

PAS-2R SAT-STA-20110726-00134  
IntelSat License LLC  
PAS-3R IB2011003649

Date & Time Filed: Jul 26 2011 5:50:55:860PM  
File Number: SAT-STA-20110726-00134  
Callsign:

File # SAT-STA-20110726-00134  
Call Sign PAS-2R Grant Date 08/11/11  
(or other identifier)  
Term Dates period of 30 days  
From 07/31/11 To:  
Approved: Stephen J. Duall  
Stephen J. Duall  
Chief, Satellite Policy Branch

Approved by OMB  
3060-0678



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 Extension of Special Temporary Authority to De-Orbit the Intelsat 3R Satellite, Call Sign PAS-2R

1. Applicant	Name:	IntelSat License LLC	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  
Intelsat License LLC  
SAT-STA-20110726-00134**

The application of Intelsat License LLC (Intelsat) for special temporary authority, IBFS File No. SAT-STA-20110726-00134, IS GRANTED. Accordingly, Intelsat is authorized for a period of 30 days commencing on July 31, 2011, to continue to perform tracking telemetry, and telecommand (TT&C) operations with the Intelsat 3R space station (Call Sign: PAS-2R) to execute end-of-life maneuvers boosting the satellite to a disposal orbit with a minimum perigee altitude of 150 km above the geostationary arc using the following frequencies: 4199.0 MHz (horizontal and vertical polarization) and 4198.5 MHz (horizontal and vertical) (space-to-Earth) and 6424.5 MHz (horizontal) and 5925.5 MHz (horizontal) (Earth-to-space). This authorization is granted in accordance with the terms, conditions, and technical specifications set forth in Intelsat's application, the Commission's rules, and the following conditions:

1. Intelsat 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 Intelsat 3R to any other lawfully operating space station or radio communications system and operations of the Intelsat 3R satellite shall cease immediately upon notification of such interference.
3. Intelsat is required to accept interference from other lawfully operating space stations or radio communications systems.
4. Within 30 days of completion of the end-of-life maneuvers, Intelsat shall send a letter to the Chief, Satellite Division, International Bureau, indicating the apogee and perigee of the Intelsat 3R disposal orbit.

 <b>GRANTED*</b> International Bureau *with conditions	<b>File #</b> SAT-STA-20110726-00134
	<b>Call Sign</b> PAS-2R <b>Grant Date</b> 08/11/11 (or other identifier)
	<b>Term Dates</b> period of <b>From</b> 07/31/11 <b>To:</b> 30 days
	<b>Approved:</b> <i>Stephen J. Duall</i> Stephen J. Duall Chief, Satellite Policy Branch

2. Contact	
<b>Name:</b> Susan H Crandall	<b>Phone Number:</b> 202-944-7848
<b>Company:</b> 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 checked="" type="radio"/> Extend Expiration Date
	<input type="radio"/> Other
6. Temporary Orbit Location	
7. Requested Extended Expiration Date 2011-08-29 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.)

Intelsat License LLC, pursuant to Section 25.120 of the rules of the Federal Communications Commission, herein requests a 30-day extension, from July 31, 2011 through August 29, 2011, of the Special Temporary Authority previously granted Intelsat to de-orbit Intelsat 3R (call sign PAS-2R) from 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.**

## **8. Description**

Intelsat License LLC, pursuant to Section 25.120 of the rules of the Federal Communications Commission, herein requests a 30-day extension, from July 31, 2011 through August 29, 2011, of the Special Temporary Authority previously granted Intelsat to de-orbit Intelsat 3R (call sign PAS-2R) from 81.0 W.L. and to perform telemetry, tracking and command functions with Intelsat 3R during this maneuver.

July 26, 2011

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



Re: Request for Extension of Special Temporary Authority to De-Orbit the Intelsat 3R Satellite, Call Sign PAS-2R

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat"), pursuant to Section 25.120 of the rules of the Federal Communications Commission ("FCC" or "Commission"),<sup>1</sup> herein requests a 30-day extension - from July 31, 2011 through August 29, 2011 - of the Special Temporary Authority ("STA")<sup>2</sup> previously granted Intelsat to de-orbit Intelsat 3R (call sign PAS-2R) from 81.0° W.L. and to perform telemetry, tracking and command (TT&C) functions with Intelsat 3R during this maneuver.<sup>3</sup>

Grant of this STA extension request is in the public interest as it will allow Intelsat to continue de-orbiting Intelsat 3R. As Intelsat informed the Commission, it began de-orbiting maneuvers on July 6, 2011.<sup>4</sup> As present, Intelsat is continuing to perform burns to deplete the tanks.

As noted in its initial STA request, Intelsat intends to de-orbit the Intelsat 3R satellite to a perigee 150 km above synchronous altitude. Intelsat has reserved 27.6 kilograms of fuel for this purpose. To calculate the reserved fuel figure, Intelsat 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. Intelsat has assessed the fuel gauging uncertainty and believes it has provided an adequate margin of fuel reserve to address the 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 Intelsat 3R.<sup>5</sup>

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<sup>1</sup> 47 C.F.R. § 25.120.

<sup>2</sup> Intelsat has filed this STA request, an FCC Form 159 and an \$860.00 filing fee electronically via the International Bureau's Filing System.

<sup>3</sup> See *Policy Branch Information; Actions Taken*, Report No. SAT-00787, File No. SAT-STA-20110503-00083 (Jun. 17, 2011).

<sup>4</sup> See Letter from Susan H. Crandall, Intelsat, to Mr. Robert Nelson, FCC, File No. SAT-STA-20110503-00083 (June 28, 2011).

<sup>5</sup> 47 C.F.R. § 25.283(d).

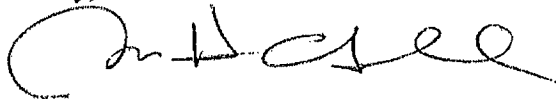
Marlene H. Dortch, Secretary  
July 26, 2011  
Page 2

The de-orbit of Intelsat 3R will not cause any significant risk of harmful interference to other satellites. During the continued de-orbit, the satellite's communications payload will remain inactive and only the TT&C payload will operate. Intelsat requests authority to continue operating the following TT&C frequencies: 6424.5 MHz (H) and 5925.5 MHz (H) (command uplink); 4198.5 MHz (H)(V) and 4199.0 MHz (H)(V) (telemetry downlink). These frequencies will continue to be coordinated and operated on a non-interference basis.<sup>6</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.<sup>7</sup>

For the reasons set forth herein, Intelsat respectfully requests that the Commission expeditiously grant this request for extension of special temporary authority to de-orbit the Intelsat 3R satellite.

Sincerely,



Susan H. Crandall  
Assistant General Counsel  
Intelsat Corporation

cc: Bob Nelson  
Karl Kensinger  
Kathryn Medley  
Stephen Duall

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<sup>6</sup> See 47 C.F.R. § 25.283(b).

<sup>7</sup> Intelsat notes that in a recent pleading filed by the Satellite Industry Association ("SIA"), the Intelsat 3R satellite was included as a satellite whose design does not permit all pressure vessels to be relieved at end of life. See *Satellite Industry Association, Request for Blanket Waiver of Section 25.283(c) of the Commission's Rules*, IB Docket No. 02-54, Annex 1 (filed Oct. 1, 2010). The inclusion of the Intelsat 3R on this list is an error; the Intelsat 3R satellite is capable of venting all stored energy sources at the end of life.