

Applicant: Basic Commerce & Industries, Inc.

File Number: 0731-EX-CN-2026

Program: DroneKill / Dronelyzer Counter-UAS Experimental Evaluation

Basic Commerce & Industries, Inc. requests experimental authorization to conduct controlled testing and evaluation of Counter-UAS RF detection and reactive mitigation equipment. The experimental program will evaluate the Dronelyzer MIL and Dronelyzer Vehicle configurations in a controlled test area within the authorized coordinates and radius specified in this application.

The equipment under evaluation combines passive RF detection, UAS signal classification, operator alerting, and controlled reactive RF mitigation. The Dronelyzer Vehicle configuration is described as a reactive jammer and passive UAS detector operating in the 400–6000 MHz range with 300 W total RF output power. The Dronelyzer MIL configuration is described as a rapidly deployable Counter-UAS system with RF detection, Remote ID, video downlink monitoring, Wi-Fi drone detection, and RF mitigation capability.

Testing will be limited to the frequencies, power levels, emissions, antenna configuration, geographic area, and operating conditions authorized by the FCC. Initial testing will include the 2400–2480 MHz band for controlled RF mitigation evaluation. RF mitigation will not be operated continuously and will be enabled only during controlled test events by authorized personnel.

The objectives of the experiment are to evaluate passive RF detection performance, UAS signal classification, alert timing, reactive mitigation activation, operator control, and immediate shutdown procedures. The testing will support product development, safety procedures, operating documentation, and future compliance planning.

Operations will be conducted only in applicant-controlled or sponsor-controlled areas. Trained operators will maintain control of the equipment during testing and will have immediate RF shutdown capability. The applicant will not operate outside the authorized geographic area, frequency range, power level, or emission parameters without prior FCC authorization, amendment, modification, or separate STA.

The applicant understands that this experimental authorization does not permit commercial service, routine deployment, or operation outside the limits of the FCC authorization.