

10. The following is a narrative statement describing the program of research and experimentation, including description of equipment and theory of operation, objective to be sought, and how the program of experimentation has a reasonable promise of contribution to the development, extension, expansion or utilization of radio art or is along a line not aledy investigated.

The radios to be used are the P-comm 38 GHz, and 28 GHz radios, to be used for PCS (Personal Communications Systems).

The radios will be operated at trade shows, and demonstrated to customers, both at the show, and on site, for those customers who wish to test the radios.

Path testing and radio testing will be done in various areas of the fifty states to determine the feasibility of the new radio bands.

Rain attenuation will be checked at various locations within the fifty states. Various path lengths will be tested to determine maximum path lengths to be used for the radios, and the reliability that can be achieved per varying path lengths, in areas varying in rain rate, and climate/terrain type.