

S2372 SAT-STA-20110202-00022
LOCKHEED MARTIN CORPORATION
LM RPS-1

IB2011000354

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File Number: SAT-STA-20110202-00022
Callsign:

File # SAT-STA-20110202-00022

Call Sign S2372 Grant Date 02/09/11

(or other identifier) Term Dates period of

From 02/05/11 To: 30 days

Approved: Stephen J. Duall

Steph J. Duall

Chief, Satellite Policy Branch

Approved by OMB
3060-0678



*with 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:
STA Extension for LM-RPS-1 (Call Sign S2372) February 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-20110202-00022
Call Sign S2372
February 9, 2011

The request of Lockheed Martin Corporation (Lockheed Martin) for a 30-day extension, commencing on February 5, 2011, of special temporary authority to operate the LM-RPS1 space station (Call Sign S2372) outside the +/-0.05° north/south and east/west station-keeping boxes previously authorized,¹ IBFS File No. SAT-STA-20110202-00022, is granted. 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. 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.
3. 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 *with conditions	File # <u>SAT-STA-20110202-00022</u>
	Call Sign <u>S2372</u> Grant Date <u>02/09/11</u> (or other identifier)
	Term Dates period of From <u>02/05/11</u> To: <u>30 days</u>
	Approved: <u>Stephen J. Duall</u> Stephen J. Duall Chief, Satellite Policy Branch

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

2. Contact	
Name:	Stephen D. Baruch
Company:	Lerman Senter PLLC
Street:	2000 K Street, NW Suite 600
City:	Washington
Country:	USA
Attention:	
Phone Number:	202-416-6782
Fax Number:	202-429-4626
E-Mail:	sbaruch@lermansenter.com
State:	DC
Zipcode:	20006 -
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 SATSTA2010122200266 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 checked="" 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 2011-03-07 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.)

Applicant requests extension of special temporary authority granted under File No. SAT-STA-20101222-00266 to allow for continued operation of LM-RPS1 satellite outside of E/W and N/S stationkeeping restrictions for an additional 30 days -- i.e., until March 7, 2011 -- during the continued recovery from an anomaly suffered by the host satellite.

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
Jennifer Warren

11. Title of Person Signing
Vice President, Technology Policy

12. Please supply any need attachments.

Attachment 1: Exhibit A

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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Exhibit A

**Lockheed Martin Corp.
Space Station STA
LM-RPS1 (Call Sign S2372)
February 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 variance from station keeping tolerances set forth in the LM-RPS1 license, under a 30-day extension of the Lockheed Martin STA now in force in File No. SAT-STA-20101222-00266 ("RPS1 STA").

The Galaxy-15 satellite, which is operated by PanAmSat Licensee Corp. ("PLC") 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, PLC was able to regain control of the Galaxy 15 satellite, and has since moved the satellite to a temporary holding slot at 93° W.L., where Lockheed Martin is conducting tests of the LM-RPS1 radionavigation-satellite service ("RNSS") payload pursuant to the RPS1 STA. *See* Lockheed Martin Letter, dated January 4, 2011, in File No. SAT-STA-20101222-00266.

Once PLC concludes its tests of the Galaxy 15 payload and subsystems, Lockheed Martin understands that PLC intends to request Commission authority to relocate Galaxy 15 to its assigned orbital location (and the assigned orbital location of LM-RPS1) at 133° W.L., or possibly to the nearby orbital location of 129° W.L. As of now, it appears that the satellite will not be moved out of its current location before March 3, 2011. *See* STA Request of Intelsat License LLC, File No. SAT-STA-20110127-00017, at Narrative.

Since the satellite has been at its current location at 93° W.L., Lockheed Martin has been able to use the LM-RPS1 payload in its intended manner for the provision of RNSS on a test and demonstration basis. Lockheed Martin requests an extension of its authority to operate the LM-RPS1 payload from the current location, and during any westward drift following completion of testing that may occur prior to the expiration of the 30-day term requested here (i.e., by March 7, 2011). Lockheed Martin will apprise the Commission of any additional developments as events warrant.

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 March 7, 2011).