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**LOCKHEED MARTIN**  
GLOBAL TELECOMMUNICATIONS



**Robert A. Mansbach**  
Assistant General Counsel

April 10, 2001

Mr. James Burtle  
Chief,  
Experimental Licensing Branch  
Office of Engineering & Technology  
Federal Communications Commission  
445 12<sup>th</sup> Street, S.W.  
Washington, D.C. 20554

RE: Request for Special Temporary Authority

Dear Mr. Burtle:

Lockheed Martin Global Telecommunications World Systems (LMGT World Systems) herein requests a grant of Special Temporary Authority from April 23, 2001-October 23, 2001 or until grant of its underlying application for experimental license filed today, to enable it to provide INTELSAT space segment capacity in the 6/4 GHz and 14/11 GHz frequency bands to and from seagoing vessels in the maritime environment on a non-interference basis via INTELSAT satellites in the Atlantic (AOR), Pacific (POR) and Asia-Pacific (APR) Regions. In support of its request for Special Temporary Authority, LMGT World Systems submits the following information.

LMGT World Systems proposes to provide INTELSAT space segment in the maritime environment to conduct an experimental program primarily designed to support the health and welfare of U.S. Navy personnel and to develop new communications capabilities for seagoing vessels. As a by-product of this experimental program, LMGT World Systems expects to derive additional information related to the use of FSS frequencies in the maritime environment. This information will assess service quality using C- and Ku-band frequencies in the maritime environment and will assist in the development of C- and Ku-band antennas for use on seagoing vessels. As information emerges concerning these experiments, LMGT World Systems will make submissions to the Commission reporting on developments.

As noted above, the experimental program is designed in large part, to meet the needs of the U.S. Navy. During the period of experimental authority, LMGT World Systems proposes to provide broadcast news and entertainment directly to sailors and Marines aboard U.S. navy ships at sea. In addition to a full-time news channel and full-time entertainment channel, LMGT proposes to provide a digitally compressed AFRTS signal which includes three audio/radio services with news, commentary and music, and one 128 Kbps data service carrying daily the "Stripes Lite" newspaper, the Early Bird news and the U.S. Navy command internal information.

The primary objectives of this experimental program will be:

to develop and establish the commercial wideband satellite communications architecture in the AOR, POR and APR, achieving worldwide connectivity for deployed Naval forces;

to develop the feasibility studies and recommendations for the long-range commercial wideband satellite communications architecture supporting worldwide deployed Naval forces; and

to develop the requisite expertise in the Space and Naval Warfare Systems Command (SPAWAR) to develop a worldwide commercial wideband satellite communications network.

Applications will include:

Full period ship-to-shore and shore-to-ship T1 carriers;  
Video services;  
Broadcast news and Entertainment;  
Voice services (including secure and other military transmissions); and  
Internet services

LMGT World Systems also proposes to provide INTELSAT space segment capacity to ships of the commercial cruise industry located in the AOR, POR and APR which have obtained the necessary Part 5 approvals from the Commission. In this regard, LMGT World Systems will conduct tests determining the feasibility of providing voice, fax, data and video on a non-interference basis, to and from seagoing vessels. Again, all operations will be on a non-interference basis.

LMGT World Systems respectfully submits that a grant of its request for Special Temporary Authority will promote the public

interest as it will assist the serving men and women of the armed forces; foster the development of new services; and contribute valuable information on the use of FSS frequencies in the maritime environment. We understand that the authority granted by the Commission will be conditioned on harmful interference not being caused to services operating in accordance with the Table of Frequency Allocations, i.e. fixed and fixed satellite uses.

Respectfully submitted,  
Lockheed Martin Global Telecommunications  
World Systems

By



Robert A. Mansbach  
Its Attorney

cc: Nancy Hey