

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION

EXPERIMENTAL
(Nature of Service)

W A 2 X K E
(Call Sign)

XD MO
(Class of station)

S-2866-EX-97
(File number)

NAME Lockheed Martin Corporation

Within 49 km of Syracuse, NY - NL 43-06-43; WL 076-11-18
(Location of station)

Special Temporary Authority is hereby granted to operate the radio transmitting apparatus described below:

Frequency (MHz)	Authorized Power (watts)	Emission Designator	Class of Station
420 - 450	32.9 MW (ERP)	4M24P0N	MO
420 - 450	32.9 MW (ERP)	4M15P0N	MO

Purpose of Operation: Testing of a sensor subsystem, which includes surveillance and fire control radar, of an advanced air defense system.

Special Conditions: None.

This special temporary authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This special temporary authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control by the Government of the United States conferred by Section 706 of the Communications Act of 1934.

This authorization effective April 3, 1997 and
will expire 3:00 A.M. EST. October 3, 1997



S-2866-EX-97

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

February 13, 1997

Federal Communications Commission
Experimental Radio Service
P. O. Box 358320
Pittsburgh, PA 15251-5315

OK by HFW for
420-450 MHz for STA.
dy 4/3/97

Attn: Office of Engineering & Technology
Re: New Experimental Radio Station Authorization Request
Special Temporary Authorization Request

This is a simultaneous Special Temporary Authorization request filing for a new STA to meet goals and objectives for a potential long term contract. We are requesting the beginning date to be **March 1, 1997** and to run for **approximately 6 months**. You will please find enclosed one copy of FCC Form 442, Application for New Station Authorization Under Part 5 of FCC Rules, with the required FCC license processing fee, \$45.00, attached. This request is for operations in the radio frequency band between **390.00000 to 470.00000 Mhz**, at our facilities located near **Syracuse, Onondaga County, NY**.

The proposed station is currently a research and development program whose mission is to demonstrate the feasibility of the application being demonstrated. The ultimate goal is to prove their theory to obtain a pending contract with the Us Government. At this time the details of the activity are considered company proprietary and cannot be revealed until the contract is awarded. If you have any problems or questions regarding the proposed program leading to this application, please feel free to call **harry Rothenhoefer** on **(315) 456-3089**.

If you have any questions or problems with the completion of this station application, please feel free to call the undersigned on **(410) 682-2156**.

Very Truly Yours,


Claude E. Wells
Corporate
Sr. Tech. Support Analyst

See 5684-EX-R-97 for
parameters

SYSTEM OVERVIEW

This is a Lockheed Martin corporate wide Independent Research and Development (IR&D) program. The purpose of the IR&D program is to investigate technologies for system components of an Advanced Air Defense System (AADS) including radars, missiles, seekers and battle management/command, control, communications, computers, and intelligence (BMIC41). The Sensor Subsystem includes all aspects of the surveillance and fire control radar. The Sensor Subsystem consists of a Surveillance Radar Test Bed (SRTB) and a Fire Control Radar Test Bed (FCRTB).

The Sensor Subsystem is intended to operate with other elements of AADS for the purpose of demonstrating air defense system capabilities. Such demonstrations typically consist of SRTB detection and tracking of a test target of interest; cueing from SRTB to FCRTB; FCRTB acquisition and tracking of the target; cueing from the FCRTB, via a ground communications station (Ground Station), to a missile seeker mounted and operating in a captive flight test configuration; and ultimately, missile seeker acquisition, tracking, and aimpoint selection of that target. The Sensor Subsystem is also used for data collection to evaluate performance during demonstrations and other scenarios.



FAX COVER SHEET

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DATE: April 3, 1997

FROM: Douglas A. Young 1300 - C1
FEDERAL COMMUNICATIONS COMMISSION
Experimental Licensing Branch
2000 M Street, Suite 230
Washington, DC 20554

PHONE: (202) 418-2440

FAX: (202) 418-1918

TO: Mr. B. Budwey
NAME

Lockheed Martin Corporation
COMPANY

(315) 456 - 2051
PHONE

(315) 456 - 0748
FAX

Mr. Budwey:
Here is a copy of Lockheed Martin Corporation's STA for station
WA2XKE, File Number S-2866-EX-97. The original license will be
mailed to Mr. John Hickey today.

Doug Young
