

0212-EX-ST-1999

LOCKHEED MARTIN



Lockheed Martin Enterprise Information Systems
Radio Frequency Management Office
P. O. Box 4906
Baltimore, MD 21220-0906
Tel. No. (410) 682-2156
Fax No. (410) 682-0300
MARCALL 8-682-2156
E-mail: claudewells@lmco.com

June 16, 1999

Federal Communications Commission
Experimental Radio Services
P. O. Box 358320
Pittsburgh, PA 15251-5320

Attn: Office of Engineering and Technology
Experimental License Branch
Re: Experimental Authorization Request
Special Temporary Authorization Request

We, the Lockheed Martin Corporation, are requesting a **Special Temporary Authorization, STA**, for operations on the radio frequency of **913 Mhz** in the vicinity of our facilities located near **Marietta, Cobb County, GA**.

You will find attached a detailed description of the request and all technical specifications for operations at 913 MHz. We are requesting a six month STA for operations to begin on or about the **26th day of July 1999** and to run through the **26th day of January 2000**. You will also find the required FCC form 159 and a check for the processing fees, **\$45.00**, attached.

If you should have any questions regarding this program or any of the technical data attached, please feel free to contact **Robert F. Thompson** at **(770) 494-2893**. All other questions regarding this application should be directed to the undersigned on **(410) 682-2156**.

Very Truly Yours,

Claude E. Wells
Corporate
Assoc. Tech. Support Analyst

attachment

Special Temporary Authorization Request

1. Name and address of applicant: Lockheed Martin Corporation
Attn: John S. Hickey
P. O. Box 4906
Baltimore, MD 21220-0906
2. Description of need: Immediate needs to conduct FOB WDM technology demonstrations and development for fiber optics bus on airborne platforms.
3. Type of operation to be conducted: Ground-to-air and air-to-ground transmissions of radio signals from airborne and ground stations using selected frequencies.
4. Explanation of how facilities will be used: Radio transmission of RF carrier modulated with voice and video from a fixed ground location and from an airborne platform will be conducted to establish two way communications with aircraft flying a 175 statute mile radius of the ground station at our facilities located near Marietta, Cobb County, GA. This is intended to test the fiber optics links associated with the communications systems.
5. Times and dates of operations: Testing is currently scheduled to begin at the earliest possible time, beginning on or about 26th day of July, and is to continue during daylight hours on a normal work schedule with transmissions 20% of the time for a period of two years. (Due to the short notice of the tests to begin, we are requesting an STA at this time to facilitate the beginning of operations. We will be filing a request for a regular Experimental Authorization prior to the end of the initial six months.)
6. Class of Station and Radio Service: Ground/Mobile station in the Experimental Radio Services.
7. Location of transmitters: 1.) Land Site: Lockheed Martin Aeronautical Systems Company, Marietta, Cobb County, GA; U.S. Air Force Plant Six; 33° 54' 40" N. latitude, 084° 31' 03" W. Longitude. 2.) Mobile site airborne to 175 statute mile radius of ground land site.
8. Number of fixed transmitters and mobile units: One fixed ground transmitter and one airborne transmitter communicating between single flying aircraft within 175 statute mile radius of the ground transmitter site.
9. Operating Frequencies: 913 Mhz
10. Output power of transmitter: 20 watts
11. Proposed type of emissions: F3W – 17M5F3W
12. Description of antenna: Quarter wave vertical blade
13. Business or activity of applicant: Applicant is a manufacturer of aircraft and other aerospace products.
14. Equipment Mfg. And type: Dell-Star Technologies, Inc. Model number DSX-920.