Date & Time Filed: Sep 14 2005 1:40:31:226PM File Number: SAT-STA-20050914-00177

Callsign: \$2372

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:

LM-RPS1 IOT STA

1. Applicant

Name: Lockheed Martin Corporation Phone Number:

301-897-6000

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Attention:

Ms Jennifer A Warren

S2372

SAT-STA-20050914-00177 Lockheed Martin Corporation

IB200500211

RNSS

(or other identifier)

Attachment

File No. SAT-STA-20050914-00177 Call Sign: S2372 October 7, 2005

Lockheed Martin Corporation's request for special temporary authority to perform inorbit testing of its LM-RPS1 payload at 150.0° W.L. for a period of 30 days IS GRANTED. Accordingly, Lockheed Martin Corporation is authorized to perform inorbit testing of its LM-RPS1 payload for the period of 30 days commencing with the date that the LM-RPS1 payload arrives at the 150.0° W.L. orbital location, in accordance with the terms, conditions, and technical specifications set forth in its application, this Attachment and the Federal Communications Commission's Rules.

- Lockheed Martin Corporation shall coordinate its operations so that no unacceptable interference shall be caused to any other lawfully operating satellites or radiocommunication systems, including, but not limited to, all existing Radionavigation Satellite Service (RNSS) satellites and the U.S. Global Positioning System (GPS) non-geostationary satellites.
- In the event that any unacceptable interference does occur, Lockheed Martin Corporation shall cease operations immediately and inform the Commission in writing of such event.
- Lockheed Martin Corporation is required to accept interference from other lawfully operating satellites or radiocommunication systems.
- 4) During the in-orbit testing, Lockheed Martin Corporation shall operate the LM-RPS1 payload in compliance with all existing coordination agreements with U.S. government systems.
- This action is used pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release. Petitions for reconsideration under Section 1.106 or applications for review under Section 1.115 of the Commission's rules, 47 C.F.R. §§ 1.106, 1.115, may be filed within 30 days of the date of the public notice indicating that this action was taken.



2. Contact				
Name:	Stephen D. Baruch	Phone Number:	202-416-6782	
Company	y: Leventhal Senter & Lerman PLLC	Fax Number:	202-429-4626	
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City:	Washington	State:	DC	
Country:	USA	Zipcode:	20006 -	
Attention	1:	Relationship:	Legal Counsel	
	ted with this application? and attach FCC Form 159. If No, indi- ntity Noncommercial educational lain):		n (see 47 C.F.R.Section 1.1114).	
-	CRY - Space Station (Geostationary)		
5. Type Request				
O Change Station	Location	Expiration Date	⊚ Other	
6. Temporary Orbit L 150 deg. W.I		7. Requested Ex	stended Expiration Date	

Special Temporary Authority	tuant to Section 25.120 of the Commission's Rules, requests to conduct in-orbit testing of its RNSS space station (Call W.L. orbital location prior to placement on station at 133
a denial of Federal benefits that includes Fe	that neither applicant nor any other party to the application is subject CC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, on for possession or distribution of a controlled substance. See 47 CFR the application" for these purposes.
a denial of Federal benefits that includes For 1 U.S.C. Section 862, because of a conviction	CC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, on for possession or distribution of a controlled substance. See 47 CFR
o a denial of Federal benefits that includes For a denial of Federal benefits that includes For I U.S.C. Section 862, because of a conviction. 2002(b) for the meaning of " party to the section of Person Signing	CC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, on for possession or distribution of a controlled substance. See 47 CFR the application" for these purposes. 11. Title of Person Signing

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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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.

REQUEST OF LOCKHEED MARTIN CORPORATION FOR SPECIAL TEMPORARY AUTHORITY TO CONDUCT IN-ORBIT TESTING OF THE RPS-1 SPACE STATION

Lockheed Martin Corporation ("Lockheed Martin"), pursuant to Section 25.120 of the Commission's Rules, 47 C.F.R. § 25.120, hereby requests Special Temporary Authority ("STA") to conduct in-orbit testing ("IOT") of its Radionavigation-Satellite Service ("RNSS") space station, RPS-1, at the 150° W.L. orbital location. LM seeks an STA for a period of thirty (30) days, beginning on the date that the RPS-1 space station arrives at the 150° W.L. orbital location. That date is expected to be in early October 2005, more than three working days after the date of this filing.

The Commission has authorized Lockheed Martin to launch the RPS-1 space station and to operate it at the 133° W.L. orbital location. The RPS-1 RNSS space station is being hosted on PanAmSat Licensee Corp.'s ("PanAmSat") Galaxy 15 satellite, for which PanAmSat holds Commission authority to launch and operate in the fixed-satellite service ("FSS"). On August 18, 2005, PanAmSat applied for an STA to operate the Galaxy 15 satellite for thirty days at 150° W.L. for purposes of IOT. PanAmSat indicated that it is unable to conduct IOT for Galaxy 15 at its assigned orbital location (also 133° W.L.) because doing so would interfere with ongoing services. Although testing of the RPS-1 RNSS space station that is hosted on Galaxy 15 at the 133° W.L. location would not interfere with ongoing RNSS space-to-Earth services, RPS-1 is a hosted payload, and therefore Lockheed Martin will need to conduct IOT from the same location that is used by Galaxy 15 – in this case, 150° W.L. Accordingly, Lockheed Martin seeks authority to operate RPS-1 at 150° W.L. for purposes of IOT. Lockheed Martin does not contemplate requesting regular authority to operate RPS-1 at the 150° W.L. orbital location. See 47 C.F.R. § 25.120(b)(4).

Good cause exists for the grant of Lockheed Martin's requested STA:

- PanAmSat is conducting TT&C functions for the Galaxy 15 satellite that hosts RPS-1, and has stated that IOT for Galaxy 15 cannot be conducted at 133° W.L. without disrupting current PanAmSat customers and ongoing services. Grant of the instant request will thus further the public interest by providing for the continuity of service.
- The 150° W.L. orbital location can accommodate testing of the spacecraft's TT&C payload, the C-band payload, and RPS-1 with no interference to other GSO satellites.

See Lockheed Martin Corp., DA 05-1747 (Int'l. Bur., released June 23, 2005).

Application of PanAmSat Licensee Corp. for Special Temporary Authority, File No. SAT-STA-20050818-00162 (filed August 18, 2005).

³ Id. at Attachment.

- Testing of the RPS-1 payload, which transmits exclusively in the RNSS bands at 1565.17-1585.67 MHz and 1166.20-1186.70 MHz, is functionally similar to the testing of the Galaxy 15 FSS payloads, and can expeditiously be performed with the Galaxy 15 testing at 150° W.L. Lockheed Martin wishes to take advantage of the concurrent testing available at the 150° W.L. location.
- PanAmSat is the TT&C controller for the Galaxy 15 spacecraft (i.e., the satellite bus and all of the payloads). The testing of Galaxy 15's C-band payload and the TT&C operations will be performed with co-located equipment at PanAmSat's Fillmore, California earth station. Testing of RPS-1 will be performed at Lockheed Martin's Napa, California earth station (for which separate transmit authority is to be sought) in conjunction with TT&C operations being conducted from PanAmSat's Fillmore facility.

Lockheed Martin emphasizes that grant of the requested STA will present no risk of interference to other authorized users of the frequencies assigned to Lockheed Martin. There are several RNSS satellite networks and systems – including the U.S. Global Positioning System ("GPS") non-geostationary satellite orbit RNSS system – that currently operate on frequencies that overlap with RPS-1 in the 1565.17-1585.67 MHz band, and there is only one RNSS satellite network that currently operates on frequencies that overlap with RPS-1 in the 1166.20-1186.70 MHz band. Because RNSS systems and networks have ubiquitous coverage of the earth, there is a potential for interference from an RNSS network located at any given satellite orbital location. Lockheed Martin understands its obligation to coordinate its use of RNSS frequencies with all RNSS systems and networks potentially affected by its temporary operation for IOT purposes at 150° W.L. In this regard, Lockheed Martin has coordinated with the GPS Joint Program Office on the temporary operation of RPS-1 at 150° W.L. It will do the same for any potentially affected non-U.S. RNSS networks.

For the foregoing reasons, Lockheed Martin respectfully requests an STA that enables it to conduct IOT of the RPS-1 RNSS space station at the 150° W.L. orbital location for a period of 30 days after arrival of the Galaxy 15 satellite at that location.