Approved by OMB 3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATIONEnter a description of this application to identify it on the main menu: LM-STA E7541/E920702 - Intelsat 15 LEOp STA

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

With conditions

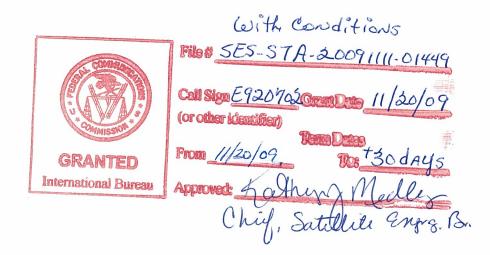
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Ohig, Satellite Engrs.

Attachment

Conditions:

- A) Lockheed Martin shall notify the Commission in writing within 48 hours of commencing operation under this authorization.
- B) All operations are on a non-protected, non-interference basis.
- C) Lockheed Martin shall coordinate its operations with neighboring satellites with \pm 6 degrees of its orbital location.
- D) Lockheed Martin shall immediately cease operations if interference is reported.



2. Contact			
Name:	Stephen D. Baruch	Phone Number:	202-416-6782
Company:	Lerman Senter PLLC	Fax Number:	202–429–4626
Street:	2000 K Street, N.W.	E-Mail:	sbaruch@lermansenter.com
	Suite 600		
City:	Washington	State:	DC
Country:	USA	Zipcode:	20006 –
Attention:		Relationship:	Legal Counsel
(If your application is related to an application. Please enter only one.) 3. Reference File Number SESLIC	application filed)))2008110301443	with the Commission, enter either the or Submission ID	file number or the IB Submission ID of the related
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).	(see 47 C.F.R.Section 1.1114).
O Governmental Entity	Noncommercial educational licensee	nal licensee	
Other(please explain):):		
4b. Fee Classification (CGX - Fixed Satellite Transmit/Receive Earth Station	eceive Earth Station	
5. Type Request			
O Use Prior to Grant	O Char	Change Station Location	Other
6. Requested Use Prior Date 11/20/2009	Pate		
7. CityCarpentersville		8. Latitude (dd mm ss.s h)	40 38 39.1 N

	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).	WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Tit	WILLFUL FALSE STATE (U.S. Code, Titl (U.S. Code, Ti
	15. Title of Person Signing Vice President, Technology Policy & Regulation		14. Name of Person Signing Jennifer A. Warren
	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.	ed certifies that neither applicant nots that includes FCC benefits pursuance of a conviction for possessioning of ",party to the application	13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the appli subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the A: of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlle See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.
	of proposed operation.	See Attachment for details of proposed operation.	November 2009). See .
	enna for provision of TT&C services during	STA to permit operation of 14.2m Ku-band antenna for provision of launch and transfer orbit operations of Intelsat 15 spacecraft (1	STA to permit operation launch and transfer o
L	(If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)	escription does not appear in this b	12. Description. (If the complete d
	Attachment 3:	Attachment 2:	Attachment 1: Description
		ents.	11. Please supply any need attachments
	10. Longitude (dd mm ss.s h) 75 11 27.8 W		9. State NJ

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1, 1995, 44 U.S.C. SECTION 3507. THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER Lockheed Martin Corporation Carpentersville, New Jersey Earth Station STA November 2009 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 Intelsat 15 satellite. Intelsat 15 is currently scheduled for launch on November 29, 2009, and Lockheed Martin would need to begin test transmissions in preparation for the launch approximately on or about November 20, 2009. Lockheed Martin specifically seeks authority to transmit telecommand signals on the 14.0020 GHz and 14.0045 GHz frequencies and to receive telemetry signals from the satellite on the 11.6980 GHz and 11.6990 GHz frequencies. Lockheed Martin is requesting the duration of this STA to be 30 days from November 20, 2009, in the event of any slippage in the anticipated dates of the various phases of operation, and expects that all Carpentersville operations in support of the launch will be completed for Intelsat 15 within 10 days after the satellite is launched.

Both of the transmit frequencies Lockheed Martin seeks to use for the Intelsat 15 TT&C 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.

The satellite transmissions from Intelsat 15 will take place on the 11.6980 GHz and 11.6990 GHz frequencies, as proposed in Intelsat's pending application for the Intelsat 15 satellite in File No. SAT-LOA-20090410-00043, as amended. See Application of Intelsat North America, LLC for Intelsat 15, File No. SAT-LOA-20090410-00043, Engineering Statement at §

¹ 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.

² The test transmissions that would begin on or about November 20 would occur over a period of approximately five 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.

2.7.3 (p. 13 of 95).³ All of Lockheed Martin's proposed TT&C operations in support of the Intelsat 15 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 Intelsat 15 -- 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 Intelsat 15 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, Intelsat 15 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 Intelsat 15 satellite, for a term of 30 days commencing November 20, 2009.

³ Lockheed Martin notes that the LEOP telemetry downlink transmissions will use circular polarization.