

Emergency procedures

Flight Termination

When the telemetry link is operational and there is a need to terminate the UAV, prospin controls are applied. The engine can be stopped using the command link in the ground control station. Manual control using a separate handset also can be used to take control of the APV-3 for landing or flight termination.

Flight Anomalies

The APV-3 UAV can be re-tasked at any time to divert or return to a home waypoint if there is any concern regarding flight operation or safety. In the event of link loss, the APV-3 will return to home and circle at the landing site.

Engine Failure

If the engine fails, then the control surfaces are manipulated to bring the APV-3 back to the home landing site in a glide toward home at 45 kts IAS.

GPS Loss

In the event of a GPS loss, the APV-3 automatically returns to home by dead reckoning, flying at 45 kts and 400 ft AGL along the calculated home heading. If GPS comes back up, the mission flight plan automatically restarts.