



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE CALIFORNIA



EDWARDSAFBGM2017-13-01

13 June 2017

MEMORANDUM FOR HQ/AFMC/A3, 412 OG/CC, 412 OSS/CC

FROM: 412 TW/CC
195 E Popson Ave
Edwards AFB, CA

SUBJECT: Edwards Air Force Base Guidance Memorandum to HQ AFMC/A3 Guidance Memorandum, *Non-Military Unmanned Aerial Systems (UAS)* (Attachment 1).

By Order of the Edwards Air Force Base Commander, this Edwards Air Force Base Guidance Memorandum immediately implements HQ AFMC/A3 Guidance Memorandum, *Non-Military Unmanned Aerial Systems (UAS)* (Attachment 1) governing the 412 TW Personal Small Unmanned Aircraft System (SUAS) Area and procedures. Compliance with this Memorandum is mandatory. To the extent its directions are inconsistent with other Edwards Air Force Base publications; the information herein prevails, in accordance with AFI 33-360, *Publications and Forms Management*.

1. 412 TW Personal SUAS Area:

- a. This area is designated for personal remote control SUAS operations by the base populace for hobby/recreational purposes. These operations are limited to hand-held launch or vertical take-off capability. A model aircraft is a non-human-carrying SUAS capable of sustained flight in the atmosphere. These operations may not exceed the limitations of the set of guidelines and User's Safety Code below.
 - b. The area is defined as follows: 34-55-42N/117-56-25W, 34-55-57N/117-56-25W, 34-55-57N/117-56-34W, 34-55-42N/117-56-34W, to 34-55-42N/117-56-25N, surface to 400 ft. Above Ground Level (AGL). (Attachment 2).
 - c. The area dimensions are identified with metal posts stating "UAS Boundary". In addition, the User's Safety Code is posted at the site.
2. 412 TW User's Safety Code. Area Users shall:
- a. Operate SUAS only within approved area.
 - b. Operate only between sunrise and sunset.
 - c. Operate no higher than 400 ft. AGL.
 - d. Not exceed a SUAS takeoff weight of 20 lbs.
 - e. Maintain positive control of SUAS during entire flight.
 - f. Maintain visual Line of Sight (LOS) at all times.

- g. Yield right of way to all manned aircraft, as applicable.
 - h. See and avoid all other aircraft.
 - i. Use a ground spotter when appropriate (This can be a SUAS operator).
 - j. Ensure SUAS is registered and clearly marked with FAA SUAS certificate number.
 - k. Not operate a SUAS metal-blade rotors.
 - l. Not operate a SUAS that isn't battery powered.
 - m. Not operate a SUAS with pyrotechnic devices, any device which propels a projectile, or drops any object.
 - n. Not record images/video from SUAS.
 - o. Avoid overflying unprotected people, vehicles or occupied structures by at least 25 feet to avoid endangerment of life and property of others.
 - p. Under no circumstances may an operator or other person touch a SUAS in flight, except to divert it from striking an individual.
 - q. Ensure launch area is clear of all individuals except other flyers.
 - r. Not operate in adverse weather conditions such as in high winds or reduced visibility.
 - s. Not operate under the influence of alcohol or drugs.
 - t. Immediately cease operations when told to do so by Installation Commander or any other designated representative.
3. The information contained within this Guidance Memorandum will be disseminated as follows:
- a. Edwards AFB Homepage.
 - b. Corvias Group Homepage.
 - c. Public Affairs base-wide e-mail.
 - d. R-2515 Airspace briefing.
 - e. 412 TW Newcomers Orientation Briefing.

This Memorandum becomes void after one year has elapsed from the date of this Memorandum, or upon incorporation by interim change to, or rewrite of EDWARDSAFBI 13-100, *Airfield and Flying Procedures*, whichever is earlier.

CARL E. SCHAEFER
Brigadier General, USAF
Commander

Attachment 1

HQ AFMC/A3 Guidance Memorandum, *Non-Military Unmanned Aerial Systems (UAS)*.



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE MATERIEL COMMAND
WRIGHT-PATTERSON AIR FORCE BASE OHIO

MEMORANDUM FOR AFMC ALINST/CC/CL

FROM: HQ AFMC/A3
4375 Chidlaw Rd
Wright-Patterson AFB, OH 45433-5006

SUBJECT: Non-Military Unmanned Aircraft Systems (UAS)

1. Based on the dramatic increase in authorized commercial small unmanned aircraft systems (UAS) use under Section 333 of the FY12 Federal Aviation Administration (FAA) Modernization and Reform Act, along with an increase in personal / hobbyist UAS activities, there is a potential for increased risk to manned flight operations. In the interest of safety and in accordance with FAA guidance, AFMC installation commanders shall take the following actions:

- a. Assess and refine, as needed, guidance and training to your Wings, Aircrews, Air Traffic Control (ATC), Airfield Management and Airspace Scheduling personnel to address and mitigate the risk of increased civil, commercial, and personal UAS operations in and around terminal areas, Military Training Routes (MTR) and Special Use Airspace (SUA). This new assessment should be included in Aircrew, ATC and Airfield Management operational risk management.
- b. Assess and establish or refine, as needed, local guidance on the use of personally owned UAS in order to mitigate the potential impact on operations from UAS flying over installation property and within Class C/D/E/G airspace controlled by AFMC units. This UAS guidance should be combined within any existing installation policy governing personal model aircraft operations.

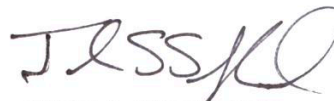
2. Local installation policy on personal UAS use must contain the following minimum restrictions per existing FAA and USAF guidance but may include additional more restrictive criteria based on the installation's force protection and operational environment:

- a. Operators will comply with N JO 7210.889, N JO 7210.891, AC No.91-57A and the best practices in the FAA's model aircraft website: <http://www.faa.gov/uas/>
- b. Must not be flown within 5 miles of the airfield without prior notification to the airfield control tower/facility. The installation commander, the airfield manager and the air traffic control facility have the right to deny the operation of UAS if they believe the operation could impact the mission or safety.

Deliver and Support Agile War-Winning Capabilities

Attachment 1 (cont.)

- c. Must be flown at altitudes below 400 ft above ground level (note: installations may impose more restrictive lower limits) and remain clear of surrounding obstacles.
 - d. Must be flown only in approved areas-locations that do not interfere with the operations, safety or security of personnel, facilities, and/or resources. (note: installations may further define)
 - e. Must not weigh in excess of 55 lbs (25 kg).
 - f. Must not be flown in a careless or reckless manner which could endanger people or property.
 - g. Must keep the aircraft within visual line of sight at all times.
 - h. Must remain well clear of and operated in a manner that does not interfere with and gives way to any manned aircraft.
 - i. Must not fly near large crowds of people.
 - j. Must use only approved frequencies for operation IAW local guidelines. Consult the installation spectrum manager (ISM) for guidance.
 - k. Must remind UAS users that it is a federal misdemeanor to photograph a military installation or to use an aircraft to photograph a military installation under Title 18 of the United States Code Sections 795 and 796.
3. Each AFMC installation's UAS policy will be codified in their respective Integrated Defense Plan (IDP) during revision with consideration to FAA notices of proposed rulemaking and revised FAA model aircraft guidelines. Additionally, installation commanders will make their UAS policy and guidance readily available to their installation populations and the general public.
4. Guidance for military use of UAS can be found in AFI 11-502 and AFI 11-5FT series publications.
5. My POC for this matter is Col Garry Haase, HQ AFMC/A3O, at DSN 787-0165, Comm (937) 257-0165, or garry.haase@us.af.mil.



JOHN S. SHAPLAND
Brigadier General, USAF
Director of Air, Space and
Information Operations

Attachment 1 (cont.)

4 Attachments:

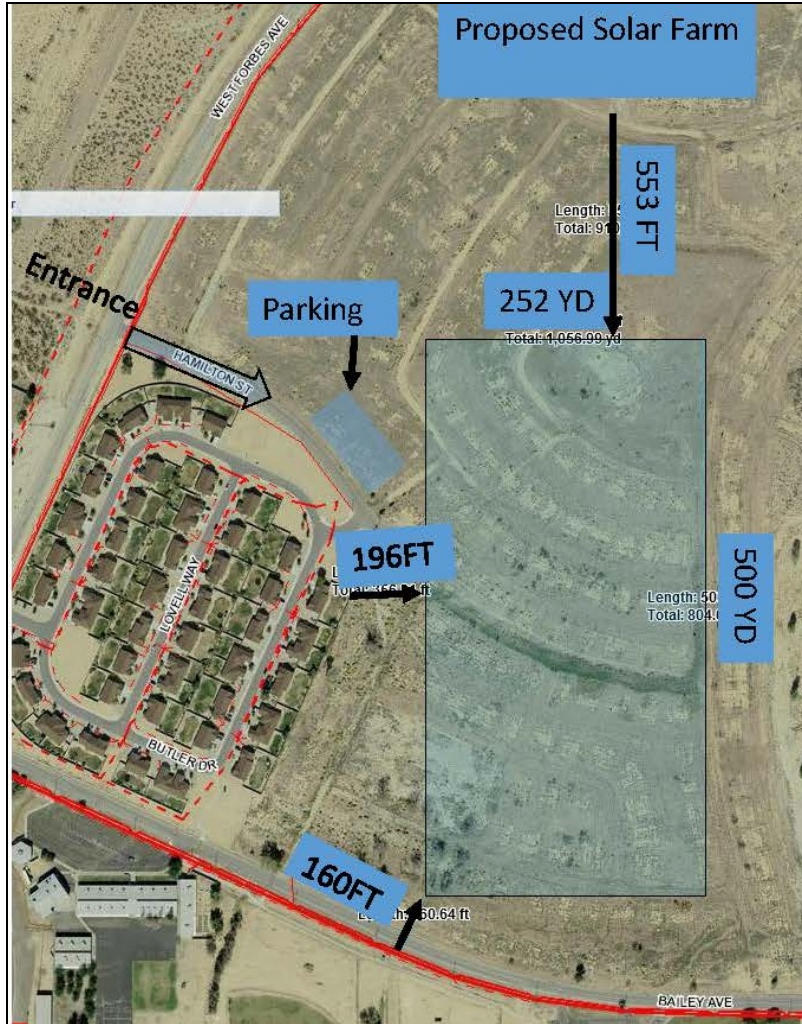
1. N JO 7210.889 - Unmanned Aircraft Operations in the National Airspace System (NAS)
2. N JO 7210.891 - Unmanned Aircraft Operations in the National Airspace System (NAS)
3. Advisory Circular No. 91-57A – Model Aircraft Operating Standards
4. Know Before You Fly - Unmanned Flight Safety Guidance

cc:

AF/A3O
AF/SEC
ACC/A3O
AETC/A3O
AFGSC/A3O
AFRC/A3O
AMC/A3O
AFIMSC/CC
AFLCMC/CC
AFNWC/CC
AFRL/CC
AFSC/CC
AFTC/CC

Attachment 2

412 TW Personal SUAS Area.



Coordinates of Area

NE: 34-55-57N
117-56-25 W

NW: 34-55-57 N
117-56-34 W

SW: 34-55-42 N
117-56-34 W

SE: 34-55-42 N
117-56-25 W