

## UAS RSO Class



- **This brief outlines the information that UAV/ROA Operators are required to be familiar with prior to conducting training at MCB Camp Pendleton.**



- **Operators shall read all pertinent sections contained within Base Order P3500.1N.**
- **Chapter four describes aviation training regulations.**

## Overview

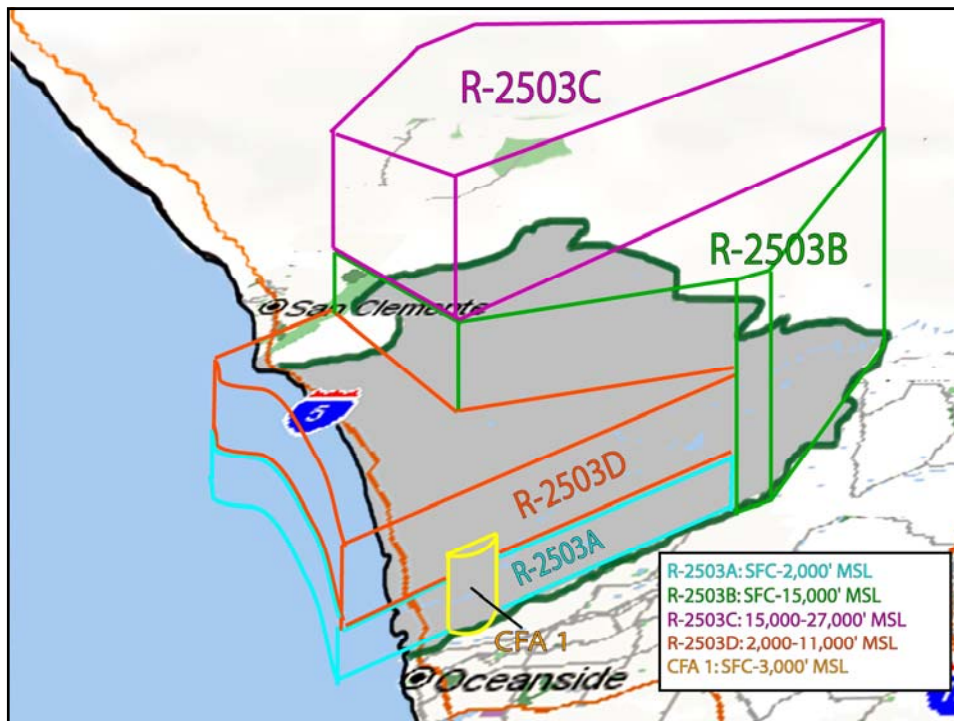
- **Training**
- **General Instructions**
- **Communications**
- **Weather**
- **Camp Pendleton Airspace**
- **No Over Flights**
- **ACAs**
- **Contacts**

## Training

- All UAV Mission Commanders and UAV operators that will fulfill the role as UAV RSO shall attend both the Camp Pendleton NLF RSO & UAV Operators Class prior to conducting UAV operations.
- The UAV RSO class is available upon request by contacting the Range Control Officer at (760)725-0355.
- The certification will remain in effect for 2 years.

# General Instructions

- UAV's operating at Camp Pendleton shall remain within R-2503A and/or R-2503B.
- (Reference FAA JO 7610.4N Special Operations and Marine Corps Safety of Use Memorandum (SOU) 3-08.
- All Non-standard UAV operations at Camp Pendleton shall be coordinated with the Range Control Officer (760) 725-0355, and scheduled per procedures outlined in paragraph 3002 in chapter 3 of P3500.1N.
- Frequency use shall be approved & coordinated with the Base Frequency Manger (760) 725-8356. Exceptions: Raven-B, Silver Fox and Shadow
- Any UAV operations conducted outside of established ACAs requires coordination with the Range Control Officer at least 14 days prior to the event. Unit SHALL schedule all required facilities in RFMSS (Range Facility Management Support System) and will provide UAV overlay with depicted routes, ACA boundaries, operating altitude(s), platform and lost signal procedures.



## Communication

- UAV operations shall not be conducted at Camp Pendleton unless positive two-way communication is established and maintained between the UAV operator and LONGRIFLE.
- The RSO shall advise LONGRIFLE ten minutes prior to launching and ten minutes prior to landing.
- Multiple UAVs' Airborne: Only one departure/arrival call will be made. Coordinate departure for first airborne UAV and last UAV arriving.
- Units conducting UAV operations shall have a radio that can monitor 301.9 UHF (Longrifle Aviation Safety Net).
- Range check-in, RSO changeovers and any other administrative traffic can be passed via Longrifle's ground safety
- All launch and recovery coordination SHALL be conducted over 301.9 UHF.
- Air Sentry posted at all times

## EMI/Weather/Transponder

- RSO will be in compliance with both Technical and Field Manuals specific to the UAV platform IOT preclude any electromagnetic interference (EMI).
- UAV operations shall be conducted in Visual Metrological Conditions (i.e. UAS not authorized to fly during heavy cloud/fog events) and only during the periods when LONGRIFLE is augmented by surveillance radar.
- UAV transponders shall be set to 4036.

## **ALTITUDE RESTRICTIONS**

- **Environmental areas: 300 feet AGL or 300 meters laterally from all environmental sites. Refer to BO 3500.1N Change 1 Chapter 2 for further details.**
- **UAV Transit over Camps and people shall maintain a minimum altitude of 500 ft AGL.**

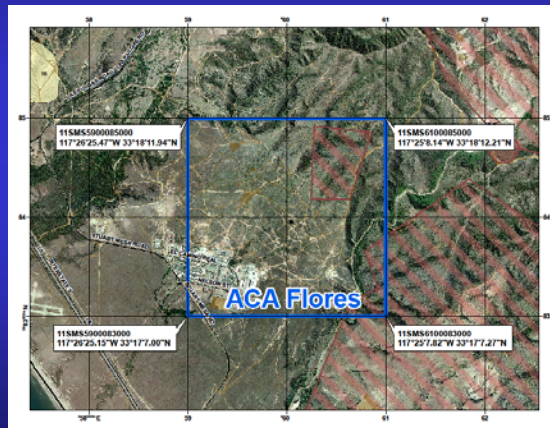
## **IMPACT AREAS**

- **UAV operators must remain vigilant when transiting near ground training ranges when “Live Fire” training is being conducted.**
- **The Quebec, Whiskey, and Zulu Impact Areas require EOD support if the UAV needs to be recovered.**
- **Retrieving UAV down range requires coordination and authorization from Longrifle, regardless of what impact area.**

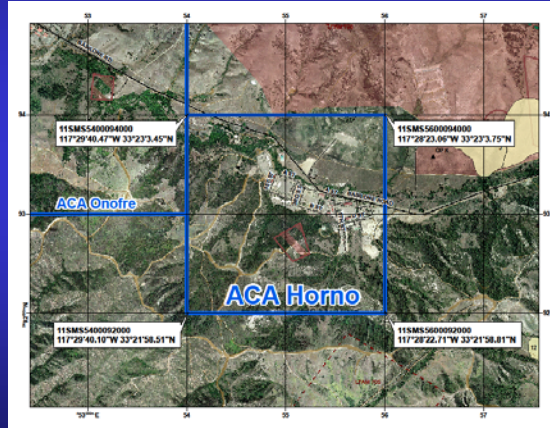
# SCHEDULING

- Scheduling UAV training:
  - Needs to be scheduled in RFMSS at least 7 days prior (standard ACA) IOT inform non-participating airspace users.
- Non-Standard UAV training:
  - Scheduled at minimum 14 days from the event.
  - Submitted to RCO 14 Days Prior to Event
  - Only can be executed when the air station is closed.

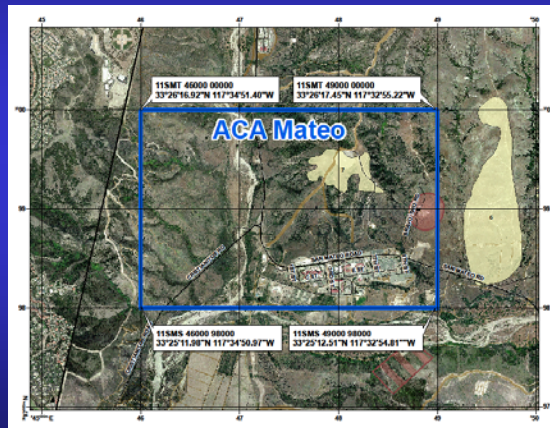
## ACA Florez SURFACE TO 1,500' AGL



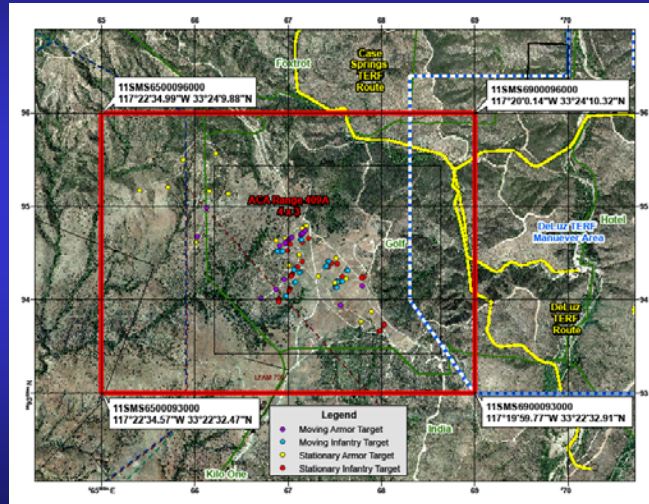
# ACAs Onofre & Horno SURFACE TO 1,500' AGL



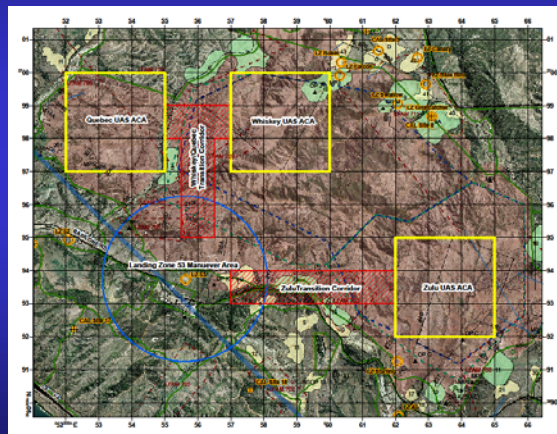
# ACA Mateo SURFACE TO 1,500' AGL



# ACA R409A



# LZ 53 UAS AO





## Further Information

- Call us if you need help:
  - 725-0355
  - FAX 725- 4090
  - E-Mail:
    - Range Scheduling
    - [pndl\\_otrangescheduling@usmc.mil](mailto:pndl_otrangescheduling@usmc.mil)
    - [Joe.Vaineharrison@usmc.mil](mailto:Joe.Vaineharrison@usmc.mil)

## Turn In Test When Completed

