

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Request for 30-Day STA re

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 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		



File # SES-STA-20130122-00078  
E7541  
Call Sign \_\_\_\_\_ Grant Date 2-4-13  
(or other identifier)  
From 2-5-13 Term Dates To: 2-6-13  
Approved: Paul E. Hays

Applicant: Lockheed Martin Corporation  
Call Sign: E7541  
File No.: SES-STA-20130122-00078  
Special Temporary Authority (STA)

Lockheed Martin Corporation is granted STA, under special operating conditions, to use its fixed earth station E7541 in Carpentersville, New Jersey from February 5, 2013 to March 6, 2013 to provide telemetry, tracking and control (TT&C) functions during the post-launch and early orbit phase ("LEOP") services for the Amazonas 3, a Brazilian-licensed satellite, destined for the 63 ° W.L. orbital location, on the following center frequencies: 14.0015 GHz and 14.4940 GHz (Earth-to-space) and 11.70025 GHz and 12.1995 GHz (space-to-Earth), under the following conditions:

1. E7541, 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(s) immediately upon notice of such interference.
2. In the event that there is a report of interference, Intelsat License LLC must immediately terminate transmissions and notify the FCC in writing.
3. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Lockheed Martin Corporation's applications.
4. The LEOP operations must be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path. All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs. Currently the 24x7 contact information for the Amazonas 3 LEOP mission is as follows: Mr. Usarzewicz can be reached at the following cell phone number: (609)-865-2658 and/or station number: (908) 859-4050.
5. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Lockheed Martin Corporation's risk.
6. 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.

		File # <u>SES-STA-20130122-00078</u>	
		Call Sign: <u>E7541</u>	Grant Date: <u>2-4-13</u>
(or other identifier)		Term Dates	
From: <u>2-5-13</u>	To: <u>3-10-13</u>		
Approved:			

GRANTED  
Special Temporary Authority

**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 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 -1809
<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 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

02/05/2013

7. City Carpentersville

8. Latitude

(dd mm ss.s h)    40   38   39.1   N

9. State NJ	10. Longitude (dd mm ss.s h) 75 11 27.8 W
11. Please supply any need attachments. Attachment 1: Narrative Exhibit                      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.) <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">Lockheed Martin Corp. requests a 30-day STA to use the Ku-band antenna on its Carpentersville, NJ earth station (Call Sign E7541) to support post-launch/early-operations (LEOp) TT&amp;C for the Amazonas 3 satellite. The Amazonas 3 satellite is scheduled to be launched on February 7, 2013, and two days for calibration testing leads</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 Jennifer Warren	15. Title of Person Signing Vice President, Technology Policy & Regulation
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-PER, 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.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

**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.**

## **12. Description**

Lockheed Martin Corp. requests a 30-day STA to use the Ku-band antenna on its Carpentersville, NJ earth station (Call Sign E7541) to support post-launch/early-operations (LEOp) TT&C for the Amazonas 3 satellite. The Amazonas 3 satellite is scheduled to be launched on February 7, 2013, and two days for calibration testing leads to a requested use prior date of February 5, 2013. A 30-day STA is requested to accommodate possible launch delays.

**Lockheed Martin Corporation  
Carpentersville, New Jersey Earth Station STA  
January 2013  
Attachment**

**Description**

Lockheed Martin Corporation (“Lockheed Martin”) requests special temporary authority (“STA”) to operate its Carpentersville, New Jersey Ku-band fixed earth station (see File No. SES-LIC-20081103-01443, as amended) to provide telemetry, tracking and control (“TT&C”) functions during the post-launch and transfer orbit phases of operation for the Amazonas 3 satellite.<sup>1</sup> Amazonas 3, a Brazilian-licensed satellite destined for the 61° W.L. orbital location, is currently scheduled for launch on February 7, 2013, and Lockheed Martin would need to begin test transmissions in preparation for the launch approximately on or about February 5, 2013.<sup>2</sup>

Lockheed Martin specifically seeks authority to transmit telecommand signals on the 14.0015 GHz and 14.4940 GHz frequencies and to receive telemetry signals from the satellite on the 11.70025 GHz and 12.1995 GHz frequencies. Lockheed Martin is requesting the duration of this STA to be 30 days from February 5, 2013, in the event of any slippage in the anticipated dates of the various phases of operation; it also expects that all Carpentersville operations in support of the launch will be completed for Amazonas 3 within 10 days after the satellite is launched.

Both of the transmit frequencies Lockheed Martin seeks to use for the Amazonas 3 TT&C LEOP support operations are included in Lockheed Martin’s former license for Call Sign E920702 and current application for the Ku-band antenna in File No. SES-LIC-20081130-01443 (under Call Sign E7541). Lockheed Martin’s proposed transmissions on both transmit frequencies will use the emission designators for telecommand that are proposed in the pending license application, or will use carriers that do not exceed the highest e.i.r.p., e.i.r.p. density, and bandwidth prescribed in the application for the telecommand carriers. When no commands are being sent, a CW carrier that is within the emission envelope proposed in Lockheed Martin’s application, as amended, would be present. See File No. SES-AMD-20081219-01664, at Schedule B. The information in the Schedule B portion of Lockheed Martin’s pending application in File No. SES-LIC-20081130-01443, as amended, is hereby incorporated by reference.

Both of the frequencies on which satellite telemetry transmissions from Amazonas 3 will be received under the STA requested here are also included as receive frequencies in Lockheed

---

<sup>1</sup> The pending application in File No. SES-LIC-20081103-01443, under Call Sign E7541, was filed on a provisional basis to replace Lockheed Martin’s inadvertently non-renewed license for a 14.2 meter Ku-band antenna at the Carpentersville, NJ site under Call Sign E920702. Lockheed Martin’s petition to reinstate the license for Call Sign E920702, as well as the “replacement” application it filed in the alternative under File No. SES-LIC-20081103-01443 and Call Sign E7541, are pending.

<sup>2</sup> The test transmissions that would begin on or about February 5 would occur over a period of approximately two days. During these tests, the earth station would not be communicating with any satellite; instead, the transmissions will be made with the antenna at zenith to verify RF functionality.

Martin's Ku-band authorization under Call Sign E920702 and application under Call Sign E7541. Both frequencies are also as proposed in Hispamar Satellites, S.A.'s pending petition for a declaratory ruling to add the Amazonas 3 satellite to the Commission's Permitted Space Station List. *See* Application of Hispamar Satellites, S.A., File No. SAT-PPL-20121018-00183. Hispamar Satellites, S.A.'s petition has been accepted for filing. In the Ku-band, the Amazonas 3 satellite is a replacement for Amazonas 1, which is on the Commission's Permitted Space Station List. All of Lockheed Martin's proposed TT&C operations in support of the Amazonas 3 launch will be on a strictly non-harmful interference, non-protected basis.

Lockheed Martin believes that the limited operations it proposed in support of the launch of Amazonas 3 satellite – operations Lockheed Martin and the satellite operator will coordinate in advance with any and all potentially affected entities that operate communications systems in compliance with the Table of Frequency Allocations during the limited period of use – are required in the public interest. Lockheed Martin's earth station will be part of a global network of control facilities that will be used to position the satellite as it progresses from transfer orbit to its final location. The safe and orderly use of the entire geostationary orbital resource and protection of the hundreds of satellites from the U.S. and other countries that operate there depends in no small part on ensuring that the Amazonas 3 satellite is controlled while over North America, and Lockheed Martin's earth station thus will serve a limited-duration, but nonetheless vital function.

Lockheed Martin designates Michael Usarzewicz to be the contact person that will be available whenever transmission to, or reception from, Amazonas 3 is to occur through the subject earth station. Mr. Usarzewicz can be reached at the following cell phone number: (609)-865-2658 and/or station number: (908) 859-4050.

The antenna to be used for this STA is already built. It is the same antenna that was previously authorized under Call Sign E920270 and that is now the subject of the pending application and reinstatement request described in Note 1 above, and has been used on an STA-basis to support other satellite launches. *See, e.g.* Request of Lockheed Martin Corp. for STA to operate Carpentersville, NJ earth station in support of launch of JCSAT-12, File No. SES-STA-20090615-00734. For this reason, Lockheed Martin does not provide a new analysis of non-ionizing radiation for the antenna, or any of the detailed transmission/reception parameters for the signals. Instead, Lockheed Martin incorporates by reference the radiation hazard study and Schedule B information that were included with the November 2008 modification application in File No. SES-LIC-20081103-01443, as amended.

In sum, Lockheed Martin requests authority to operate its Carpentersville, NJ Ku-band earth station antenna to provide critical TT&C services during the launch and early operations phase of the Amazonas 3 satellite, for a term of 30 days commencing February 5, 2013.