

Emergency Procedures

1. Introduction

The Autonomous Rotorcraft Project operates two Yamaha RMAX helicopters (Fig. 1-1). This document emergency procedures.



Fig 1-1. AFDD Autonomous Rotorcraft Project RMAX helicopter in operation at Fort Hunter Liggett in California.

Most emergency procedures are described in the previous attachments for lost link, lost communications, and the airworthiness release.

The remaining emergency procedures are covered by the Yamaha RMAX Operators Manual and the AFDD Aircraft Accident (Incident) Alert Roster.

2. Yamaha Emergency Procedures

The RMAX is factory equipped with an extensive self-monitoring system (Ref. 1). Vehicle status and health are indicated via warning lights both on the back panel and on the underside of the vehicle (Fig. 2-1). Prior to engine start the system monitors and displays faults in the YACS, the backup control system, the signal system, the actuators, the IMU, the charging system, low fuel, and weak radio communication. The system will prevent engine start if any faults are detected. During flight the ARP system monitors and display the same faults in the ground station. These faults are displayed on the Situational Awareness display in the ground station and audibly annunciated over the sound system and trunking radio system.



Fig 2-1. Rear warning lights.

In the event that the External Pilot (EP), Safety Observer (SO), or Ground Station Operator (GSO), detect a fault, the EP will be notified, retake control, and land the aircraft.

3. Accident (Incident)

In the event of an accident, the Moffett ATC tower shall be notified immediately of the accident and the need for emergency medical attention or fire suppression.

AFDD has an established alert roster in the event of an accident or incident (Ref. 2, attached)

Any incident involving an RMAX will be a ground accident because under current US Army AR 385-40, it is a UAV. Information pertinent to completing a DA Form 285 will be gathered on scene for future reporting.

4. References

1. Yamaha RMAX Operation Manual, L15-28199-01, First edition, Jun. 1998.
2. AFDD Aircraft Accident (Incident) Alert Roster, Dec. 5, 2006.

AIRCRAFT ACCIDENT (INCIDENT) ALERT ROSTER

When a report of an aircraft mishap is received, the first person on the ALERT ROSTER is to be called. To ensure a rapid response, only a minimum time should be expended in locating a specific contact. It is necessary only that the message be taken be acknowledged by a person, attempt to contact the second person, and so on, until one person on the list is reached. After reporting the details, remind him that he is the only person notified, and that he is to continue the notification sequence, if deemed necessary, and that he is to call the Moffett Field Emergency Communications Center, Ext 911 at Ames or (650)604-5555 if calling from outside of Ames, and record the official report.

DUTY HOURS

Moffett Field Air Operations
(650)603-9213/14

NON DUTY HOURS

Moffett Security Dispatch
911(on-base) / (650)604-5416

The agency notified will pass on:

Aircraft Location/Type/Call Sign

Time of Report

Brief Description of Incident

Ongoing Search and Rescue Efforts

To any one of the following in order:

	Office Phone	Home Phone	Cell
(b) (6)			
(b) (6)			
(b) (6)			
(b)			
Alternate: (b) (6)			
Alternate: (b) (6)			
Alternate: (b) (6)			

Note:

(1) Person contacted above will ensure the remainder of the four is notified.

(2) Also, in the event one of the following has occurred:

Damage to Aircraft

Damage to Property on Ground

Injury or Death of Crewmembers or others

That person will immediately notify:

(a) 129th Air Rescue Wing Command Post

(650) 603-9333

(b) AMCOM Command Operations Center

(256) 313-2066

(c) AMCOM Aviation Safety Officer

(256) 842 8622

(d) AMC Safety Officer

(703)806-8711 or

AMC Staff Duty Officer

(703)806-9223

(e) US Army Safety Center, Commander

(334)255-2660/3410

(f) Supervisor of all personnel involved.

(3) In the event one of the following has occurred:

Off airport Precautionary Landing

Over Due on Flight Plan

That person will HOLD further notification until additional details are known.