

## **C SPEED Experimentation Description**

*If all the answers to Items 4, 5, 6 are "NO", include as an exhibit a narrative statement describing in detail the following items:*

- a. The complete program of research and experimentation proposed including description of equipment and theory of operation.*
- b. The specific objectives sought to be accomplished.*
- 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.*

This research and experimentation project is focused on the development of a new radar system that will perform air traffic control for military and civilian applications. It is being conducted, in large part, to support requirements expressed to us by several United States departments and agencies – including DoD, DHS, and FAA. The objective of this effort is to complete the development of the radar system by emitting and receiving skin returns from non-cooperative airborne targets of interest. And, this cannot be accomplished in a laboratory environment. As such, the outdoor testing – both on fixed, building roof test stand as well as mobile trailer is necessary. As this system is not a radio associated with communications, it will not contribute in this area – however, will contribute to national air safety and development as a radar system for legacy upgrade and new installation.