

Question 7: Purpose of Experiment

In FCC 03-105 action regarding an amateur radio allocation at 135.7 to 137.8 kHz, the FCC indicated that experimental licenses might be possible to investigate this portion of the radio spectrum.

I hold Amateur Extra Class license W9RB and was originally licensed in 1954. My professional experience includes over 40 years in electronics engineering and I have a B.E.E. and M.S.E.E. I have operated a Lowfer beacon under the FCC Part 15 rules at 186.92 kHz since 1998 and would like to explore communications potential using higher power than the 1 Watt under Part 15 rules using the 135.7 to 137.8 kHz band that is being used in many countries in other areas of the world.

I have built a 400 Watt 136 kHz transmitter from a design that was published in the Radio Society of Great Britain Low Frequency Handbook and has been used successfully in England. This transmitter would be used with the vertical antenna described elsewhere in this application to conduct experiments in propagation.

I am a member of the ARRL and Longwave Club of America and would share results of the proposed experiments with their publications.

Robert E. Bicking 8-6-2003