

Attachment 5
A160 Launch/Recovery

1. **Launch and recovery methods.** The A160 Hummingbird takeoff and landing is commanded from the ground control station and performs takeoffs and landings similar to standard, manned rotorcraft. Launch only takes place after a successful completion of the UAS safety checklist.
2. **Method of pilotage.** The A160 uses a global positioning system (GPS) to navigate, using operator input routing or pre-programmed mission plans. Communication with the aircraft is provided by dual-redundant, two-way datalinks. The primary system operates in the Ku-band frequency range.
3. **Route and altitude procedures.** After launch, the A160 follows a preprogrammed waypoint mission plan or follows position and velocity command inputs by an operator in the ground control station.