



Subject: Pre-Coordination Document
Re: STA Request 0797-EX-ST-2020

This STA request is a resubmittal of File 0675-EX-ST-2020, which was denied.

During a phone call between Anthony Serafini and Joe Sluz (JHU/APL) on 14 May, FCC concerns with File 0675-EX-ST-2020 were discussed. The test has been modified to address the concerns and resubmitted in File 0797-EX-ST-2020. The test focus is the Test Radar response of the field test targets, not demonstrating active Electronic Attack. Furthermore, to address additional concerns, the test has been made more restrictive. The changes made from the original submittal are

- Characterize the event as a Radar Test instead of an Electronic Warfare Test
- Reduce Peak Transmit Power/ERP from 10W/400W to 100mW/4W.
- Duty is not to exceed 0.003%
- Setup will be monitored to assure Drone repeater is reacting only to signals from the APL radar

This field test is a data gathering event on the test radar measurements to two electronic test targets. One test target is moving on a flying drone, while the other is a stationary target. The flying drone will respond to the test radar to offset its effective range and Doppler and this data will be recorded and compared to the fixed test target. This test is similar to aiming a test radar at a large corner reflector, which may be vibrating to impart a Doppler, and observing the returned radar pulse; due to the small test field we are using electronic test targets instead of passive corner reflectors to interact with the Test Radar.

Joe Sluz, Engineer
Joseph.Sluz@jhuapl.edu
240-228-7516