

S2372 SAT-STA-20110928-00189 IB2011004409  
Lockheed Martin Corporation  
LM-RPS1

Date & Time Filed: Sep 28 2011 10:21:17:330AM  
File Number: SAT-STA-20110928-00189  
Callsign:



File # SAT- STA-20110928-00189

Call Sign S2372 Grant Date 10/03/11  
(or other identifier)

Term Dates period of  
From 09/30/11 To: 30 days

Approved by OMB  
3060-0678

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

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:  
30-day STA Extension for LM-RPS-1 (Call Sign S2372) September 2011


I. Applicant

Name:	Lockheed Martin Corporation	Phone Number:	703-413-5970
DBA Name:		Fax Number:	703-413-5908
Street:	2121 Crystal Drive Suite 100	E-Mail:	jennifer.warren@lmco.com
City:	Arlington	State:	VA
Country:	USA	Zipcode:	22202
Attention:	Ms Jennifer Warren		

**Attachment to Grant  
 IBFS File No. SAT-STA-20110928-00189  
 Call Sign S2372**

Lockheed Martin Corporation (Lockheed Martin) is granted special temporary authority for a period of 30 days, commencing on September 30, 2011, to continue to operate the LM-RPS1 space station (Call Sign S2372) outside the +/-0.05° north/south and east/west station-keeping boxes previously authorized<sup>1</sup> while the LM-RPS1 space station is being relocated to its previously assigned location of 133.0° W.L. This authorization shall be in accordance with the technical specifications set forth in Lockheed Martin's application, Federal Communication Commission (Commission) rules, and the following conditions:

1. Lockheed Martin must notify the JPO for GPS Captain Harry Hariharan at 310-653-3253 every 30 days of the status of this satellite. Also if the satellite is lost then Lockheed must notify Capt Hariharan and Mr. Davison of NTIA at 202-482-5526 when that happens.
2. Upon arrival at the 133.0° W.L. orbital location, Lockheed Martin shall resume operations of the LM-RPS1 space station in the 1166.20-1186.70 MHz/1565.17-1585.67 MHz (space-to-Earth) and 6629.02-6649.52 MHz/6680.17-6700.67 MHz (Earth-to-space) frequency bands subject to the conditions of the authority previously granted to Lockheed Martin to operate LM-RPS1 at 133.0° W.L.<sup>2</sup> Due to the extraordinary circumstances of the anomaly on board the host Galaxy 15 satellite, which occurred on April 5, 2010, we find that the absence of LM-RPS1 from its assigned 133.0° W.L. orbital location did not constitute a removal or modification of the space station under the provisions of Section 25.161(c) of the Commission's rules, 47 C.F.R. § 25.161(c).
3. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Lockheed Martin's own risk.
4. 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.

 <b>GRANTED*</b> International Bureau *with conditions	<b>File #</b> SAT-STA-20110928-00189
	<b>Call Sign</b> S2372 <b>Grant Date</b> 10/03/11
	<b>(or other identifier)</b>
	<b>Term Dates</b> period of
	<b>From</b> 09/30/11 <b>To:</b> 30 days
<b>Approved:</b> <i>Stephen J. Duall</i> Stephen J. Duall Chief, Satellite Policy Branch	

<sup>1</sup> Lockheed Martin Corporation, *Order and Authorization*, DA 05-1747 (Int'l Bur. 2005).

<sup>2</sup> *Id.*

<b>2. Contact</b>	
<b>Name:</b>	Stephen D. Baruch
<b>Company:</b>	Lerman Senter PLLC
<b>Street:</b>	2000 K Street, NW Suite 600
<b>City:</b>	Washington
<b>Country:</b>	USA
<b>Attention:</b>	
<b>Phone Number:</b>	202-416-6782
<b>Fax Number:</b>	202-429-4626
<b>E-Mail:</b>	sbaruch@lermansenter.com
<b>State:</b>	DC
<b>Zipcode:</b>	20006
<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 SATSTA2011040400068 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	
133.1W	7. Requested Extended Expiration Date
	2011-11-02 00:00:00.0

<p>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.)</p> <div style="border: 1px solid black; padding: 5px;"> <p>Applicant requests a 30-day extension of special temporary authority granted under File No. SAT-STA-20110404-00068, to allow for continued operation of LM-RPS1 satellite outside of E/W stationkeeping restrictions while the host satellite is temporarily located at the 133.1 degrees west longitude orbital location and drifted back to the 133 degrees west</p> </div>					
<p>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.</p> <p style="text-align: center;"> <input checked="" type="radio"/> Yes      <input type="radio"/> No         </p>					
<p>10. Name of Person Signing Jennifer Warren</p>	<p>11. Title of Person Signing Vice President, Technology Policy</p>				
<p>12. Please supply any need attachments.</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Attachment 1: Exhibit A</td> <td style="width: 50%;">Attachment 2:</td> </tr> <tr> <td></td> <td>Attachment 3:</td> </tr> </table>		Attachment 1: Exhibit A	Attachment 2:		Attachment 3:
Attachment 1: Exhibit A	Attachment 2:				
	Attachment 3:				
<p style="text-align: center;">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).</p>					

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## **8. Description**

Applicant requests a 30-day extension of special temporary authority granted under File No. SAT-STA-20110404-00068, to allow for continued operation of LM-RPS1 satellite outside of E/W stationkeeping restrictions while the host satellite is temporarily located at the 133.1 degrees west longitude orbital location and drifted back to the 133 degrees west location assigned to the LM-RPS1 satellite.

**Exhibit A**

**Lockheed Martin Corp.  
Space Station STA  
LM-RPS1 (Call Sign S2372)  
September 2011**

**Description**

Lockheed Martin Corporation (“Lockheed Martin”) hereby respectfully requests special temporary authority (“STA”) to continue operating the LM-RPS1 satellite (Call Sign S2372) at a slight variance from station keeping tolerances set forth in the LM-RPS1 license, under a 30-day extension of the STA now in force in File No. SAT-STA-20110404-00068 (“RPS1 STA”).

The Galaxy 15 satellite, which is licensed for operation by Intelsat License LLC (“Intelsat”) at the 133° W.L. orbital location and is the host platform for LM-RPS1, suffered an anomaly of unknown origin in April 2010 that caused the satellite to drift eastward. In December 2010, Intelsat was able to regain control of the Galaxy 15 satellite, and later moved the satellite to a temporary holding slot at 93° W.L., where Lockheed Martin conducted successful tests of the LM-RPS1 radionavigation-satellite service (“RNSS”) payload. *See* RPS1 STA, Exhibit A at 1. Intelsat successfully completed its own tests on the Galaxy 15 satellite, and started the satellite on a westward drift to the 133.1° W.L. orbital location. *See* Intelsat License LLC STA Request for Galaxy 15, File No. SES-STA-20110228-00039, Narrative at 2 (filed February 28, 2011). The satellite arrived at the new location on April 3, 2011.

In a recent filing with the Commission, Intelsat stated its intention to begin drifting the satellite to the permanent 133.0° W.L. orbital location. Intelsat requested that the drift be allowed to commence on October 1, and would take two-to-three weeks to arrive at the 133.0° W.L. location. *See* Intelsat Request for STA to Drift Galaxy 15, File No. SAT-STA-20110915-00181, Narrative at 1 (filed September 15, 2011). Once on station at 133.0° W.L., LM-RPS1 would be back in its permanently-assigned orbital location, and the need for temporary authorization would end.

Since the recovery and testing of the Galaxy 15 satellite, Lockheed Martin has been able to use the LM-RPS1 payload in its intended manner for the provision of RNSS. Accordingly Lockheed Martin hereby requests an extension of the RPS1 STA to allow it to continue to operate the LM-RPS1 payload while at the 133.1° W.L. orbital location, and during its proposed drift eastward to 133° W.L. Although the drift is expected to take just a matter of weeks, Lockheed Martin requests a 30-day STA to allow for some slippage in the drift schedule.

Lockheed Martin has notified the GPS Directorate (operators of the co-frequency GPS system) of the status of the LM-RPS1 satellite, as required in the RPS1 STA. Lockheed Martin recognizes and accepts that all operations at variance with the LM-RPS1 license are on a non-harmful interference/non-protected basis.

Continued use of a viable LM-RPS1 satellite by Lockheed Martin is unquestionably in the public interest. The space station is part of a GPS augmentation system that has provided the Federal Aviation Administration (the sole customer of Lockheed Martin for LM-RPS1 capacity) with enhanced navigation data that is used in managing the nation's air traffic and control systems. Any denial to Lockheed Martin of the ability to provide its customer with a viable enhanced navigation service would cause a serious prejudice to the public and national interests. As long as Lockheed Martin can reliably communicate that information over LM-RPS1 without harmfully interfering with any authorized users of the spectrum, it should be allowed to do so.

On the basis of the foregoing, Lockheed Martin respectfully requests that the Commission act favorably on the instant STA request, and allow operations of LM-RPS1 to continue for an additional 30 days (i.e., until November 2, 2011), while the satellite is at 133.1° W.L. and during its drift eastward to 133° W.L.