



**Physical Science Laboratory**

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Subject: CRDA COA Spectrum Input

The New Mexico State University (NMSU) Unmanned Aerial Systems Flight Test Center (UAS FTC) was established, under a Cooperative Research and Development Agreement (CRDA) with the Federal Aviation Administration (FAA). The UAS FTC provides a center for UAS to be flight tested and enable industry to move forward with this new technology, under the oversight and control of the FAA while collecting empirical data. This data will assist the FAA in developing the standards by which UAS will be flown in the National Airspace System.

The UAS FTC performs this function using a process by which safe UAS testing can be accomplished within the current frequency structure of the National Telecommunications and Information Administration (NTIA) and the Federal Communications Commission (FCC). In keeping with the FAA philosophy of crawl, walk, run, and do no harm and the FCC guidance of do not interfere, the UAS FTC methodologies will be followed. These methodologies are meant to provide for frequency de-confliction with other frequency users, and for safety of flight of the UA.

If FCC licensed frequencies are being used by the proponent, a copy of the license will be provided to the UAS FTC for validation, location, and coordination of flights.

If the proponent is using Department of Defense (DOD) frequencies, documentation of the DOD authorization will be provided to the NMSU/UAS FTC for confirmation and coordination with the DOD Area Frequency coordinator.

If non-licensed band frequencies are being used, all pertinent information on the communications system will be gathered and analyzed to ensure compliance with FCC regulations.

All UAS systems will have a frequency/power verification ground checks performed on the system and frequencies prior to the initial flight.

Coordination with the DOD Area Frequency Coordinator will be accomplished a minimum of three days before flight activity.

A frequency ground check is conducted prior to flights.

Data from these checks will be recorded as part of the CRDA process.

During flight, UAS frequency monitoring will be accomplished by the UAS pilot/supplemental pilot.

A handwritten signature in black ink, reading "Stephen B. Hartman".