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

1. Applicant

Name:

Lockheed Martin Corporation

Phone Number:

703-413-5970

DBA Name:

Fax Number:

703-413-5908

Street:

1550 Crystal Drive

E-Mail:

jennifer.warren@lmco.com

Suite 300

City:

Arlington

State:

VA

Country:

USA

Zipcode:

22202

Attention:

Ms Jennifer Warren

GRANTED International Bureau

Call Sign

(or other identifier)

Attachment

SES-STA-20090615-00734

Condition:

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.

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Chief sablix Engrs Ar.	Approved: Katha Meller	From 7/21/09 To: 10/21/09	(or other identifier)	Call Sign Grant Date 7/20/09	File # SES-57A-2009 06/5-00 734

With Condition

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	
application. Please ente 3. Reference File Num 4a. Is a fee submitted If Yes, complete and Governmental Entit Other(please explain	r only one.) ber SESLIC2008110301443 of with this application? d attach FCC Form 159. If N ty Noncommercial educan):	or Submission ID o, indicate reason for fee exemptional licensee	n (see 47 C.F.R.Section 1.1114).	
4b. Fee Classification	CGX - Fixed Satellite Transm	it/Receive Earth Station		
5. Type Request O Use Prior to Grant	o (Change Station Location	Other	
6. Requested Use Prior 07/21/2009	Date			
7. CityCarpentersville		8. Latitude (dd mm ss.s h)	1	

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.)					
STA to permit operation of 14.2m Ku-band antenna for provision of TT&C services during launch and transfer orbit operations of JCSAT-12. See Attachment for details of proposed operation.					
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.					
14. Name of Person Signing Jennifer A. 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).					

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Lockheed Martin Corporation Carpentersville, New Jersey Earth Station STA June 2009 Attachment

Description

Martin would need to begin test transmissions in preparation for the launch approximately on or about July 21, 2009.² Lockheed Martin specifically seeks authority to transmit telecommand signals on the 14.496 GHz and 13.9935 GHz (on-orbit contingency only) frequencies and to expects that all station operations will be completed for JCSAT-12 within 30 days after the in the event of any slippage in the anticipated dates of the various phases of operation, and receive telemetry signals from the satellite on the 12.74835 GHz and 12.74975 GHz frequencies. satellite. ICSAT-12 is currently scheduled for launch on August 18, 2009, and Lockheed functions during the post-launch and transfer orbit phases of operation for the JCSAT-12 satellite is launched. SES-LIC-20081103-01443, as amended) to provide telemetry, tracking and control ("TT&C") ("STA") to operate its Carpentersville, New Jersey Ku-band fixed earth station (see File No. Lockheed Martin is requesting the duration of this STA to be three months from July 21, 2009, Lockheed Martin Corporation ("Lockheed Martin") requests special temporary authority

no commands are being sent, the CW carrier (3M00N0N) would be present. See File No. SESsupport operations, only the 14.496 GHz frequency is included in Lockheed Martin's former incorporated by reference. Specifically, transmissions would use the 3M00F3D and 3M00G7D emission designators. When emission designators for telecommand that are proposed in the pending license application. proposed transmissions on both the 14.496 GHz and 13.9935 GHz frequencies will use the license for Call Sign E920702 and current application for the Ku-band antenna in File No. SES-Martin's pending application in File No. SES-LIC-20081130-01443, as amended, is hereby AMD-20081219-01664, at Schedule B. The information in the Schedule B portion of Lockheed LIC-20081130-01443 (under Call Sign E7541). Lockheed Martin emphasizes, however, that its Of the transmit frequencies Lockheed Martin seeks to use for the JCSAT-12 TT&C

Section 25.204(f) of the Commission's Rules (which specifies that the e.i.r.p. of any emission limited to 85 dBW, in order to ensure that operations on that frequency are compliant with GHz frequency. For the 13.9935 GHz frequency, the maximum EIRP per carrier would be from a 13.75-14 GHz band earth station must be at least 68 dBW and not more than 85 dBW, The maximum EIRP per carrier would be as specified in the Schedule B for the 14.496

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. The pending application in File No. SES-LIC-20081103-01443, under Call Sign E7541, was filed on a provisional

earth station would not be communicating with any satellite; instead, the transmissions will be made with the ² The test transmissions that would begin on July 21 would last for approximately five days. During these tests, the antenna at zenith to verify RF functionality.

systems to gateway earth station operations. See 47 C.F.R. § 25.202(a)(1), Note 12. the Commission's Rules, which limits the use of the 13.75-14 GHz uplink by non-geostationary meter Ku-band antenna at the Carpentersville facility is consistent with Section 25.202(a)(1) of that has not yet reached geostationary orbit, Lockheed Martin notes that such use of the 14.2 be used until the spacecraft is on station over Japan (i.e., transmissions to the satellite would not be conducted from the Lockheed Martin earth station). To the extent that any immediate post-launch and transfer-orbit operations on the 13.9935 GHz frequency could be with a spacecraft operations for the JCSAT-12 satellite proceed as planned, this telecommand frequency would not with a minimum antenna diameter of 4.5 meters). 47 C.F.R. § 25.204(f). The 13.9935 GHz frequency in included in this STA request is on a contingency basis. If the transfer orbit

used to position the satellite as it progresses from transfer orbit to its final location. The safe and advanced, a waiver grant to Lockheed Martin is appropriate. thus will serve a limited-duration, but nonetheless vital function. Under these circumstances, JCSAT-12 satellite is controlled while over North America, and Lockheed Martin's earth station from the U.S. and other countries that operate there depends in no small part on ensuring that the orderly use of the entire geostationary orbital resource and protection of the hundreds of satellites Lockheed Martin's earth station will be part of a global network of control facilities that will be of Frequency Allocations during the limited period of use – are required in the public interest. potentially affected entities that operate communications systems in compliance with the Table operations - which it and the satellite operator will coordinate in advance with any and all the Carpentersville earth station, on a limited duration basis. Lockheed Martin believes that such 25.202(a)(1) of the Commission's Rules to permit it to receive these signals from JCSAT-12, at Region 2 and the United States, Lockheed Martin requests a waiver of Section 2.106 and Section reception of telemetry signals at 12.74 GHz is inconsistent with the allocation table in both ITU (where the JCSAT-12 is intended for permanent operation at around 128° E.L.). Because the the 12.7-12.75 GHz band is allocated for FSS (space-to-Earth) operations in ITU Region 3 telemetry receive operations on 12.74835 GHz and 12.74975 GHz, Lockheed Martin notes that will be on a strictly non-harmful interference, non-protected basis. With respect to the proposed where the purpose of the allocation rules is not contravened and the public interest is clearly All of Lockheed Martin's proposed TT&C operations in support of the JCSAT-12 launch

earth station. Mr. Usarzewicz can be reached at the following cell phone number: (609)-865available whenever transmission to, or reception from. JCSAT-12 is to occur through the subject 2658 and/or station number: (908) 859-4050. Lockheed Martin designates Michael Usarzewicz to be the contact person that will be

included with the November 2008 modification application in File No. SES-LIC-20081103detailed transmission/reception parameters for the signals. Instead, Lockheed Martin Martin does not provide a new analysis of non-ionizing radiation for the antenna, or any of the application and reinstatement request described in Note 1 above. For this reason, Lockheed previously authorized under Call Sign E920270 and that is now the subject of the pending 01443, as amended incorporates by reference the radiation hazard study and Schedule B information that were The antenna to be used for this STA is already built. It is the same antenna that was

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 JCSAT-12 satellite, for a term of three months commencing July 21, 2009.

Attachment 1 to this Exhibit contains Lockheed Martin's requests for waivers of Sections 25.137 and 25.114 of the Commission's Rules.

Requests for Waivers of Sections 25.114 and 25.137

Lockheed Martin will be providing through its earth station as part of a global TT&C network. of space station applicants. As explained below, a waiver of both Section 25.137 and Section provide the same technical information that Section 25.114 of the Commission's Rules requires the United States must demonstrate that effective competitive opportunities exist and must station applicants requesting authority to operate with a non-U.S. licensed space station to serve 25.114 is appropriate here for the launch and transfer-orbit phase TT&C operations that Section 25.137 of the Commission's Rules, 47 C.F.R. § 25.137, specifies that earth

duration basis, and will cease once the JCSAT-12 satellite moves out of view of the support services that would be provided under this STA to the Japanese operator of the JCSATservices as part of global network of TT&C operators for the spacecraft. using the Carpentersville, NJ Ku-band antenna to provide post-launch and transfer-orbit TT&C that serves Japan. Lockheed Martin is not the operator of the JCSAT-12 satellite, and will be 12 satellite are to be provided through the Carpentersville, NJ earth station on a very limited facilities for a Japanese satellite services provider. Lockheed Martin emphasizes that the TT&C integrity of a newly-launched satellite, manufactured in the United States at Lockheed Martin Carpentersville, New Jersey earth station and toward its permanent home in an orbital location Lockheed Martin is seeking to provide mission-critical services to ensure the operational

important manufacturing jobs in the United States and reduce the trade deficit. satellite manufacturer to meet the requirements of its overseas customers - and thus helps retain public interest would also be advanced by the fact that the STA promotes the ability of a U.S. there is a secure space object and no interruptions of others' use of the geostationary arc. would not undermine the rule's purpose, and the public interest would clearly be advanced when Lockheed Martin's fleeting post-launch/transfer-orbit use. Grant of a waiver to Lockheed Martin opportunities, the underlying rule was not designed or intended to be applied to situations such as for JCSAT-12) is a WTO member, and thus is presumed to provide effective competitive destination on the geostationary arc. Despite the fact that Japan (the authorizing administration will be receiving telecommands as it is being moved from its orbital injection point to its with Lockheed Martin's earth station; instead, the satellite will be providing telemetry data and are not relevant here, JCSAT-12 will not be providing any "services" while in communication services in other countries. 47 C.F.R. § 25.137(a). Competitive opportunities for U.S. licensees proposed STA, the rule provisions should be waived. Section 25.137 is designed to ensure that U.S.-licensed satellite systems have effective competitive opportunities to provide analogous If Section 25.137 and Section 25.114 are deemed applicable to Lockheed Martin's

25.114 and the associated Schedule S data elements pertain to a spacecraft that is in its non-geostationary orbit on a very small subset of its ultimate communications payload. will be providing telecommand and telemetry information for a satellite that is operating in a respect to Lockheed Martin's proposed post-launch/transfer-orbit operation. Lockheed Martin is required by Section 25.114 of the Commission's Rules is not needed or even useful with For similar reasons, the comprehensive data submission for space-station applicants that

operational configuration on the geostationary arc. The information requested in Section 25.114 satellite while it is in non-geostationary orbit or in orbit at a non-permanent location. is thus not relevant to the limited-duration communications that will occur with the JCSAT-12

obtaining the information required by Section 25.114 would both be a burden on Lockheed band (there are no radioastronomy sites potentially affected by operation of the Carpentersville, NJ facility in the 14.47-14.5 GHz portion of the band). Under these circumstances, where Lockheed Martin will take every precaution to ensure the protection of government radiolocation facilities that operate in the upper portion of the 13.75-14 GHz band, and will of Section 25.114 is warranted. information (i.e., the prevention of harmful interference), waiver of the information requirements Martin and not advance in any way the purpose for which the Commission's rules require such coordinate with any potentially affected satellite operators in the upper part of the 14-14.5 GHz