

Explanation of Experiment and Request to Extend Use of Frequencies

On October 23, 2007, the FCC granted a special temporary authorization, WD9XBX, to Raytheon Company for fixed and mobile use of frequencies in the 34-35 GHz band for a multi-function radio frequency system (MFRFS) compact high gain active phase array RADAR experiment conducted for the US military. The original application was assigned the application number 0489-EX-ST-2007.

The temporary use of these frequencies was intended to allow experimentation with a system that will identify incoming ordinance and trigger responsive ordinance to deflect the hostile attack.

WD9XBX is set to expire on April 24, 2008. However, the experimental testing being conducted under this radio authorization is not yet complete because in this case Raytheon is working with another federal contractor which has a different development timeline. The project will require additional testing to allow Raytheon to integrate its technology and ensure seamless operation with the other company's technology.

The testing is expected to require another eighteen months. To ensure that the testing is complete within the timeframe of the license, we are requesting an experimental license for 2.5 years.

Raytheon Company is requesting this experimental authorization to continue its testing on 34-35 GHz frequencies in Redstone Arsenal, AL and McKinney, TX.

The technical parameters are the same as those granted under WD9XBX. The purpose of the experimental use of spectrum remains the same: multi-function radio frequency system compact high gain active phase array RADAR.