

From: Breneman Whitfield

To: Doug Young

Date: September 04, 2018

Subject: Request for Info - File # 1508-EX-ST-2018

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Message:

Yes. There is one ground site and two airborne. All sites use the same radios, the differences are in the antenna configurations. The ground site uses a 22dBi dish, and the airborne use a 3dB omni. So, the higher power emitter is the directional system on the ground.

The ground site is located on Santa Rosa Island at A15.

30°23'13.63"N

86°48'30.20"W

Normal altitudes are in the 6000 to 9000 feet MSL range. With the exception of launch and recovery (we normally only conduct one flight per day), the UAS stay to the south over the water. So, the directional antenna points south at almost all times.

I can provide DD1494s for the radios if that would help. They're tunable from 2200-2500MHz and are configurable for 5, 10, and 20MHz channels. I configure the channel width based on the range and bandwidth needs for the test. We were instructed to request the 2200-2290MHz band by the spectrum manager at Eglin. The radios are CSMA, so they all operate with the same center frequency and bandwidth.

Please let me know what additional information is needed.

Thanks!