

Raytheon Company
File No. 0590-EX-PL-2006

Additional Data for Application for Experimental Radio Service.

Raytheon is requesting an experimental license to conduct technical research and demonstration of systems operating in the Dedicated Short-Range Communications Service (DSRC) in the 5.850-5.925 GHz band. The operation of the systems proposed here will contribute to the development of radio technology to enhance vehicle safety and public safety. The expected duration of the research and demonstration is 15 months.

To conduct this research and demonstration, Raytheon will be installing three fixed sites, one mobile site, and one transportable site around the Raytheon Fullerton facilities in Fullerton. The two fixed sites each consists of one transmitter with two antennas each. One fixed site with one transmitter and one antenna. The mobile and Transportable sites consist of one transmitter and one antenna each. The location indicated for the Transportable site is the primary location and may be relocated within the radius indicated, within Raytheon property. All transmitters will be located on Raytheon facilities.

The Raytheon site where the license is requested is further than seventy-five kilometers from any government radar site listed in Section 90.371(b) of the FCC rules.

A frequency tolerance has not been provided. The occupied bandwidth of the emission will not extend beyond the band limits of 5850-5925MHz.

A designated stop buzzer person for the Raytheon site is Les Overall. His cell phone number is 714-313-3217.

This request is an extension to the activity licensed under Special Temporary Authority (STA) 0348-EX-ST-2006. The DSRC equipment has been updated and the scope of the testing modified and additional testing is required.