

MEMORANDUM FOR F.C.C.

FROM: JAMES E. WHEDBEE

RE: EXPERIMENTAL LICENSE APPLICATION #0326-EX-PL-2008

Dear Sir/Ma'am:

The purpose of this experimentation is to test ruggedized omnidirectional antenna designs for uses on various frequencies, using various modes, and various bandwidths. The antennas are being designed through this process of experimentation for use in applications where rugged design may be essential to equipment survival (military, industry, amateur, etc.). However, any discoveries made during this experimentation shall also be made public domain; that is, no rights to any discoveries will be withheld from the public, but instead made freely available.

Frequency selection includes unallocated portions of the electromagnetic spectrum for spurious emission purposes only. Any portion of the spectrum beyond the FCC's jurisdiction may be disregarded. Although not stated in the application, frequencies which are sensitive (e.g., radio astronomy, military, radio navigation) shall be avoided.

If this application is granted, all antennas are meant to have an efficient omnidirectional radiation pattern, and to be simple (hence the need for experimentation). To test various designs, emission designator XXX is used for frequencies above 999 Hz, and NON is used on 1-999Hz. The bandwidths represented in the application are maximum bandwidths, and are not intended to be employed with each test - tests may use extremely narrow data emissions, morse code, voice (narrow and wide bandwidths), facsimile, pulse (where permitted), a combination of these, widebanded modes (up to the maximums indicated in the application), and so forth. Under no circumstances shall an emission exceed 1 MHz in width, and then only above 999 MHz.

Operation is intended to be itinerant, which is to say, at the undersigned's convenience. Effective radiated power levels in the application reflect absolute maximums, and actual power levels may be reduced to much lower levels (i.e., particularly VLF and LF antennas with low efficiencies); therefore, Commission may reasonably assume that I shall only employ the power level required to accomplish the desired test, and no more, and definitely not above these stated maxima.

Where a particular test of a particular antenna would serve a unique radio service (e.g., amateur), it would be advantageous to be able to communicate with stations in that service as part of the testing process; however, it is not critical if the Commission cannot grant same.

The Commission is free - within the spirit of the foregoing - to adapt and modify this application to the extent it believes will facilitate an expeditious grant of it. Therefore, if a particular set of frequencies needs to be notched out (avoided), power levels within a given set of frequencies reduced, and/or a particular emission avoided, the Commission is welcome to make that a condition of the license. The undersigned requests facilities consistent with this application, but subject to whatever conditions the Commission may deem in the public interest. To these ends, I am...

Respectfully yours,

/s./ JAMES EDWIN WHEDBEE, M.Ed.
APPLICANT