

Adaptive Flight Hornet Maxi Emergency Procedures

Adaptive Flight (AFI) has established a system of actions that the Hornet UAS will perform in the event of a malfunction/emergency. They range from a simple warning indication on the command station to flight termination (FT). Should an unforeseen situation arise, the pilot has the option to operate the sUAS in a R/C manual control if in visual line of sight, perform a normal landing at its present position or return home. Ultimately the emphasis is on safety of others more than meeting mission goals or attempting to land the UA with minimum damage. ATC will be notified as appropriate and advised what flight actions are being performed to resolve the emergency. The Hornet Maxi for all flights will be performed within line of sight.

The AFI Hornet has some built in emergency/safety procedures. The system is dependent on GPS for attitude vector control. If the GPS fails in flight the pilot will have the ability to take a manual control to maintain control and fly back to the home position via the pilot view camera. Another built in safety feature is a complete Flight Control System (FCS) disconnect. This will allow the pilot to take control of the sUAS via R/C and fly the Hornet back to the home location and land safely.