

AeroVironment, Inc.
Application for an Experimental License

Statement in Support of Application for Experimental License

AeroVironment, Inc. (AV) designs, develops, manufactures, supports and operates unmanned aircraft systems (“UAS”). As part of the engineering and production process, AV tests the UAS communications systems to make sure specifications are met and to learn how it can better serve its customers. In this application, AV seeks authority to conduct laboratory tests in UHF band segments 454.675-454.975 MHz and 459.675-459.975 MHz at AV’s Moorpark, CA and Simi Valley, CA facilities.

The laboratory testing supports AeroVironment’s Hawk30 Hight Altitude Platform System (HAPS) for unmanned aircraft. The project encompasses solar-powered high-altitude long endurance (HALE) unmanned aircraft. The tests are solely for the purpose of supporting prototype aircraft under development. It does not encompass any ongoing commercial operations. AV currently holds an experimental license, WK2XXW, for operations at a site located in Spaceport America, New Mexico.

Technology

This application proposes laboratory testing of the Microhard Pico 400 in the 454/459 MHz segment for command and control purposes.

Antenna

Antenna	Gain (Nominal)	Polarization	Orientation in Vertical Plane	Orientation in Horizontal Plane
Ground MobileMark #Y66446D-C	9.5	Linear, Vertical	45°	55°
SWA southwest #1000-029	2	Vertical	82°	360°

Antenna data sheets are provided in a separate attachment as is a system diagram.

Deference to Licensed Users

AeroVironment commits to operations respecting other users of the band and those in adjacent segments. A concurrence letter from the leaseholder of the UHF channels is provided on a separate attachment. Should any interference occur, AeroVironment will take immediate steps to resolve the interference, including, if necessary, discontinuing operations

Stop Buzzer

Bart Decker, Flight Standards Manager, is available by telephone at Mobile Phone Number (805) 391-1335 and will act as a “stop buzzer” if any matters involving interference arise during the testing

Request for Waiver of Station Identification

AeroVironment asks for a waiver of the station identification requirements stated in Section 5.115 of the Commission’s rules.

AeroVironment values the work and consideration of the Commission, NTIA and coordinating agencies. Please call upon us with any questions.