8-3-07

PRE-MISHAP PLAN

Exercise Name

Camp Roberts, CA
date

The purpose of a pre-mishap plan is to have established procedures in place that will assist personnel immediately following a mishap with required notification and reports. It is not all-inclusive since every contingency cannot be anticipated. However, reference to this plan and sound judgment will provided the foundation to get the process underway.

The Experiment Director is responsible for the execution of this Plan.

1. Characteristics of all aircraft are given in the attached **UAS Data Sheets**.

2. The first person to become aware of a mishap will notify the following emergency control personnel:

a. Camp Roberts-based accident:
- CIRPAS
  - Air Boss (805) 227-xxxx
  - Ray Jackson (805) 227-1314
  -

b. If the above cannot be immediately notified, continue to call:
- Range Control
  - (805) 238-8269
  - FM 38.90 "Camp Roberts Range Control," or CIRPAS Handheld radio CH1
- Fire Department
  - (805) 238-8220/8117

c. Give the following information:

- Location of the accident, in UTM if possible
- Type of aircraft
- Severity of the accident, i.e., total loss, fire, etc.
- Extent of injuries, if known

NOTE: When making phone calls, give accurate information and don't hang up until the person you are calling says he/she has all the information needed.

3. Notify the CIRPAS Site Manager, Experiment Director, Director of Flight Operations, CIRPAS Director, and GFR listed in the **Aircraft Emergency Assistance Contact Information Key Personnel** list.

4. If personal injury or property damage (in addition to vehicle in question) occur, notify additional POCs listed on the **Aircraft Emergency Assistance Contact Information** list. These numbers are not necessarily in order of who needs to be contacted first, good judgment and the severity of the mishap will dictate who gets contacted, in what order, and by whom. Also notify the appropriate **Event Specific Contact** person.

5. Ensure only personnel authorized by the Experiment Director, the CIRPAS Site Manager, the local Base Commander, and GFR are allowed on a crash site. All personnel involved in crash recovery must be informed of the onboard HAZMAT (see **Onboard HAZMAT Inventory**) and of appropriate precautions when approaching the accident site. In the event of a crash, the designated rapid reaction

team will deploy to the site with the CIRPAS Recovery Vehicle. Prior to operations the vehicle will be inspected to ensure availability and completeness of fire fighting equipment, Crash Kit, GPS locator system and radio.

6. Ensure all required toxicological testing of personnel involved in aircraft flight and flight-related mishaps are promptly accomplished. Flight crewmembers involved in all flight and flight-related mishaps in which an aircraft is destroyed, property damage is expected to exceed $20,000, five or more personnel are inpatient hospitalized, or any permanent total or partial disability is sustained are subject to testing. Those individuals whose actions or inaction's, in the GFR's or Director of Flight Operations' judgment, may have been factors in the mishap sequence will be tested. This testing should include BAT (Blood Alcohol Test) and Urinalysis for Barbiturates/Narcotics.

7. In the event of personnel injury or death as a result of accident, ensure all outgoing calls are controlled until Program Manager is able to contact next-of-kin. If a fatality is involved, contact the local Coroner's Office to ensure compliance with local procedures.

8. Complete **Airborne Vehicle Lost/Crash Report** and distribute to **Key Personnel** list. Call to verify receipt of report.

9. For a Camp Roberts-based mishap, additional reporting requirements may exist. These additional requirements are outlined in the Camp Roberts Pre-Accident Plan (available from the Camp Roberts Site Manager) and result from:

- **a.** Any incident leading to damage to CA-ANG property.
- **b.** Any incident leading to personnel injury.
- **c.** Any time an incident or the effects of an incident extends beyond the boundaries of Camp Roberts.

10. Collect and put under lock and key the following records for mishap investigation, if applicable:

- **a.** Aircraft maintenance records and logbooks.
- **b.** Records (training/qualification/currency/medical) for all crewmembers, non-crewmembers, and ground personnel involved in the mishap.
- **c.** AGE equipment maintenance records (if a factor in Ground Mishaps).
- **d.** Weather forecasted to crew.
- **e.** NOTAMS crew used prior to flight.

11. Coordinate with the Aviation Safety Official on all reporting and investigations in accordance with Caltech Procedures and contract requirements.

12. Direct all questions from Press to Ray Jackson or NPS Public Affairs Office.

EMERGENCY ASSISTANCE CONTACT INFORMATION

Key Personnel

CIRPAS Site Manager	Ray Jackson	(805) 227-1314 (805) 610-5735 (805) 239-1513 (805) 227-1322	Office Cell Home Fax
Experiment Director			
Director of Flight Operations (Air Boss)			
Government Flight Representative	Dr. Milt Bank	(831) 384-2776 x20 (831) 277-2645 (831) 373-6496 (831) 384-3277	Office Cell Home Fax
CIRPAS Director	Robert Bluth	(831) 384-2776 X10 (831) 384-3277	Office Fax
NPS Public Affairs	John Sanders	(831) 656-3346 (831) 277-4299	Office Cell

Camp Roberts Specific Contact Information

Camp Roberts Range Control		(805) 238-8269	
Camp Roberts Fire Dept		(805) 238-8117 (805) 238-8220	 Non-Emergency
Hospital (Twin Cities)	Emergency Room	(805) 434-4550	
FAA, San Jose FSDO		(408) 291-7681	
FAA, Oakland FSS (Off-Base Crash)		(800) 272-1180 (800) 272-0128	Primary Backup

Company/organization Personnel to be notified:

ONBOARD HAZMAT INVENTORY (Example)

Aircraft	Hazmat	Quantity
Raven	Battery: Lithium Ion	1
BUSTER	Gasoline Battery: 11.1V 1320 mah LiPo	36 ounces 1
RASCAL	Gasoline Battery: 11.1V 4Ah LiPo Battery: 4.8V 1.8Ah NiCd or 7.4V 2Ah LiPo battery: 7.4V 1.8 Ah LiPo	50 ounces 1 1 2
Scan Eagle	Gasoline Battery: 16 cell LiPo	5.5 kg 1

Airborne Vehicle Lost/Crash Report

Lost UAS: Provide last position, altitude and direction of flight.

UAS Crash: Provide known position of crash or best estimate.

Each unit should have requirements for reporting lost or crashed UASs. To ensure that CIRPAS has required information needed to answer Range Control questions, obtain the below information from the UAS Commander:

1. Type UAS: _____

2. Owning Unit: _____

3. Date of loss _____(DD/MO/YR) Time_____(Local/Zulu)

4. Site/location of incident:_____

5. Flight Log information:
Pilot: _____
Mission Controller:_____
Unit:_____
Channel:_____ GPS Keyed:____Y____N____
Launch Time:_____
Duration of Flight::_____
Weather: _____
Temperature:_____
Wind Speed:_____
Wind Direction:_____
Lighting: Night _____ Dawn ____Day ___ Dusk____
Camera Type: ____Day ____F/L Night ____S/L Night

6. Other Factors:
Moonlight/illumination: _____
Precipitation:_____
Clouds:_____
(Other):_____

7. Circumstances:
a. Origin/launch site:_____
b. Mission:_____
c. Launch problem: _____ Landing problem: _____
d. Problem during flight:_____
e. Flight mode at time of loss: M__ A __H__ L__ N__
f. Commanded altitude or throttle setting:_____
g. Air vehicle altitude above ground: _____Feet
h. Air vehicle heading: _____ Degrees magnetic
i. Last known UAS location:_____
j. Rally point location and altitude:_____

k. Loss of Link indications:_____
l. GPS startup problems:_____
m. Previous problems/maintenance issue that may have contributed:
_____
n. Flight recorded/taped? Y/N Location of tape_____

8. Summary of mishap and damage:
_____
_____
_____

9. Actions taken upon/after loss (search pattern used, number of searchers, duration of search, use of aircraft to assist, etc.):
_____
_____

10. Damage
a. Aircraft: _____
b. DoD property damage: _____
_____
c. Private property damage_____
_____

11. Personnel information and injuries (if any).
• Pilot (Name, Rank):_____
_____
• Mission Controller (Name, Rank):_____
_____
• Date and location of Pilot/Mission Controller completion of certified training:_____
• Witnesses: (Name, Rank, and role (i.e., RVT Data Capture, UAV Team Leader, etc.))_____
_____
_____
• Other personnel: (Name, Rank, and role (i.e., search))
_____
_____
_____