

From: Josh Snook

To: Behnam Ghaffari

Date: September 11, 2015

Subject: FCC File No. 0568-EX-PL-2015

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Message:

Response to questions are given below.

1. The application Fee has been submitted (Pay.gov Tracing ID: 25NA3DJ7 &ndash; Agency Tracking ID: PGC2723179)
2. It is anticipated that the complexity of the system we are building will require more than 24 months to complete testing, iteration, and experimentation. Part of the reason for this is that testing is not just for the purpose of designing new hardware, but also for validating performance in support of creating industry standards. IMSAR, LLC is a member of the RTCA and is participating in the definition of suggested requirements for detect and avoid (DAA) systems. The RTCA is currently working on standards for large unmanned aerial systems (UAS) and will start work for smaller systems in the next year or so. We expect 60 months will be sufficient to complete the experiments.
3. Operation is initially on manned aircraft. Further testing will be done on unmanned aircraft.
4. Our rationale for requesting the state of Utah is that many different types of terrain are encompassed by the state. We have desert, mountains, forests, wetlands and lakes. This also allows us to relocate testing to a different part of the state if weather is unfavorable at our primary location. We are also asking for the state so that as development continues we can work with groups in Utah that already have FAA COAs in place to support testing our hardware on unmanned aerial systems. We currently have an experimental license, WE2XVR that covers other radar systems we develop, which covers the state of Utah. That license initially had many different location within the state of Utah, but was consolidated to cover the whole state. We feel that it is more efficient to request the whole state after our experience with the WE2XVR license. If this request will greatly increase the length of time required to get the license, we will reevaluate this request.

Thanks,  
Josh Snook  
ImSAR LLC