. Temporary Orbit Location	
174.0 E.L.	
7. Requested Extended Expiration Date	
2011-02-17 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 further extension, through February 17, 2011, of the Special Temporary Authority previously granted PanAmSat to drift Intelsat 2 (call sign S2459) from 157.0 E.L. to 174.0 E.L. and to operate the satellite temporarily in the C- and Ku-bands at 174.0 E.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"; 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**

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to [PRA@fcc.gov](mailto:PRA@fcc.gov). PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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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.**

January 12, 2011

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



Re: Request for Further Extension of Special Temporary Authority to Drift  
and Operate Intelsat 2  
Call Sign S2459

Dear Ms. Dortch:

PanAmSat Licensee Corp. ("PanAmSat") herein requests a 30-day further extension – through February 17, 2011 – of the Special Temporary Authority ("STA")<sup>1</sup> previously granted PanAmSat to drift Intelsat 2 (call sign S2459) from 157.0° E.L. to 174.0° E.L. and to operate the satellite temporarily in the C- and Ku-bands at 174.0° E.L.<sup>2</sup> PanAmSat agrees to accept the same conditions as imposed on the prior STA grant.<sup>3</sup>

Intelsat 2 is currently operating at 174.0° E.L. PanAmSat will operate the satellite at this location until its de-orbit, which currently is scheduled for January 2011.<sup>4</sup> As such, PanAmSat does not expect to require further extension of this STA beyond February 17, 2011.

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<sup>1</sup> PanAmSat 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-00748, File No. SAT-STA-20101214-00258 (Jan. 7, 2011) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00742, File No. SAT-STA-20101115-00236 (Dec. 10, 2010) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00730, File No. SAT-STA-20101012-00215 (Oct. 22, 2010) (Public Notice); *Policy Branch Information; Actions Taken*, Report No. SAT-00723, File No. SAT-STA-20100810-00176 (Sep. 24, 2010) (Public Notice).

<sup>3</sup> See File No. SAT-STA-20101214-00258.

<sup>4</sup> The FCC has already approved a post-mission disposal plan for the Intelsat 2 satellite that reserves 25.6 kg of fuel for an intended de-orbit altitude of 150 km. See *PanAmSat Licensee Corp., Application to Modify Authorization to Relocate Intelsat 2 to 169.10° E.L. (S2459)*, File No. SAT-MOD-20080811-00153 (stamp granted with conditions Jan. 14, 2009). The FCC also has extended the license term for the Intelsat 2 satellite to December 1, 2011. See *PanAmSat Licensee Corp., Application for Modification To Extend the License*



Ms. Marlene H. Dortch  
January 12, 2011  
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The specific TT&C frequencies are as follows:

Uplink:

6424.5 MHz (H)  
5925.5 MHz (H)

Downlink:

4198.5 MHz (H, V)  
4199.5 MHz (H, V)

The communications payload frequencies are as follows:

Uplink:

5925-6425 MHz  
14000-14500 MHz

Downlink:

3700-4200 MHz  
12250-12750 MHz<sup>5</sup>

Grant of this STA further extension request is in the public interest because it will continue to allow PanAmSat to conduct temporary operations at 174.0° E.L. before de-orbiting the satellite, thus ensuring maximum fleet flexibility. The continued operation of Intelsat 2 at 174.0° E.L. also serves the public interest because it will preserve the United States' filing priority at the International Telecommunication Union ("ITU) for this orbital location.<sup>6</sup>

Grant of this STA further extension request will not result in increased risk of harmful interference. PanAmSat will continue to operate Intelsat 2 at 174.0°

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*Term of Intelsat 2*, File Nos. SAT-MOD-20090204-00015 and SAT-AMD-20090526-00057 (stamp granted with conditions July 16, 2009).

<sup>5</sup> PanAmSat will operate the 12250-12750 MHz frequencies on Intelsat 2 only over Region 2.

<sup>6</sup> The United States acquired the ITU satellite network filing for the 174.0° E.L. orbital location at the time of Intelsat's privatization.

Ms. Marlene H. Dortch  
January 12, 2011  
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E.L. in conformance with its sister company Intelsat's coordination agreements related to that 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. Intelsat 2 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 Intelsat 2 at 174.0° E.L. Finally, PanAmSat is not aware of any system with an overlapping station-keeping volume with Intelsat 2 at 174.0° E.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 expeditiously grant this further extension request.

Sincerely,



Susan H. Crandall  
Assistant General Counsel  
Intelsat Corporation

cc: Karl Kensinger  
Kathryn Medley  
Stephen Duall