

Form 442 Question 7: Experimentation Description

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

The program will consist of a 5G wireless test bed which includes mobile devices, RAN network, Core network and application servers to enable research and experimentation of new services and features.

- b. The specific objectives sought to be accomplished.

- 1) 5G wireless technology research of device and network systems.**
- 2) Tradeoff analysis of candidate wireless technology solutions/features.**
- 3) Exploring new services or optimizing existing services to be delivered over 5G wireless technology.**

- 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.

The test bed will be based on the latest Wireless and Internet Industry standardized technologies (i.e., 3GPP, IETF, etc). The test bed will be used to implement the latest standards to understand the practical implementation challenges in products. Additionally, the test bed will be utilized to validate the technical integration of Wireless and Internet standards.