

Exhibit 1
Item 10

- a. The complete program of research and experimentation proposed including description of equipment and theory of operation.

The applicant proposes to conduct research and experimentation for a novel packet switched two-way wireless communications system. The network consists of a base station and mobile unit for the airlink connection under the control of a message control center. The base station operates at 868.9 MHz at 81 W EIRP with F2D emissions and the mobile unit operates at 823.9 MHz at 0.5 W EIRP with F2D emissions. The airlink protocol is based on packet data transmissions with acknowledgements.

- b. The specific objectives sought to be accomplished.

The specific objectives sought to be accomplished are a demonstration of the base station and mobile unit hardware and software functions at the designated frequencies. Additionally, system performance characterization is required to determine the coverage footprint for a given base station. Operation near the 800 MHz cell phone bands is desired to leverage off-the-shelf RF technologies previously developed for cellular telephony applications.

- c. How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion, or utilization of the radio art, or is along line not already investigated.

Frequency congestion is a significant issue that must be addressed to satisfy the increasing demand for mobile communications. The proposed system offers significant throughput capacities for fixed channel allocations when compared to other wireless data networks. The increased spectral efficiency will support a greater number of users thus providing relief to potential service providers that adopt the proposed system.