

From: Chuck Finley

To: Leann Nguyen

Date: February 24, 2016

Subject: Request for Info - File # 0221-EX-ST-2016

Message:

Vista Research is working in conjunction with Boeing Insitu to provide a wide area open water search capability to the US Navy using an x-band radar. Ultimately the scanner is intended to be mounted to an unmanned aerial system (UAS). Initial pass-fail test efforts require that the UAS and radar complete localized ground testing (static) for electromagnetic interference (EMI) and electromagnetic compatibility (EMC). For the duration of the requested effort, the UAS will only operate on the ground to the interim USN customer.

Operational concept is such that an x-band scanner will be utilized as the excitation source to preform electromagnetic interference (EMI) and electromagnetic compatibility (EMC) testing. The x-band scanner will be placed in close proximity to sensitive electronic devices contained within the UAS to observe any deviation or degradation in performance. The scanner will be operated at altitudes between ground level but not to exceed 2 meters AGL. Once placed, the scanner will not move until EMI/EMC checkouts are complete. The test process dictates that the UAS be re-positioned within a closer proximity to the scanner where the checkout process will be repeated. The process will be repeated until the UAS and radar are co-located. Testing will cease once the UAS successfully passes the complete test battery or under failure/ degradation of the UAS electronics. It should be noted that the UAS will NOT be flying under this test.