

Raytheon Missile Systems
Modification of WF2XQH
File No: 0220-EX-ML-2011

Explanation of Need for Experimental License Modification

Overview: Raytheon Missile Systems is a US corporation (Raytheon) that supplies missiles and other products and technologies to the US military and to other, approved, governments around the world. In the process of developing and testing its products, Raytheon Missile Systems needs to conduct tests and document the testing of its products.

Earlier in 2011, Raytheon was granted experimental license WF2XQH to operate radios to trigger cameras in remote areas where Raytheon conducts testing of its products. The original experimental license did not permit the use of any voice communications over the radios. The original license was only for the use of a tone to trigger the camera shutter.

Synopsis:

- ◆ Purpose of Modification: to add emission designator 16K0F3E to the camera control license to allow voice communications related to camera control.

Basis for request to modify license: Further, more in depth discussion with the program came after they reviewed the experimental license. At that time, they mentioned that in fact they use the same radios for very intermittent, very limited voice communications such as: 1. “We are all setup here. Take a picture, and let me know if it works.” 2. “Do you have the camera angle?” “Yes”; or 3. “That’s not the right shot.” “Ok, I’ll adjust.” Because of the remote locations of the testing, cell coverage is not available. As a result, using the existing radios would be highly beneficial and expedient. Further, there are no other viable options.

The current modification application requests authorization to add the following emission designator to the listed frequencies:

431.25 MHz – 16K0F3E
435.50 MHz – 16K0F3E
445.50 MHz – 16K0F3E

Conclusion: This request is being made to allow for very brief voice communications over radios that are used for camera control. The voice communications will simply verify that the camera is pointed properly and functioning properly in the remote areas where Raytheon conducts its missile testing. If there are any questions, please contact Thomas J. Fagan, tjfagan@raytheon.com or 520-7994-0227 or Anne Linton Cortez, WFS, alc@conspecinternational.com or 520-344-8525.