

## **REQUEST FOR MODIFICATION TO EXPERIMENTAL LICENSE WJ2XUP**

The purpose of this modification application to WJ2XUP is to conform the original request for authorization in the 5040-5050 MHz band segment to the Federal Aviation Administration's (FAA) frequency coordination of this segment. The FAA has assigned channel 5040.9675 and 5040.8825 MHz for sites at Edwards Air Force Base in East Kern, California and 5040.8825 MHz for the site located at Lanai, Hawaii.

The Harris p/n 102721-001 will use these channels for purposes of sending ground based command and control data to and from the unmanned aircraft system (UAS). Operations will be consistent with RTCA DO-362 including ability to select a discrete channel. The waveform is compatible with the Command and Control (C2) Data Link Minimum Operational Performance Standards (MOPS).

As with the Commission's grant of authority in the UHF band, the tests support AeroVironment's Hawk30 High Altitude Platform System (HAPS) for unmanned aircraft. The project encompasses yet to be tested solar-powered high altitude long-endurance (HALE) unmanned aircraft. The tests will address integrating the transceivers at different altitudes in the solar environment. This modification is part for the first stage of testing.

In addition to this attachment, the FAA coordination documents are provided as is information addressing the antennas. The operations diagram and screen shots of the site locations are unchanged from the original application

AeroVironment appreciates the Commission's, FAA's and NTIA's review and consideration of this modification.