

FCC Form 442

Exhibit A

Background

Lockheed Martin M & DS plans to install a point to point data transmission and receiving system from P-COM, capable of operating in the frequency range of 10.15 to 10.65 GHz. It is to be used for “real life” characterization tests and demonstrations of our Software Radio (SWR) and Information Assurance (IA) products, which are provided to the U.S. Department of Defense.

Installation

The transmitting equipment will be installed on a existing tower at the Monumnet Ridge antenna range on the crst of the northeastern San Jose foothills (at an elevation of approximately 810 meters). The receiving antenna will be installed on top of the 6-story building #280 at the Lockheed Martin M & DS facilities Zanker Road in San Jose, at a distance of approximately 11 kilometers from the Monument Ridge antenna range.

Nature of the Project

The IF portion of teh P-COM receiving equipment will be set up in a laboratory environment and integrated into the several SWR and IA experiments, whose purpose is to characterize teh performance of our products in a “real life” communications environment. These performance measurements are essential in determining whether our equipment is adequate to solve some critical transmission problems which have been brought to Lockheed Martin’s attention by several agencies within the U.S. Department of Defense.

Need for teh Communications Facilities

Specifically, teh set of experiments and demonstrations will include spread spectrum communications techniques and systems. Further use of teh equipment will target the exploitation of the capabilities of the Piranha Software Radio platform, which is currently under development. An actual communication link is required in order to determine the characteristics of the signals being transmitted as they propagate acroos the air gap.

Currently at teh Lockheed Martin M & DS Zanker Road facilities there are no communications links which can be used to perform these experiments.

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Exhibit B

