

Emergency procedures

Flight Anomalies

The Vector-P 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 Vector-P will return to home and circle at the landing site, or circle at a predetermined orbit site.

GPS Loss

In the event of a GPS loss, there is no automatic return to home by dead reckoning because the Vector-P UAV is not equipped with a magnetometer and there is no compensation for wind drift. The chase aircraft can relay heading instructions to the ground control station operator to bring the Vector-P back to the launch point. The Vector-P is then landed using the primary RC controller. If GPS is reestablished, the mission flight plan automatically restarts.

Engine Failure

If the engine fails and the Vector-P is within visual range, the primary RC controller is used to glide the UAV back to the launch point for a dead stick landing. Beyond visual range, the telemetry link is used to direct the Vector-P to a suitable site.

Flight Termination

Flight of the Vector-P can be terminated using either the primary RC controller or the telemetry link to shut down the engine.