

## **Lockheed Martin TSAT Demonstration Justifications for Expediting the FCC License**

Lockheed Martin Integrated Systems & Solutions is requesting expedited processing of its Experimental License request for the fixed 2.4m Ku-band antenna that will be used in a Proof-of-Concept demonstration to the U.S. Air Force MILSATCOM Wing and to representatives from other branches of the U.S. military from March 20 to April 20, 2007.

Lockheed Martin is currently under contract for the risk reduction and system definition phase of the DoD's Transformational Communications Satellite (TSAT) Space Segment program. The TSAT Space Segment Design Review (SSDR) will be conducted in Sunnyvale, California on April 17-19, 2007. The request for proposal (RFP) for the development and production phase of the TSAT space segment will be released in early May at which point, Lockheed Martin will no longer be able to conduct demonstrations for the customer.

As part of the SSDR activities, Lockheed Martin will be demonstrating a Proof-of-Concept satellite communications-on-the-move system in support of the TSAT space segment design, with an 18" motion-stabilized Ku-band antenna mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV) that will be communicating with a fixed 2.4m Ku-band antenna, both being operated at Lockheed Martin's Space Systems facility in Sunnyvale, CA. A separate Experimental License for the 18" antenna has already been filed. The current Experimental License is for the companion fixed 2.4m antenna.

Grant of this expedited license request would allow Lockheed Martin to conduct a live satellite demonstration of these critical communications-on-the-move (COTM) terminals and design concepts required by the DoD in time for the U.S. military audience to evaluate them before the RFP is issued.