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 Regulatory Resource Center (RRC) 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 (RRC) 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 (RRC) 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 (RRC) for Iris Automation's Safety Case Methodology
- ❏ Build your own package

SUBMIT:

- ❏ Submit
    - ❏ Receive Approval
    - ❏ Receive RFI
    - ❏ Receive Denial