

Small Mobile/Portable Medium Frequency Antenna Design

This 60 month experimental license is required to enable the design and testing of a small mobile/portable medium frequency antenna.

The antenna will be installed temporarily at one location at a time in the mobile radius. This mobile operating will allow me to design a antenna that can perform reasonably over various ground conditions and in various environmental conditions such as dense forests, open fields, close proximity to buildings, frozen soil, non-frozen soil. This type of antenna would possibly be useful for emergency communication as it could be setup and used quickly without much technical knowledge.

All communications will use Morse Code or digital modes. Station identification will take place using Morse Code at the beginning and end as well as every 10 minutes of operating on the air.

The necessary equipment required such as receivers and transmitters already exist from the previous experimental work I have done over the previous grants. The antenna will be newly constructed. Communication will take place with existing Part 5 Experimental Stations and possibly with Amateur Radio Operators if the need arises.

All results and designs regarding the experiment will be published online.

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