

Beyond Visual Line of Sight (BVLOS) Waiver Checklist

Below is a list of documents and components necessary for a successful BVLOS application. Try to complete each of these and provide all relevant information within the appropriate Safety Case document or file. More checkmarks is a more robust Safety Case.

The Iris Automation Waiver Resource Centre (WRC) ensures you address all of these items to the fullest extent possible!

**Updated 3/18/2020*

PACKAGE CHECKLIST:

- Choose a Risk Assessment Methodology such as the JARUS SORA ([link](#));
- Identify a BVLOS Capable UAS Platform;
- Select a BVLOS appropriate operations area (assess ground/air traffic);
- Create and Maintain Flight Operation Documentation;
- Develop a Concept of Operations (CONOP);
- Implement a Fleet Management/Safety Management System that's appropriate for your scale of operations;
- Implement Mitigation into Flight Operation Documentation & CONOP;
- Perform a Command and Control (C2) Assessment;
- Receive or provide Flight Crew with appropriate Training;
- Package all of your documentation into a submission folder for the CAA; and
- Submit your application!

Risk Methodology (Basic Steps):

- Identify Air Risk
- Identify Ground Risk
- Assess Inherent Operational Risk
- Identify & Implement Mitigation
- Assess Mitigation Robustness
- Assess Final Operational Risk

Aircraft:

- Appropriate C2 Link for Operational Area
- FCC Compliant C2 Link
- OEM Available Documentation:



- Performance/Specifications
- System Test/System Validation Data
- System Durability/Reliability Data
- CAA “Approved” (ex. FAA Durability & Reliability Type Certificate)
- Operator developed documentation (if OEM is unavailable) such as:
 - Maintenance Manual
 - Standard Operating Procedures
 - Emergency Procedures
- Redundant Systems (C2/Autopilot/Etc.)
- Regulatory Requirements (See CAA Regulations)
- Cooperative/Non-Cooperative Traffic Mitigation (aircraft)
- Operations Over People Mitigation (aircraft)
- Containment & Validation Data (ex. Geofencing capability)

SITE SURVEY:

- Flight Path
- Operations Volume
 - Contingency Volume
- Emergency Volume
- Launch and Recovery site location (with pictures);
- GCS Location;
- Air Risk Assessment;
- Ground Risk Assessment;

REGULATORY COMPLIANCE:

- Provide mitigation to maintain compliance with applicable CAA regulations on Well Clear/See & Avoid Requirements.
 - Iris Automation’s [Casia system](#)
 - Ground Based Radar
- Assess C2 limitations, performance, etc. for the aircraft and chosen command/control interface.
 - Access the (WRC) for Iris Automation’s help.
- Assess other regulatory compliance items using CAA provided information.

FLIGHT OPERATIONS & DOCUMENTATION:

- Flight Operations/General Operating Manual
- Standard Operating Procedures (SOP)
- Emergency Response Plan
- Safety Management System (SMS) (or) Manual



- Training Manual
- Fleet Management System (or) Manual
- Privacy Policy
- Conduct Training/Verify Procedures

CONOP:

- Access the (WRC) for Iris Automation's CONOP Template
- Build your own CONOP

SAFETY CASE:

- Provide all relevant data and documentation in an easy to follow format.
 - Access the (WRC) for Iris Automation's Safety Case Methodology
- Build your own package

SUBMIT:

- Submit
 - Receive Approval
 - Receive RFI
 - Receive Denial

