


APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
STA Extension for Call Sign E050272, Napa, CA — September 2011

1. Applicant

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

SES-STA-20110905-01027  
E050272 9-7-11  
Call sign \_\_\_\_\_ Grant Date \_\_\_\_\_  
(or other identifier) Term Dates \_\_\_\_\_  
From 9-7-11 For 11-6-11  
Approved: Paul E. Adams  
with conditions



GRANTED  
International Bureau

Attachment  
SES-STA-20110905-01027  
E050272

Condition:

1. All operations shall be on an unprotected and non-harmful interference basis, i.e., Lockheed Martin Corporation shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission immediately upon notice of such interference.
2. Pursuant to Section 1.62 of the Commission's rules, continued operation of this station with Galaxy-15 under SES-STA-20110630-00783 granted to 9/5/2011 continued in effect until grant of this authorization.

**FEDERAL COMMUNICATIONS COMMISSION**

**GRANTED**

International Bureau

SES-STA-20110905-01027

Call Sign E050272 Grant Date 9-7-11

(or other identifier)

From 9-7-11 Term Dates 11-6-11

Appr. [Signature] For [Signature]

**2. Contact**

|                   |                                |                      |                          |
|-------------------|--------------------------------|----------------------|--------------------------|
| <b>Name:</b>      | Stephen D. Baruch              | <b>Phone Number:</b> | 202-416-6782             |
| <b>Company:</b>   | Lerman Senter PLLC             | <b>Fax Number:</b>   | 202-429-4626             |
| <b>Street:</b>    | 2000 K Street, NW<br>Suite 600 | <b>E-Mail:</b>       | sbaruch@lermansenter.com |
| <b>City:</b>      | Washington                     | <b>State:</b>        | DC                       |
| <b>Country:</b>   | USA                            | <b>Zipcode:</b>      | 20006 -                  |
| <b>Attention:</b> |                                | <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 SESSTA2011063000783 or Submission ID

4a. Is a fee submitted with this application?

- If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).  
 Governmental Entity     Noncommercial educational licensee  
 Other (please explain):

4b. Fee Classification    CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

- Use Prior to Grant                       Change Station Location                       Other

6. Requested Use Prior Date  
09/06/2011

7. City Napa

8. Latitude  
(dd mm ss.s h) 38 14 41.6 N

|  |  |
|--|--|
| 9. State CA  | 10. Longitude<br>(dd mm ss.s h) 122 16 45.8 W                            |
| 11. Please supply any need attachments.<br>Attachment 1: Exhibit A                      Attachment 2:                      Attachment 3:   |  |
| 12. 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.)<br><div style="border: 1px solid black; padding: 5px; margin: 10px 0;">Request for 60-day extension of STA (File No. SES-STA-20110630-00783) to permit continued operation with LM-RPS1 satellite temporarily stationed at the 133.1 degrees west longitude orbital location. See Exhibit A.</div>  |  |
| 13. 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. <input checked="" type="radio"/> Yes <input type="radio"/> No |  |
| 14. Name of Person Signing<br>Jennifer Warren  | 15. Title of Person Signing<br>Vice President, Trade Policy & Regulation |
| WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT<br>(U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION<br>(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.  
Earth Station STA  
Call Sign E050272  
September 2011**

**Description**

Lockheed Martin Corporation (“Lockheed Martin”) hereby respectfully requests special temporary authority (“STA”) to continue operating its Napa, California earth station (Call Sign E050272) at slight variance from the station’s license under a 60-day extension of the Lockheed Martin STA now in force for Call Sign E050272 in File No. SESS-STA-201110630-00783 (“July STA”).

The Galaxy 15 satellite, which is operated by Intelsat License LLC (“Intelsat”) nominally 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. After successful testing, Intelsat moved the satellite to its present temporary location at the 133.1° W.L. orbital location. There, Intelsat is operating the satellite as an in-orbit fixed-satellite service (“FSS”) spare, and Lockheed Martin is able to use the Napa earth station to access the LM-RPS1 payload for the provision of radionavigation-satellite service (“RNSS”). Intelsat has stated its intention to reload FSS communications traffic onto Galaxy 15 and have the satellite eventually resume its authorized orbital location at 133° W.L.

Lockheed Martin hereby requests an extension of the July STA to allow for continued communication by the Napa earth station with LM-RPS1 while the satellite hosting LM-RPS1 is temporarily stationed at the 133.1° W.L. orbital location – now just 0.1° away from its assigned orbital location. During the 60-day term requested in this STA, the elevation angle from the earth station to the satellite and other technical transmission parameters will be unchanged from the values Lockheed Martin was authorized to use in the July STA.

Lockheed Martin has notified the GPS Directorate (operators of the co-frequency GPS system) of the status of the LM-RPS1 satellite, as required. Lockheed Martin confirms that it has coordinated at-variance operations of LM-RPS1 with the GPS Directorate for the duration of the requested STA term. Lockheed Martin recognizes and accepts that all operations at variance with its license for Call Sign E050272 are on a non-harmful interference/non-protected basis.

Continued use of a viable LM-RPS1 satellite via the Napa earth station by Lockheed Martin is in the public interest. The LM-RPS1/E050272 network is part of a GPS augmentation system that provides 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 data would cause a serious prejudice to the public and national interests. As long as Lockheed Martin can reliably communicate that information over LM-

RPS1 via its Napa earth station without harmfully interfering with any authorized users of the spectrum, it should be allowed to do so.

For the reasons provided above, Lockheed Martin respectfully submits that a 60-day STA (i.e., until November 4, 2011) to allow Lockheed Martin to continue operating its Napa earth station (Call Sign E050272) with LM-RPS1 is appropriate.

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