

April 8, 2016

Statement in Lieu of the Antenna Sketch

The proposed system's fixed/base Omni Antenna will be a temporary installation atop a manually telescoping tripod. The system will be tested with this antenna raised in steps up to 10 meters. The tip of the Omni antenna will not exceed 10 meters height.

This is not a permanent installation. It will be brought out for testing as required and then brought down and stored.

The proposed fixed/base antenna location is in the parking lot of a 4-storey building. The building on one side and tall trees on the other side are much higher than 10 meters.

Item 7 Narratives

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

This license request is for extension of the experimental license (File Number 0791-EX-ST-2015).

Cornet Technology wants to continue with the testing of its newly developed TVCS InterConnect which is a radio-cross banding gateway integrated with a low power LTE base station. The field testing is required to complete the development of the LTE base station subsystem of the product.

- b. The specific objectives sought to be accomplished*

Cornet Technology wishes to continue the testing in LTE Band 14. The solution will be useful for first responders and disaster response forces. The solution also has applicability in military tactical communication applications. The specific objective is to test the stability, throughput, limit on number of users, and the range of operation of the LTE "bubble" using the TVCS InterConnect utilizing a tripod-mounted omni-directional antenna.

- 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 unit under development provides industry's first radio cross banding gateway that is integrated with a low power LTE base station for interoperability between LTE smartphone users and radio users operating in different bands without dependence on a mobile carrier.

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