

From: Christopher Wilder

To: Behnam Ghaffari

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Message:

Raytheon- BBN Technologies intends to operate on the frequencies and power levels described in the license application to test the functionality of specific applications on a series of prototype Software Defined Radios. These applications provide geolocation and communications capabilities that are derived from the interoperation of two to ten radios. The majority of the testing and development will be performed in shielded containers. The over the air testing will be used to validate the operation of the system. In these test, the geographic operation will be limited to within the building whose address is on the application (9861 Brokenland Pkw, Columbia, MD 21046), its parking lot and the area immediately around the parking lot and would not exceed 0.5km under any circumstances.

A primary use of the operation will be to characterize the performance of the antennas when worn with combat body armor and the level of attenuation of the body armor when a user is moving by running and walking. Additional experiments will be performed to characterize the degradation of the antennas performance when worn. The power levels for this operation will be below the maximum stated in the application. In all cases, an operator will be with the radios and the output of radio monitored and measured.

By the nature of the experiments and characterization, the operation is be highly intermittent and of low duty cycle.