Counter Unmanned Aircraft Systems (CUAS) Utilizing FAA Remote Identification (RID)



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Drones with Standard Remote ID



CUAS-RID Purpose

- The purpose of the CUAS-RID program is to enhance the safety and security of the city of San Diego and its citizens by enhancing airspace deconfliction and safer environments for aviation operations.

- Objectives:
  - Early detection of terrorist and criminal drone activity
  - Safeguard Special Events and Mass gatherings
  - Protect Fire Fighting air operations to enhance fire fighting capabilities
  - Dignitary protection
  - Protect 1st Responder tactical operations, life saving operations and criminal investigations

CUAS-RID Background – FAA RID Requirement

- The Federal Aviation Administration implemented the RID requirement 9/16/2023

- Mandated all UAS (drones) broadcast via radio signal details about:
  - The aircraft itself – Serial number
  - The aircraft's position/location
  - The position of the control station

- Full list of requirements for RID are listed in 14 CFR 89.305

CUAS-RID Technology

- Hardware
  - Radio Frequency (RF) signal receiver that detects and reads the FAA mandated broadcast at an approximate distance of 1-3 miles.
  - Cellular based transmitter transmits data to manufacturers cloud-based system.

- Software
  - User interface to allow authorized users to monitor the information provided by the receiver device.

CUAS-RID authorized operations

- CUAS-RID equipment is authorized :
  - Any first responder incident where air assets (helicopter or UAS) are present.
  - Any fire incident that may potentially require air asset support.
  - Any incident where an unidentified UAS is obstructing or interfering with first responder operation or reasonably believed to have the potential to cause interference or obstruction.
  - Any large mass gathering or special event that may pose a vulnerability for UAS borne attack or UAS safety hazard area.
  - Any Law Enforcement tactical operation that may have a vulnerability to officer or citizen safety derived from UAS counter-intelligence gathering.
  - Any special detail enforcement project that has a nexus to UAS use of criminal activity, terrorist activity, or casing to commit criminal activity.
  - Training operations.
  - Any other use case approved by the CUAS-RID Lieutenant. This duty commonly falls under the Air Support Lieutenant.

CUAS-RID Data Management

- **Data Collection** - RID does not broadcast PII of any person, so no PII can be collected.

- **Data Access** – Only authorized CUAS-RID personnel have access/possession of CUAS-RID Equipment.

- **Data Protection** – Any data identified as Digital Media Evidence (DME) will be impounded (physically or electronically) per Department Procedures 1.49 and 3.02.

- **Data Retention** – Once DME is impounded it will be retained per Department Procedures 1.49 and 3.02.

CUAS-RID Training and Oversight

- **Training** – Authorized CUAS-RID personnel will be trained and certified to use the equipment and proper data protection.

- **Oversight** – The CUAS-RID program is overseen and managed by the CUAS-RID Sergeant and the CUAS-RID Lieutenant.

- **Audits**
  - Confirm compliance to Department procedures and Use Policy
  - Confirm proper equipment function
  - Confirm data impounded per DP 3.02 and 1.49
  - Confirm user training and certification
  - Confirm proper documentation of operations and use

CUAS-RID Fiscal

- **Status** – The department currently does not possess and CUAS-RID Equipment.

- **Potential Funding Sources**
  - Grants
  - Private Donations
  - Special Funds
  - General Funds