

General Safety Rules and Flight profiles

Brennan Field

Location

- MGRS approximate location 11SLT 2954 9287
- Field elevation is approximately 900 MSL.

Rules

- Field is approved for Raven, Wasp, Batmav, and Puma
- 30db attenuation is required for Puma and Raven. 20db attenuation is required for Wasp and Batmav.
- Un-attenuated flights are possible if SUAV frequencies in use are coordinated thru the Flight Coordinator.
- No more than 3 SUAV's should operate simultaneously.
- No flights should exceed a distance of 0.7km from the SUAV operator/observer.
- An accurate boot up altitude of 900 feet MSL + or - 50 feet must be verified prior to launch.
- Flights not to exceed 2100 feet MSL or 1200 feet AGL. Flights should not go below 1000 feet MSL or 100 feet AGL unless taking off or landing.
- NOTAM's need to be filed with FSS prior to any flights.
- The Flight Coordinator or Lead SUAV operator is responsible for filing NOTAM's.
- Navigation waypoints must be entered into the GCS prior to flight.

| | Range | Bearing |
|---|-------|---------|
| Waypoint A 11SLT 2894 9287 | 600m | 269 |
| Waypoint B 11SLT 2889 9287 | 650m | 269 |
| Waypoint C 11SLT 2924 9235 | 600m | 209 |
| Waypoint D 11SLT 2921 9231 | 650m | 209 |
| Waypoint E 11SLT 2904 9283 | 500m | 266 |
| Waypoint L will be set to 11SLT 2944 9285 | | |

- Flights will be terminated for adverse wind and weather conditions.

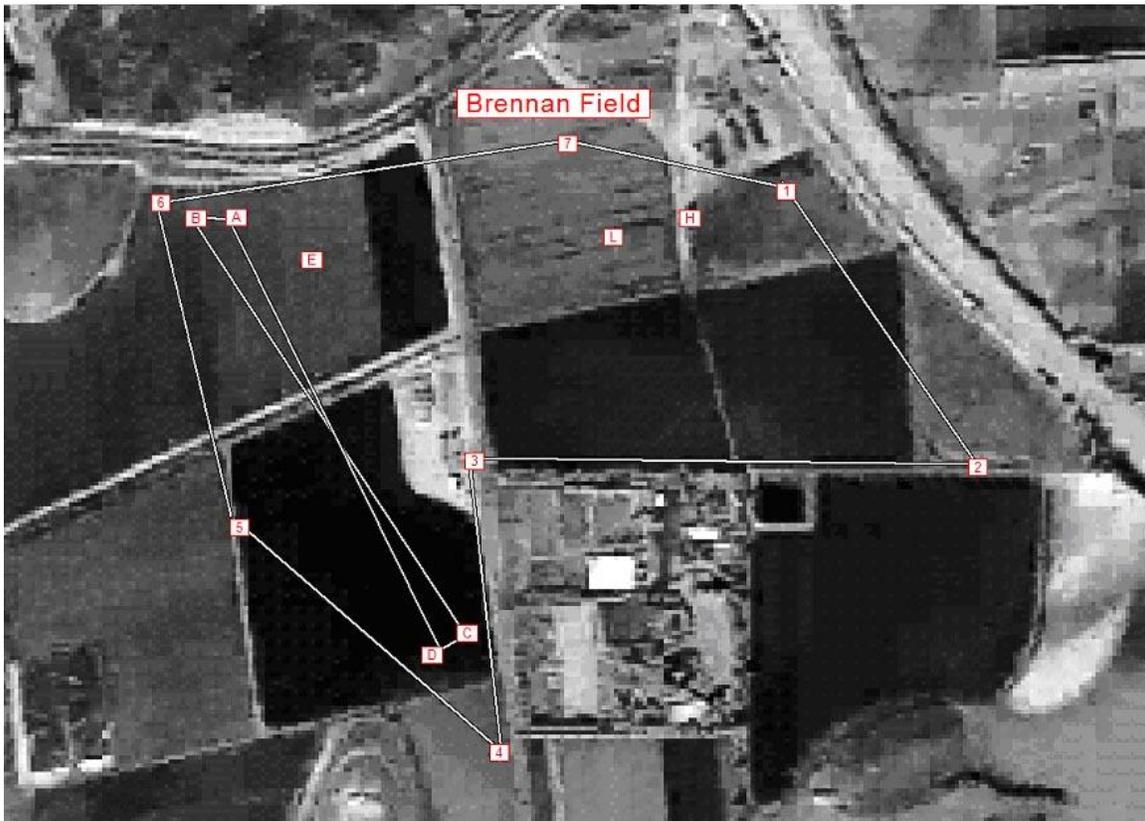
Flight Profile

- The SUAV will always be launched into the wind.
- After launch the SUAV will normally be flown to an altitude of 300 feet AGL.
- Once the SUAV has reached its climb altitude the SUAV operator can complete the flight performance test at their discretion.

- All flight performance tests must remain in the airspace defined by these MGRS coordinates. (Ranges and bearings are in reference to the GCS HOME coordinate of 11SLT 2954 9287).

| | Range | Bearing |
|--------------------|-------|---------|
| 1) 11SLT 2967 9290 | 132m | 74 |
| 2) 11SLT 2993 9255 | 500m | 128 |
| 3) 11SLT 2926 9257 | 420m | 222 |
| 4) 11SLT 2927 9221 | 700m | 200 |
| 5) 11SLT 2894 9251 | 700m | 239 |
| 6) 11SLT 2884 9289 | 700m | 271 |
| 7) 11SLT 2938 9295 | 174m | 295 |

- The SUAV will always be landed into the wind.
- (With a west and calm wind condition) a downwind, base, and final will be performed using left turns. With an east wind condition a straight in approach will be executed. All approaches to land will be made from the southwest.



Upper Field Waste Management

Location

- MGRS approximate location 11SLT 3416 9813
- Field altitude is approximately 900 feet MSL.

Rules

- Field is approved for Raven, Swift, Pointer, Wasp, Batmav, Puma, and Dragon Eye.
- 30db attenuation is required for Raven, Pointer, Puma, Swift, and Dragon Eye. 20db attenuation is required for Wasp and Batmav.
- Un-attenuated flights are possible if SUAV frequencies in use are coordinated thru the Flight Coordinator.
- No more than 3 SUAV's should operate simultaneously.
- No flights should exceed a distance of 0.7km from the SUAV operator/observer.
- An accurate boot up altitude of 900 feet MSL + or - 50 feet must be verified prior to launch.
- Flights not to exceed 2100 feet MSL or 1200 feet AGL.
- Flights should not go below 1000 feet MSL or 100 feet AGL unless taking off or landing.
- NOTAM's need to be filed with FSS prior to any flights.
- The Flight Coordinator or Lead SUAV operator is responsible for filing NOTAM's.
- Navigation waypoints must be entered into the GCS prior to flight.

South-East Navigation pattern

| | Range | Bearing |
|----------------------------|-------|---------|
| Waypoint A 11SLT 3415 9758 | 550m | 179 |
| Waypoint B 11SLT 3416 9748 | 650m | 179 |
| Waypoint C 11SLT 3463 9786 | 550m | 119 |
| Waypoint D 11SLT 3471 9780 | 650m | 119 |
| Waypoint E 11SLT 3457 9842 | 500m | 54 |

(Waypoint L = Waypoint H)

West Navigation pattern

| | Range | Bearing |
|-----------------------------|-------|---------|
| Waypoint A 11SLT 3360 9813 | 550m | 269 |
| Waypoint B 11SLT 3350 9813 | 650m | 269 |
| Waypoint C 11SLT 3388 9765 | 550m | 209 |
| Waypoint D 11SLT 3383 9757 | 650m | 209 |
| Waypoint E 11SL T 3457 9842 | 500m | 54 |

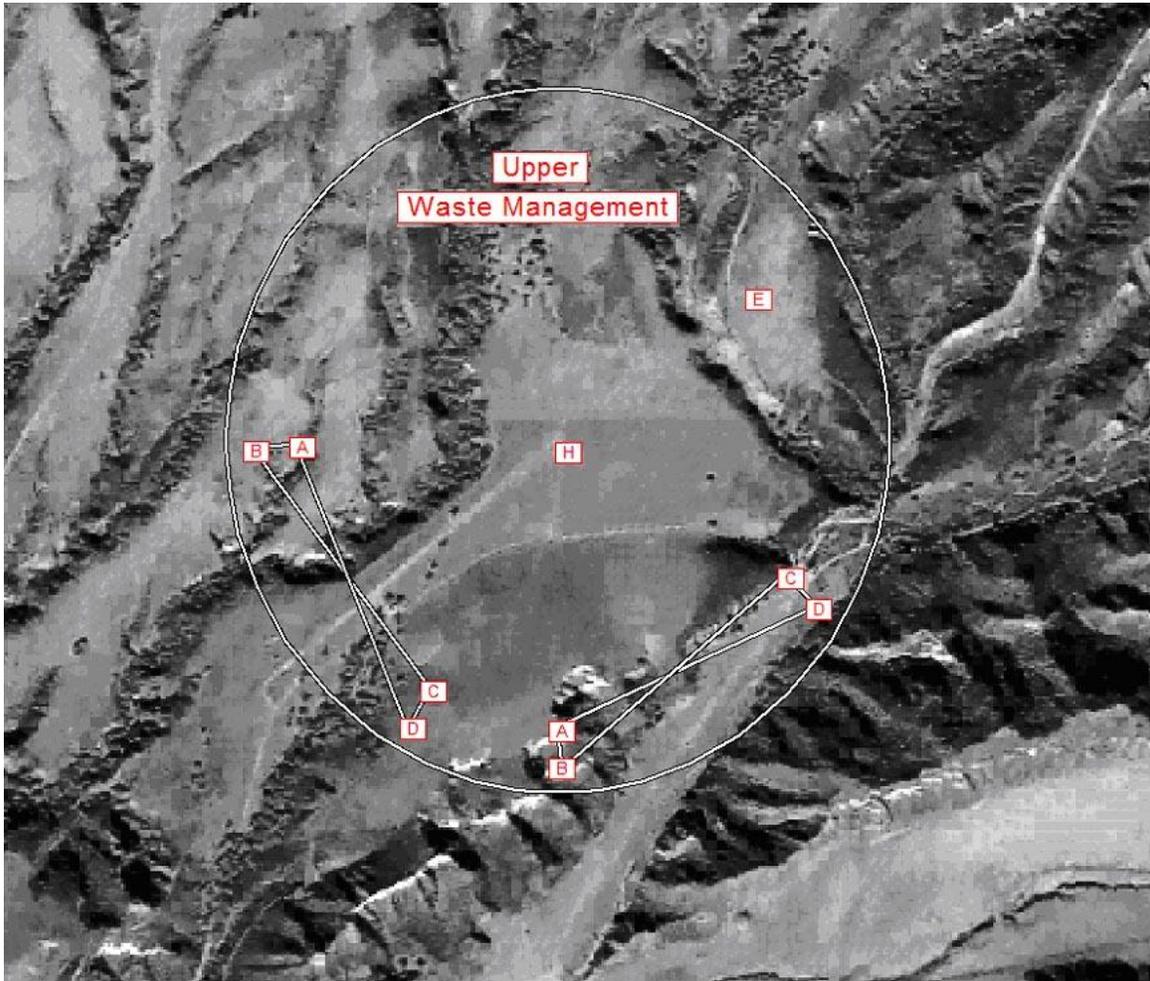
Waypoint L = Waypoint H

- Flights will be terminated for adverse wind and weather conditions.

Flight Profile

- The SUAV will always be launched into the wind.
- After launch the SUAV will normally be flown to an altitude of 300 feet AGL. Once the SUAV has reached its climb altitude the SUAV operator can complete the flight performance test at their discretion.

- All flights must remain inside a 0.7km radius of the HOME coordinate. (Ranges and bearings are in reference to the GCS HOME coordinate of 11SLT 3416 9813).
- The SUAV will always be landed into the wind.



Lower Waste Management

Location

- MGRS approximate location 11SLT 3542 9728
- Field altitude is approximately 900 feet MSL.

Rules

- Field is approved for Raven, Pointer Swift, Puma, Wasp, and Batmav.
- 30db attenuation is required for Raven, Pointer, Puma, and Swift. 20db attenuation is required for Wasp and Batmav.

- Un-attenuated flights are possible if SUAV frequencies in use are coordinated thru the Flight Coordinator.
- No more than 2 SUAV's should operate simultaneously.
- No flights should exceed a distance of 0.7km from the SUAV operator/observer.
- An accurate boot up altitude of 900 feet MSL + or – 50 feet must be verified prior to launch.
- Flights not to exceed 2100 feet MSL or 1200 feet AGL.
- Flights should not go below 1000 feet MSL or 100 feet AGL unless taking off or landing.
- Navigation waypoints must be entered into the GCS prior to flight.

| | Range | Bearing |
|----------------------------|-------|---------|
| Waypoint A 11SLT 3494 9756 | 550m | 299 |
| Waypoint B 11SLT 3485 9761 | 650m | 299 |
| Waypoint C 11SLT 3494 9700 | 550m | 239 |
| Waypoint D 11SLT 3485 9696 | 650m | 239 |
| Waypoint E 11SLT 3491 9728 | 500m | 269 |
| Waypoint L = Waypoint H | | |

- Flights will be terminated for adverse wind and weather conditions.

Flight Profile

- The SUAV will always be launched into the wind.
- After launch the SUAV will be flown to an altitude of 300 feet AGL. Once the SUAV has reached its climb altitude the SUAV operator can complete the flight performance test at their discretion.
- All flight performance tests must remain in the airspace defined by these MGRS coordinates. (Ranges and bearings are in reference to the GCS HOME coordinate of 11SLT 3542 9728).

| | Range | Bearing |
|--------------------|-------|---------|
| 1) 11SLT 3570 9757 | 400m | 44 |
| 2) 11SLT 3570 9713 | 300m | 114 |
| 3) 11SLT 3484 9689 | 700m | 235 |
| 4) 11SLT 3474 9703 | 700m | 249 |
| 5) 11SLT 3472 9727 | 700m | 269 |
| 6) 11SLT 3480 9764 | 700m | 299 |
| 7) 11SLT 3492 9777 | 700m | 314 |

- The SUAV will always be landed into the wind.



Fillmore

Location

- MGRS approximate location 11S LU 21930 06730
- Field elevation is approximately 400 MSL.

Rules

- Field is only already approved for Raven, Wasp, and Batmav SUAV flight-testing.
- 30db attenuation is required for Puma and Raven. 20db attenuation is required for Wasp and Batmav.
- Un-attenuated flights are possible if SUAV frequencies in use are coordinated thru the Flight Coordinator.
- No more than 3 SUAV's should operate simultaneously.
- No flights should exceed a distance of 0.7km from the SUAV operator/observer.
- An accurate boot up altitude of 400 feet MSL + or - 50 feet must be verified prior to launch.

- Flights not to exceed 1600 feet MSL or 1200 feet AGL. Flights should not go below 500 feet MSL or 100 feet AGL unless taking off or landing.
- NOTAM's need to be filed with FSS prior to any flights.
- The Flight Coordinator or Lead SUAV operator is responsible for filing NOTAM's.
- Navigation waypoints must be entered into the GCS prior to flight.

WEST AREA:

| | Range | Bearing |
|---|-------|---------|
| Waypoint A 11SLU 21277 06794 | 597m | 081 |
| Waypoint B 11SLU 21325 07064 | 635m | 106 |
| Waypoint C 11SLU 21236 07063 | 716m | 102 |
| Waypoint D 11SLU 21315 06526 | 594m | 054 |
| Waypoint E 11SLU 21213 06532 | 690m | 058 |
| Waypoint L will be set to 11SLU 21876 06760 | | |

EAST AREA:

| | Range | Bearing |
|---|-------|---------|
| Waypoint A 11SLU 22578 06741 | 702m | 255 |
| Waypoint B 11SLU 22514 06448 | 700m | 280 |
| Waypoint C 11SLU 22615 06448 | 789m | 277 |
| Waypoint D 11SLU 22553 07008 | 721m | 234 |
| Waypoint E 11SLU 22646 07001 | 808m | 237 |
| Waypoint L will be set to 11SLU 21876 06760 | | |

SOUTH AREA:

| | Range | Bearing |
|---|-------|---------|
| Waypoint A 11SLU 21945 06097 | 646m | 339 |
| Waypoint B 11SLU 21625 06173 | 619m | 009 |
| Waypoint C 11SLU 21622 06016 | 772m | 004 |
| Waypoint D 11SLU 22245 06166 | 678m | 313 |
| Waypoint E 11SLU 22245 06016 | 812m | 139 |
| Waypoint L will be set to 11SLU 21876 06760 | | |

- Flights will be terminated for adverse wind and weather conditions.

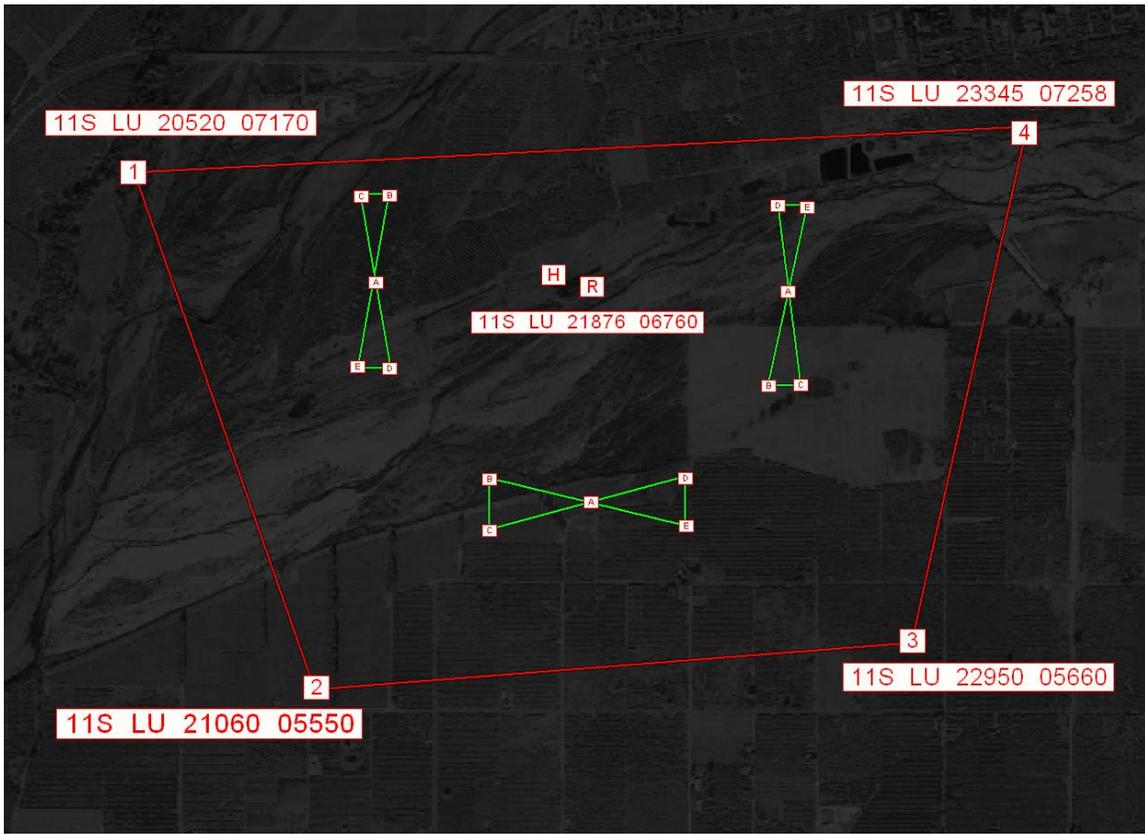
Flight Profile

- The SUAV will always be launched into the wind.
- After launch the SUAV will be flown to an altitude of 300 feet AGL.
- Once the SUAV has reached its climb altitude the SUAV operator can complete the flight performance test at their discretion.
- All flight performance tests must remain in the airspace defined by these MGRS coordinates. (Ranges and bearings are in reference to the GCS HOME coordinate of 11SLU 21876 06760).

Range Bearing

- 1) 11SLU 20520 07170 1415m 092
- 2) 11SLU 21060 05550 1453m 019
- 3) 11SLU 22950 05660 1534m 301
- 4) 11SLU 23345 07258 1550m 237

- The SUAV will always be landed into the wind.
- With a west and calm wind condition, a downwind, base, and final will be performed using left turns. With an east wind condition a straight in approach will be executed. All approaches to land will be made from the southwest.



Taft

Location

- MGRS approximate location 11SKU 81660 89770
- Field elevation is approximately 600 MSL.

Rules

- Field is only already approved for Raven, Wasp, and Batmav SUAV flight-testing.
- 30db attenuation is required for Puma and Raven. 20db attenuation is required for Wasp and Batmav.

- Un-attenuated flights are possible if SUAV frequencies in use are coordinated thru the Flight Coordinator.
 - No more than 3 SUAV's should operate simultaneously.
 - No flights should exceed a distance of 0.7km from the SUAV operator/observer.
 - An accurate boot up altitude of 600 feet MSL + or – 50 feet must be verified prior to launch.
 - Flights not to exceed 1800 feet MSL or 1200 feet AGL. Flights should not go below 700 feet MSL or 100 feet AGL unless taking off or landing.
 - NOTAM's need to be filed with FSS prior to any flights.
 - The Flight Coordinator or Lead SUAV operator is responsible for filing NOTAM's.
- Navigation waypoints must be entered into the GCS prior to flight.

WEST AREA:

| | Range | Bearing |
|---|-------|---------|
| Waypoint A 11SKU 80988 89765 | 714m | 075 |
| Waypoint B 11SKU 81046 90048 | 715m | 099 |
| Waypoint C 11SKU 80960 90053 | 798m | 097 |
| Waypoint D 11SKU 81022 89492 | 724m | 054 |
| Waypoint E 11SKU 80913 89485 | 833m | 056 |
| Waypoint L will be set to 11SKU 81660 89770 | | |

EAST AREA:

| | Range | Bearing |
|---|-------|---------|
| Waypoint A 11SKU 82324 89750 | 616m | 245 |
| Waypoint B 11SKU 82268 89415 | 648m | 286 |
| Waypoint C 11SKU 82374 89405 | 749m | 282 |
| Waypoint D 11SKU 82278 90056 | 638m | 067 |
| Waypoint E 11SKU 82384 90051 | 730m | 231 |
| Waypoint L will be set to 11SKU 81660 89770 | | |

- Flights will be terminated for adverse wind and weather conditions.

Flight Profile

- The SUAV will always be launched into the wind.
- After launch the SUAV will be flown to an altitude of 300 feet AGL.
- Once the SUAV has reached its climb altitude the SUAV operator can complete the flight performance test at their discretion.
- All flight performance tests must remain in the airspace defined by these MGRS coordinates. (Ranges and bearings are in reference to the GCS HOME coordinate of 11SKU 81706 89754.

Bearing/ Range

- 1) 11SKU 80620 90380 104/1238m
- 2) 11SKU 80610 89180 046/1240m
- 3) 11SKU 82960 89040 285/1449m
- 4) 11SKU 83070 90210 237/1428m

