

Gambit Defense Inc.

Confirmation Number: EL845432

Application Number: 1832-EX-ST-2026

## EXHIBIT 2

### QUESTION 6: STATEMENT OF RESEARCH PROJECT

- a. **Description of the research project:** Gambit Defense is conducting an experimental multi-UAS research program under contract with the Air Force Research Laboratory (AFRL) to develop and demonstrate autonomous mesh networking maintenance within a communication contested test environment located at Camp Roberts, CA McMillan Airfield (R-3401 airspace). The program employs multiple small UAS platforms flying at <100 ft above ground level equipped with PACE (Primary/Alternate/Contingency/Emergency) communications architecture and operating across Wi-Fi 802.11s (2.4/5 GHz), 802.11ah HaLow (900 MHz), 2.4 GHz mesh, and LoRaWAN (915 MHz) that will maintain command and control link availability regardless of congestion of channel.
- b. **Showing that the communications facilities requested are necessary for the research project:** The requested experimental authorizations are essential to validate the integrated system under operationally representative conditions. The multi-layer PACE stack requires live RF bearers across Wi-Fi, HaLow, mesh, and LoRaWAN bands to evaluate autonomous link-switching logic under real congestion and interference conditions. This license would allow us to evaluate link availability and autonomous behavior simultaneously with live RF transmission across the requested frequency ranges.
- c. **Showing that existing communications facilities are inadequate:** Standard **FAA Part 107 sUAS** authorization covers flight operations only and provides no authorization for SDR-based RF emissions. The novel PACE automation and reinforcement learning behaviors require purpose-specific experimental license to conduct legally authorized over-the-air testing under controlled conditions.
- d. **Stop Buzzer information:** Gambit software (ALIEN) provides a direct stop command that immediately halts all SDR-based emissions on any active band in use. The command executes within one software cycle of operator input from the GCS. In addition to operator-initiated stop capability, the system autonomously ceases jamming if the platform loses its command link, exits its geofenced operating area, or if onboard platform software (NEURON) monitoring detects a condition requiring safe system shutdown. The SDR will not operate without an active and healthy command link.
  - a. Stop Buzzer Contact: Kira Gardner
  - b. Mobile: +1 707-478-8766
  - c. Role: Comms Project Manager
  - d. Email: kira@gambit.us
  - e. Available during all experimental operations and authorized to immediately cease transmissions upon any notification of harmful interference.