

From: Frank Marcotte

To: Behnam Ghaffari

Date: June 13, 2014

Subject: FCC File No. 0507-EX-ST-2014

Message:

Mr. Ghaffari,

Question 1. More detailed Purpose of Operation.

The STA request is proof of concept testing of a simultaneous transmit and receive radar, configured with special processing to account for close-in radar clutter. To best test this system economically, the radar must be positioned from a high vantage looking downward toward the surrounding terrain and horizon to best simulate an airborne system. This type of terrain is not available in the JHU/APL (Laurel, MD) immediate area. While not a truly mobile radar test, a mobile STA was requested to accommodate testing both at our site and still undetermined sites in the mid-Atlantic area. Testing outside of our campus in Laurel will be infrequent (< 5 individual days) and brief (< 5 hrs/on any given day) over the 6 month STA period as this is an IRAD effort with limited funding.

The radar's horn antenna will be fixed on a tripod and non-moving during the test.

Question 2. Rationale for requesting 4-state operational area.

As described above, high-vantage point testing is not available at the JHU/APL campus. The multi-state request is to accommodate a large variety of terrain opportunities. Specific sites have not yet been chosen. Care will be taken to ensure the locale is sparsely populated and all (general population) safety guidelines are met, as we must ensure the safety of our own operating crew.

I hope these clarifications are adequate for you to grant our request.

Regards,

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