

Explanation of Experiment

Raytheon Missile Systems (Raytheon) is the primary missile manufacturer in the US, supplying ordinance ready to operate to the US military. This application seeks authorization for the use of a variety of radio systems that are used in the development and testing of its advanced missile systems, to deliver automatic real-time position information to the warfighter on the battlefield. The operations in question were the subject of WO9XPL. The initial testing was very productive, and the program is seeking authorization to continue the testing.

Raytheon is working on just-in-time development of advanced radio performance. The application is filed for operations at Raytheon's facilities in Tucson.

Technical Synopsis:

Spectrum requested:	420-450 MHz
Limited time of use:	sporadic use, when hard-wired connections are detached
Limited area of operations:	operations are limited to Raytheon plant site
Power level is low:	5 W
Operations protect other users:	frequency hopping, listen-before-transmit radios

Description of Operations:

Raytheon is working on the advanced development of radio systems incorporated into its missiles. Raytheon's customers are requesting ever more data from the missile systems while those systems are in operation, to provide the warfighter with local, just-in-time information. The radios being tested here will use a 6 MHz wide channel to provide a variety of data.

Testing will be limited to the lab, to see if the radios in question can deliver the performance being requested by the customers.

Limited Time of Use:

Most testing will be hard-wired. However, on occasion, it will be necessary to test over-the-air transmissions to validate the effectiveness of the radio operations. The time of use of these frequencies is expected to be less than 2 hours per week.

Locations of Testing:

Testing will be conducted at two locations at the Raytheon plant in Tucson. All testing is indoors.

Stop Buzzer Point of Contact:

Jim Ortega, Spectrum Manager
Raytheon Missile Systems
520-794-0227 (office #, forwards to cell)
James.e.ortega@raytheon.com

Conclusion:

Raytheon is seeking to extend testing at its headquarters facilities to advance the development of communications systems that are being incorporated into its missile systems. The operations take place indoors, and for less than 2 hours per week.

If there are any questions about this proposed operation, please contact Anne E. Cortez, counsel, Washington Federal Strategies, at 520-360-0925 or alc@conspecinternational.com.