

0416-EX-ST-2000

LOCKHEED MARTIN



Enterprise
Information
Systems

Lockheed Martin Enterprise Information Systems
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August 15, 2000

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

Attn: Office of Engineering & Technology
Experimental License Bureau
Re: Special Temporary Authorization Request – WB2XBI

We, the Lockheed Martin Corporation, are requesting a Special Temporary Authorization for operating on the radio frequency 913 MHz. This request actually is a request based on a previous STA, WB2XBI, granted for us to operate on the same frequency from July 1999 until January of 2000. It has been determined that further retesting is necessary for the proposed systems and we are requesting another Special temporary Authorization to last six months to allow us adequate time to complete the retests.

I have enclosed an outlined request with all technical parameters of the proposed tests to be conducted on the systems in question. I have also enclosed a copy of the previous STA, **WB2XBI**, for your information and review. The proposed tests are scheduled to commence on or about August 21, 2000 and should be completed by February 1, 2001.

If you should have any problems or questions, regarding the proposed tests and their procedures please feel free to call R.F. Thompson at (770) 494-2893. If you have questions relating to the application request, please call the undersigned on (410) 682-2156.

Very Truly Yours,

Claude E. Wells
Corporate
Tech. Support Analyst

- (1) Name and address of applicant: Lockheed Martin Corporation
C/O John S. Hickey
P.O. Box 4906
Baltimore, MD 21220
- (2) Description of need: Immediate needs to conduct FOBWDM™ 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 Marietta, GA. This is intended to test the fiber optics links associated with the communications systems.
- (5) Times and dates of operation: Testing is currently scheduled to begin at the earliest possible time and is to continue during daylight hours on a normal work schedule with transmissions 20% of time for a period of 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 Aeronautics Company, Marietta, Cobb County, Georgia; U.S. Air Force Plant Six; 33-54-40 N, 084-31-03 W. 2) Mobile site airborne to 175 statute miles 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 mile radius of the ground transmitter site.
- (9) Operating frequencies: 913 MHz
- (10) Output power of transmitters: 20 watts.
- (11) Proposed type of emission: F3W
- (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.