

Experimental License Application

AeroVironment, Inc.

File # 00820-EX-CN-2020

### **Revision of ERP Information**

This note responds to the Commission's inquiry addressing the ERP information provided in the application. An agency reviewing the application notes a disparity in the ERP calculations.

- The inquiry is correct and reveals an error in the proposed power level. Instead of an output power level of 10 watts, the correct metric is 2 watts.

The ERP for the ground unit and flight unit are revised as follows:

- AeroVironment's RF ground unit has a 1-2-watt (30-33 dBm) transmitter using a 9 dBi patch antenna. Line losses are negligible, much less than 1 dB. The ground metrics calculations result in a 33-42 dBm ERP. Using 42 dBm as the metric indicates a 15.85-watt ERP.
- On the aircraft, 1-2 watts transmits through a 2.9 dBi antenna. Line losses are negligible, less than 1 dB. The air metrics calculations result in a 32.9 to 35.9 dBm ERP. Using 35.9 dBm as the metric indicates a 3.89-watt ERP for the air side.

The application has been modified to indicate a revised ERP for both ground and flight transmitters. This note has also been submitted as an attachment.

We appreciate the Commission's and agency's review and the manner of the inquiry.