

From: John Pacheco

To: Leann Nguyen

Date: March 30, 2011

Subject: FCC file# 0058-EX-ML-2011

Message:

Hi Leann,

The purpose of this modification is to allow us to extend our testing to allow us to test our 4.4GHz radios outdoors. We develop mobile wireless security systems for the US government (primarily but not exclusively the military) using standard 802.11 a/b/g/n solutions in 2.4GHz and 5GHz. We also support use of the 4.9 (safety) channels and hence our original application under callsign WF2XNE. Our newest R&D efforts are with a radio that operates in the 4.4GHz frequency. Currently, our R&D efforts are limited to RF cabled solutions or to tests conducted within an anechoic chamber. Our customers (who do have license to use the 4.4GHz band on different military bases, for example) would like us to have tested our products outdoors in a mobile situation.

Our planned tests under this modification to the license would include a number of vehicle-to-vehicle and vehicle-to-fixed point tests carried out sending radio traffic streams (generally video or file transfers) between two moving cars in the parking lots near our office building. Our products uses a frequency shifting technology which takes 802.11a waveforms and shifts them down into the 4.4GHz frequency as I described in my application. Each of the channels is 20Mhz wide and has all of the same characteristics at the 802.11a counterparts. In fact, it is 802.11a?it is just shifted in frequency. Our intention in testing is to validate the performance and throughput of each 4.4GHz channel as described in a manner similar to the way in which our customers would use the products.

Please contact me if you have additional questions or comments about this application.

Regards

JP

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