PRE-MISHAP PLAN

JIFX 23-1

McMillan Airfield, Camp Roberts, CA

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 provide the foundation to get the process underway. All procedures in NPSINST 3750.1 will be complied with if an NPS aircraft or personnel are involved in a mishap.

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

1. Characteristics of all aircraft will be found in the RCC Questionnaires and Risk Assessment Form DD2977 that are submitted prior to any flights. These documents will be co-located with the Air Boss during operations.

2. In case of a mishap the flying unit will immediately notify the Air Boss via Radio or phone. The Air Boss will immediately notify the following emergency control personnel: (If in the unlikely event that the flying unit cannot reach the Air Boss then they must make the attempt to contact)
   a. JIFX Director
      ● (831) 383-9859
   b. Roberts Air Operations “Robert’s Radio”
      ● (805) 238-8203
      ● Handheld radio “AIR” net.
   c. Range Control
      ● (805) 238-8503
      ● FM 38.90 “Camp Roberts Range Control,” or Handheld radio “Range C” net
   d. Fire Department (if warranted; such as fire or injury)
      ● (805) 238-8406
      ● Handheld radio “Fire Dep” net.
   e. 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., if known.
      ● 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. As soon as possible the Flying unit will fill out the attached “Airborne Vehicle Lost/Crash Report.” NPS will provide a CAL Form 190-40, Incident Report Form, to Range Control whenever:
   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.
d. If requested by Range Control or directed by NPS.

4. As soon as possible NPS will notify the NPS Aviation Safety Officer and others in the NPS Chain of Command as directed by the Director—see Emergency Assistance Contact Information.

5. What other types of accident reports that will be required will be based on the classification of the mishap. See the U.S. Navy Accident Classification Chart at Table 1 for guidance.

<table>
<thead>
<tr>
<th>SEVERITY CLASS</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<tbody>
<tr>
<td>FLIGHT MISHAP (FM)</td>
<td>Total damage cost is $1,000,000 or more and/or aircraft destroyed and/or fatal injury and/or permanent disability.</td>
<td>Total damage cost is $200,000 but less than $1,000,000 and/or permanent partial disability and/or hospitalization of three or more personnel.</td>
<td>Total damage cost is $20,000 but less than $200,000 and/or five lost workdays injury.</td>
</tr>
<tr>
<td>Intent for flight existed, and $20,000 or more DOD aircraft/UAV damage occurred.</td>
<td>FLIGHT-RELATED MISHAP (FRM)</td>
<td>Total damage cost is $1,000,000 or more and/or fatal injury and/or permanent disability.</td>
<td>Total damage cost is $200,000 but less than $1,000,000 and/or permanent partial disability and/or hospitalization of three or more personnel.</td>
</tr>
<tr>
<td>Intent for flight existed with less than $20,000 DOD aircraft or UAV damage.</td>
<td>AVIATION GROUND MISHAP (AGM)</td>
<td>Total damage cost of $1,000,000 or more and/or aircraft destroyed and/or fatal injury and/or permanent total disability.</td>
<td>Total damage cost is $200,000 but less than $1,000,000 and/or permanent partial disability and/or hospitalization of three or more personnel.</td>
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<tr>
<td>No intent for flight existed</td>
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6. Range Control may also request DA Form 2397.


a. Prior to any UAV flights from McMillan Airfield a Risk Assessment and RCC Questionnaire must be completed by the flying organization and approved by NPS. Due to the large variance of UAVs flown from McMillan Airfield an assessment will be made by NPS to determine the Response level and pre-position requirements. The following is a guidance:

- Minimum Risk Recovery Team: (Group 1/2 Type UAS)
  - Unit Rapid Response Members identified
  - Fire Extinguisher at GCS
In the event of a crash the Mission Commander will notify the Air Boss with the last known location of the UAV. NPS will help find and recover the UAV. Note: Group 1/2 Type UAVs often use Lithium batteries and can cause a fire hazard. NPS has lithium bags and gloves available in bldg. #1. In case of fire, or if fire danger is high, notify the Camp Roberts Fire Department.

- **Medium Risk Recovery Team: (Group 3/4 Type UAS)**
  - Unit Rapid Response SME identified
  - Fire Extinguisher at GCS
  - NPS Rapid Response Vehicle Pre-Positioned with TBD but may include:
    - Firefighting trailer
    - Fire Extinguisher
    - Crash Kit
    - GPS locator System
    - Radios
    - Map
    - Spill Kit
    - Shovels
    - Gloves
    - Boundary Tape
  - The NPS Rapid Response Team (RRT) identified. A judgment call will have to be made by the Safety Officer if the RRT will be located near the GCS.
  - In the event of a crash the Air Boss will notify the NPS RRT with the last known location of the UAV. The RRT will be dispatched along with the unit SME. The Air Boss will notify Range Control. The NPS RRT will be in charge of the Crash Site until other Emergency Services arrive.
  - The Unit will be responsible for any Hazardous Spills.
  - Ensure only personnel authorized by the Director, the local Base Commander, and the Aviation Safety Officer are allowed on a crash site. All personnel involved in crash recovery must be informed of the onboard HAZMAT (see Onboard HAZMAT Inventory in Unit’s RCC) and of appropriate precautions when approaching the accident site.

- **High Risk Recovery Team**
  - High Risk UAVs will not be flown w/o direct approval from the Base.
○ All of the above plus perhaps:

(a) Fire Fighting Team on standby or Stationed at McMillan

(b) Fly over terrain cleared of all personnel

8. In the Director’s judgment, flight crewmembers involved in all flight and flight-related mishaps in which either 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. In this situation ensure that all required toxicological testing of personnel are promptly accomplished. This testing should include BAT (Blood Alcohol Test) and Urinalysis for Barbiturates/Narcotics. Star Drug Testing, (805) 434-1477, 3850 Ramada Dr., Paso Robles, CA 93446, is one option.

9. 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. All forms completed per NPS Instructions.

10. Coordinate with the Aviation Safety Official on all reporting and investigations in accordance with NPS’ Procedures.

11. Direct all questions from Press to the JIFX Director or NPS Public Affairs Office.
**EMERGENCY ASSISTANCE CONTACT INFORMATION**

**Key Personnel**

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Phone</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experiment Director</td>
<td>Dr. Michael Richardson</td>
<td>(831) 383-9859</td>
<td>Cell</td>
</tr>
<tr>
<td>Operations Manager</td>
<td>Ashley Hobson</td>
<td>(831) 402-9333</td>
<td>Cell</td>
</tr>
<tr>
<td>Air Manager</td>
<td>Aurelio Monarrez</td>
<td>(951) 522-8330</td>
<td>Cell</td>
</tr>
<tr>
<td>NPS Aviation Safety Officer</td>
<td>CAPT William Sherrod</td>
<td>(904) 662-6920</td>
<td>Cell</td>
</tr>
<tr>
<td>Aviation Activities Operations Officer</td>
<td>CDR David Cohick</td>
<td>(831) 656-2284</td>
<td>Office</td>
</tr>
<tr>
<td>NPS Public Affairs</td>
<td>LCDR Edward Early</td>
<td>(831) 656-3567</td>
<td>Office</td>
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<tr>
<td>Camp Roberts Range Control</td>
<td></td>
<td>(805) 238-8503</td>
<td>Office</td>
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<tr>
<td>Camp Roberts Fire Dept</td>
<td></td>
<td>(805) 238-8406</td>
<td>Office</td>
</tr>
<tr>
<td>Hospital (Twin Cities)</td>
<td>Emergency Room</td>
<td>(805) 434-3400</td>
<td>Office</td>
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<tr>
<td>FAA, San Jose FSDO</td>
<td></td>
<td>(408) 795-4000</td>
<td>Office</td>
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<tr>
<td>FAA, Oakland FSDO (Off-Base Crash)</td>
<td></td>
<td>(510) 748-9559</td>
<td>Office</td>
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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. Commanded altitude or throttle setting: ________________________________
   f. Air vehicle altitude above ground: _______ Feet
   g. Air vehicle heading: _______ Degrees magnetic
   h. Last known UAS location: ________________________________
   i. Rally point location and altitude: ________________________________
   j. Loss of Link indications: ________________________________
k. GPS startup problems:______________________________

1. Previous problems/maintenance issue that may have contributed:

m. 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: _________________________________

________________________________________________

1. 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))

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