

## **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.

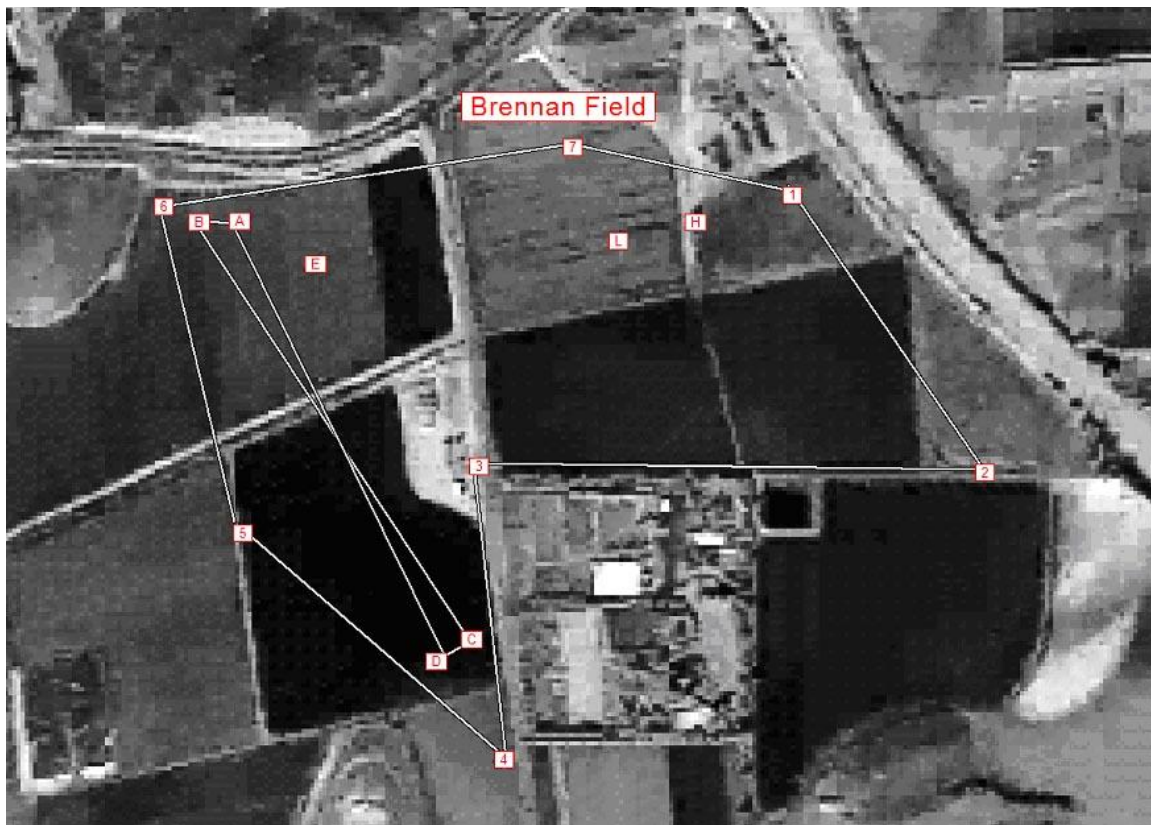
#### **Flight Profile**

- 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

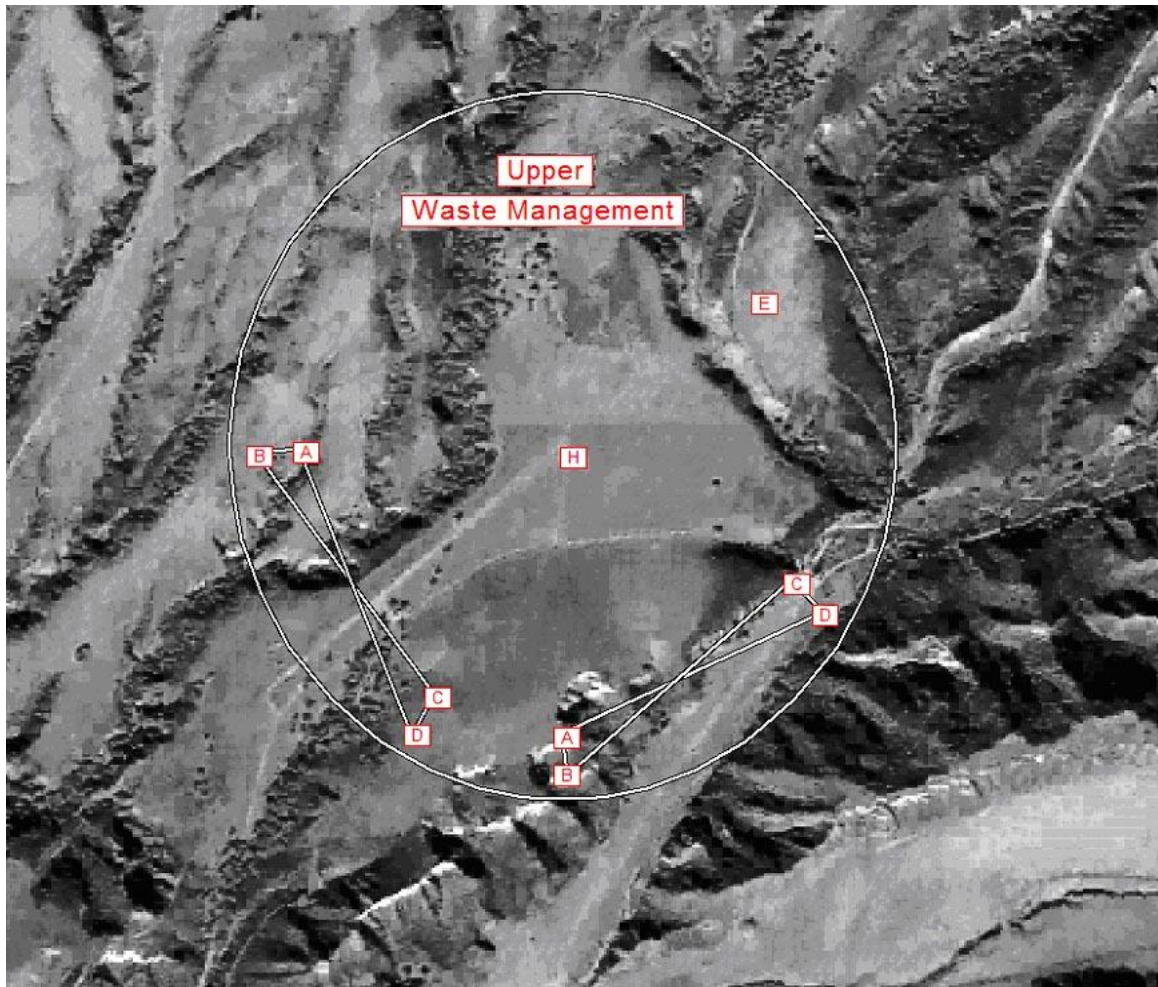
Waypoint L = Waypoint H

- 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.

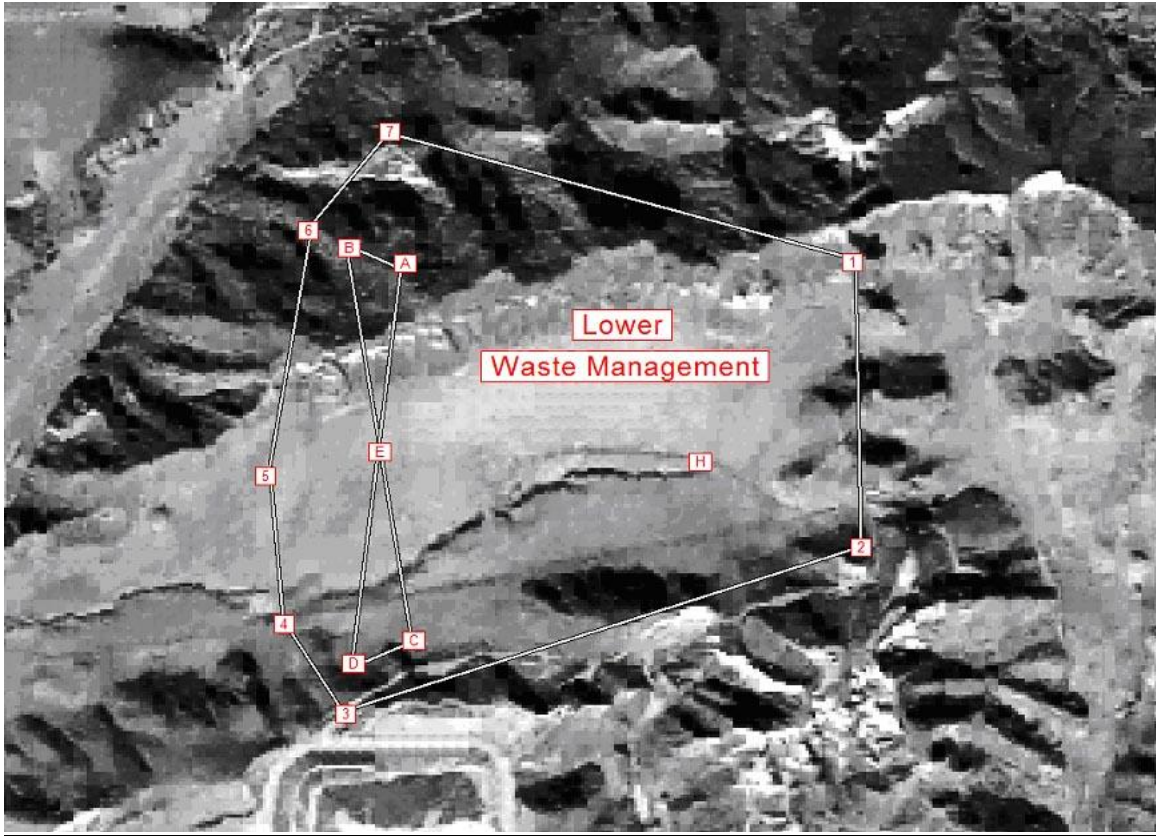
### **Flight Profile**

- 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.

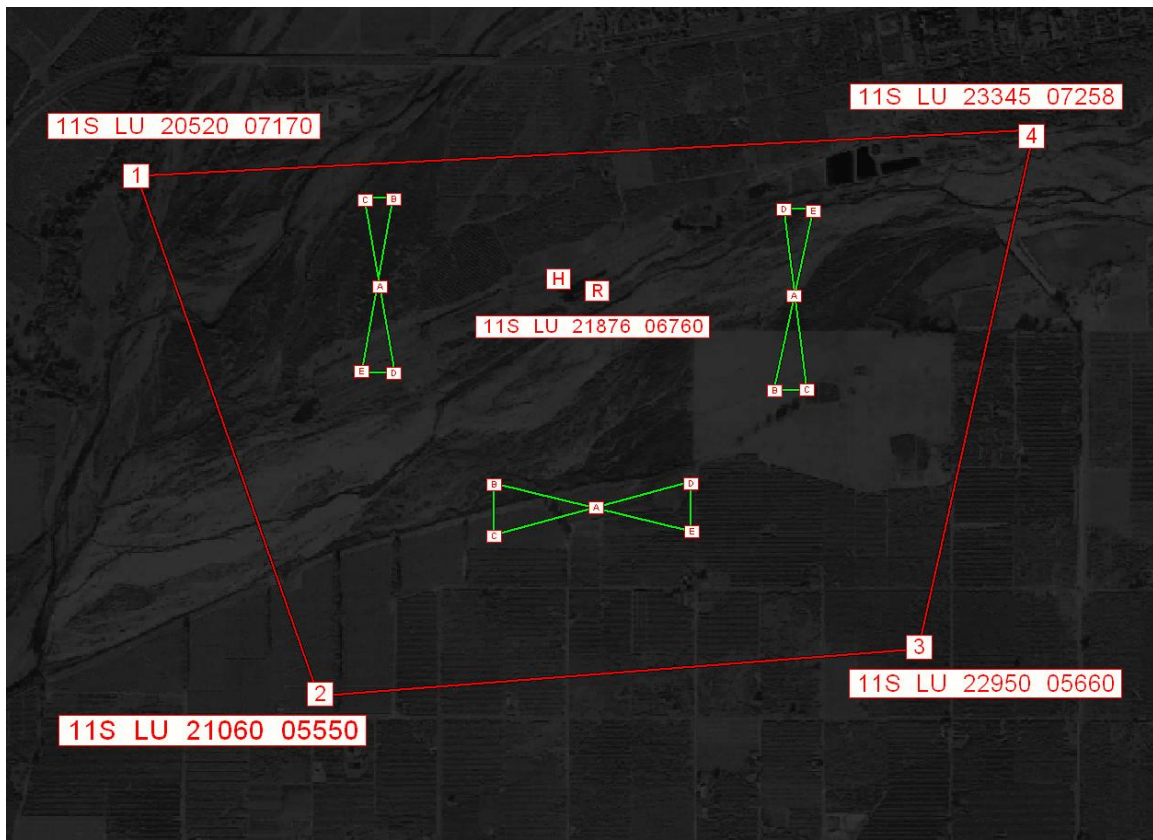
#### **Flight Profile**

- 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      |

