RPAS Operational Procedures (Library)

<OperatorName>

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# GENERAL

## Applicability

The RPAS Operational Procedures (Library) is available to all people conducting activities under the authority of the Remotely Piloted Aircraft Operators Certificate (ReOC). The Chief Remote Pilot is responsible for maintaining this document.

The document contains:

* A section that contains general and specific operational procedures
* A section for each RPAS type operated under the authority of the ReOC
* Appendices containing supporting documentation such as, but not limited to:
  + copies of authorisation forms;
  + briefing material;
  + training syllabi;
  + JSA;
  + risk assessment;
  + RPAS time in service log; and
  + defect and maintenance logs

The specific section for each RPAS will include the following information:

* Maintenance information such as pre/post flight checks, maintenance schedules, maintenance manuals for RPA/ground station/camera, etc.
* RPAS operational information such as RPAS user manuals for RPA/ground station/camera, etc.

Information included in this document may be a hard copy or electronic document or included by reference to an external source.

The Chief Remote Pilot will ensure that all information required to safely conduct an operation is available to all persons working under the authority of the ReOC. Where online information is used, the Chief Remote Pilot will consider the availability of online connections prior to the authorisation of the operation.

## Distribution Control

The Chief Remote Pilot shall annually review the contents of this document to ensure the relevance and currency of all procedures. A record of the review shall be made in the revision log of the Chief Remote Pilot’s copy of the manual indicating that the review has been completed and indicating whether any amendments were required as a result of the review.

## Amendment Procedure

This is a living document that contains procedures and information relevant to the safe operation of RPAS. The procedures and information detailed will be approved and controlled by the Chief Remote Pilot. Persons working under the authority of this ReOC will be advised of any changes to this document, including the inclusion of any new procedure or information.

Where in the light of operating experience, errors are found in procedures or information these deficiencies will be reported to the Chief Remote Pilot.

Unless otherwise directed by CASA, all changes to this document will be accepted and approved by the Chief Remote Pilot.

## Revision Log

|  |  |  |  |
| --- | --- | --- | --- |
| **Issue Date** | **Affected Sections** | **Summary of Revision** | **Authorised By** |
| <IssueDate> | All | Initial issue based on CASA template | <CRPName> |
| <IssueDate> | All | Updated to reflect use of FlyFreely software | <CRPName> |
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# COMPANY PROCEDURES

## Normal Procedures

### General Requirements

All operations conducted under the authority of <OperatorName>’s Remote Operator Certificate must be in accordance with the <OperatorName>’s Remotely Piloted Aircraft Operations Manual, RPAS Manufacturer Manuals, <OperatorName>’s Policies and any applicable legislation. Where a procedure in this library conflicts with the manufacturer’s manual, the manufacturer’s guidelines shall take precedence unless the procedure in this library results in a safer operation. Where a procedure in this library conflicts with legislation, the legislation shall take precedence.

All flights are subject to the following rules:

* Every operation must have prior approval by the Chief Remote Pilot;
* All operators must hold a current RePL (Remote Pilot’s Licence) or UAV Controller Certificate;
* RPAS must not be operated within 1500m horizontally and 500 feet vertically of manned aircraft;
* The RPA must manoeuvre clear, descend and land if any manned aircraft is identified near the operational area;
* Flying close to buildings or other obstacles must be avoided unless essential to the operational task;
* Visual line-of-sight (VLOS) with the RPA must always be maintained;
* Flying under the influence of alcohol or drugs (including prescription medication) is not permitted;
* Answering of phone calls or text messages during flights is not permitted;
* RPA must not be flown in rain, snow, sleet or winds in excess of the manufacturer’s recommended maximum;
* RPA must never be flown within 15m of people or animals (note that flights within 30m require special approval, written consent and adherence to specialized procedures);
* Flights must not be conducted in contravention of any federal, state or local legislation (it is the responsibility of the pilot to be aware of all relevant legislation);
* RPAs placed in quarantine (for any reason) are not to be used for any operation until released from the quarantine by the Maintenance Controller;
* Radios are only to be operated by staff holding an approved radio qualification (e.g. Aeronautical Radio Operator Certificate).

### Client Contact Procedure

1. Upon receipt of a client operation request, the assigned remote pilot shall contact the client to obtain a briefing. The briefing must include, at least, the:
   * location and nature of the operation;
   * task deliverables;
   * preferred operational dates and possible alternate dates (for contingency);
   * expected operational duration;
   * land owner contact details where the land is owned by a 3rd party.
2. The Chief Remote Pilot will review the client brief to ascertain:
   * Permissions required:
   * By reviewing airspace and maps in the *Office App* to determine if the proposed operation is within:
   * 3nm of a controlled aerodrome; or
   * the approach or departure path of an aerodrome, ALA or HLS; or
   * over the movement area of an aerodrome; or
   * within a restricted area;
   * By assessing the deliverables requirements to determine if the task requires operations:
   * above 400ft AGL; or
   * beyond visual line of sight (BVLOS); or
   * otherwise outside of the scope of the ReOC.
   * Equipment Required:
   * Are specific sensors required (e.g. infra-red, thermal imaging)?
   * Will more than one RPAS be required? E.g. multiple angles of an event;
   * Can the operation be completed with a smaller, lighter RPAS which may pose less risk in the event of an emergency or failure?
   * If the operation is in an area with likely movement by members of the public, will warning signs and/or temporary barriers be required to maintain a 30 meter zone around the operation?
   * How many aeronautical radios will be required?
3. Once the operational requirements have been assessed:
   * The client should be provided with a quote or estimate for completion of the operation;
   * The Chief Remote Pilot is responsible for gaining any required flight authorizations, permissions or area approvals from CASA.

### Flight Approval Procedure

All operations must be authorised by the Chief Remote Pilot. The Chief Remote Pilot may authorise a flight following receipt of a completed JSA and flight approval request. The flight approval request must contain at least the details contained on the APPENDIX 1 - FLIGHT AUTHORISATION FORM.

Flight approval requests should be submitted to the Chief Remote Pilot at least 24 hours prior to the intended operation.

On receipt of a Flight Approval Request, the Chief Remote Pilot will:

1. Review the submitted request for Flight Approval;
2. Request any further information from the submitting staff member, client and any relevant authorities;
3. Perform a Risk Assessment for the requested operation (if required);
4. Send notification of flight approval or denial to the submitting staff member via the *Office App*.

### Pre-Operation Checks

Prior to arrival on-site, the Remote Pilot in charge shall:

1. Review weather forecasts and warnings for the location.
2. Review NOTAMs for any potential hazards which may affect or prevent the operation, e.g.:
   * Other aircraft (manned or unmanned) operating in the area at low level;
   * Activation of temporary restricted areas;
   * Inactive radio towers or other air traffic services;
   * Air shows, kite flying, parachute jumps, etc.;
   * Military exercises;
   * Temporary erection of obstacles (e.g. cranes);
   * This can be completed using the airspace check function in the *Field App*.
3. Contact the client to ascertain if any of the operational assumptions (weather, traffic, people movements) have changed.
4. On arrival at the location, the Remote Pilot in charge must visually check for:
   * large or dark clouds likely to produce precipitation
   * evidence of strong or gusty wind (check trees, flags, leaves)
   * obstacles or hazards not previously identified or assessed
5. The RPA must not be operated if any of the following conditions are present or likely:
   * precipitation (e.g. rain, snow or sleet);
   * winds in excess of the manufacturer’s published limits for the RPA;
   * local air temperatures below -10oC or above 40oC or otherwise outside the RPAS manufacturer’s limits for the system;
   * operation of manned aircraft or kites in the vicinity.

### On-Site Pre-Operation Procedure

On arrival on-site, the Remote Pilot in Command shall conduct:

1. A site familiarization to identify any hazards, weather conditions, take-off and landing zones and potential emergency landing areas;
2. An on-site job-safety assessment (JSA) and risk assessment (if required);
3. A safety briefing for any crew, observers or other personnel involved or nearby;
4. A pre-flight inspection of each RPAS to be used in the operation;
5. A radio check to confirm the correct operation of all required radio equipment.

### Determination of Take-Off & Landing Zones

1. The Remote Pilot in Command must determine take-off and landing zones which are:
   * well clear of persons, trees, buildings, poles. power lines, vehicles, animals and other objects;
   * on firm, debris free ground or concrete;
   * as level as possible;
   * in a location which is unlikely to be accessed by vehicular, animal or pedestrian traffic at the expected time of take-off and landing.
2. A landing pad should be used where the take-off and landing zone is:
   * soft (e.g. sand or loose dirt);
   * covered by long grass, sand, dust or gravel;
   * uneven;
   * moist or muddy;
   * close to crew, observers or other persons (to highlight the likely landing location).
3. Crew, observers and other persons must be briefed on the location of the take-off and   
   landing zone/s.
4. Where required, signage must be placed to make people aware RPA operations are occurring.

### Crew & Observer Briefing Procedure

A briefing must be held prior to any operation requiring support crew and/or competent observers. The briefing must include at least:

* + operational goals;
  + hazards identified by the risk assessment and their controls;
  + hazards which spotters should be watching for (e.g. obstructions, aircraft, birds, people, weather conditions);
  + emergency response procedures and the location of the designated safe zone;
  + importance of not interfering with the Remote Pilot in Command;
  + importance of observers and spotters remaining in communication with the Remote Pilot in Command;
  + actions to be following in the event of an incident.

A Pre-Operational Briefing Checklist can be found at APPENDIX 2 – .

### Pre-Flight Inspection Procedure

RPAS must be inspected in accordance with the manufacturer’s requirements before flight.

In addition to the manufacturer requirements, the following checks must be carried out, as applicable:

* Charge level of all aircraft, controllers, radio and device (e.g. tablet) batteries;
* Controller condition and operation;
* RPAS shell condition (e.g. cracks, signs of fatigue);
* Propeller condition and installation (e.g. edge condition, cracks, foreign material, thread cleanliness, damage, correct installation);
* Electrical connectors on RPA and batteries (e.g. insulation condition, damage);
* Presence and correct installation of SD card(s);
* Gimbal and camera condition and operation.

If VHF radio is required for an operation then it must be checked for battery charge level, correct operation and frequency setting.

A pre-flight check must be completed immediately before each flight.

A generic pre-flight checklist is provided at APPENDIX 10 – GENERIC PRE-FLIGHT CHECKLIST for use where the manufacturer does not provide one.

Any issues found during the inspection must be recorded in the APPENDIX 7 – DEFECT AND MAINTENANCE LOG.

### Radio Procedures

The following procedures shall be used if aeronautical radio is required for the operation.

Aeronautical radios must only be operated by persons holding an appropriate aeronautical radio operator qualification (i.e. Aeronautical Radio Operator Certificate or Flight Radio Operator Licence).

* Radio calls should be brief, clear and use standardized terminology;
* Unnecessary calls must be avoided;
* Radio operators must ensure that the correct frequency is used: i.e. tower, approach or departures as advised by Air Traffic Services when operating within controlled airspace; CTAF, Multicom (126.7) or area frequency as applicable for uncontrolled areas.

Before Flight:

* Check battery level and service condition of the radio;
* Ensure volume is set appropriately given the ambient noise level and predictable noises such as the RPA, crew communications and environment noise;
* Ensure the correct frequency is selected for the area;
* Position reports and broadcasts must be made in accordance with the requirements of any applicable permission or approval.

During Flight:

If a position report is requested, the location of the RPA (rather than the location of the pilot-in-command) must be used.

In controlled airspace, any deviation from the flight plan or clearance must be communicated to ATS at the earliest opportunity.

End of Flight:

When operating under an airway’s clearance, the pilot-in-command must advise ATS when the operation is complete.

Communication Loss:

If communication with ATS is lost, then the remote pilot-in-command should follow the lost communications procedures established for the operation.

### Prior to Take-Off

Prior to launching the RPA, the following items must be completed:

1. The flight plan should be reviewed to ensure that it is clear of obstacles and hazards.
2. The RTH (Return-To-Home) settings of the RPAS must be checked and to ensure that they are appropriate for the operation.
   1. RTH altitude must be set high enough to clear any obstacles such as trees and towers;
   2. RTH altitude does not exceed altitude limits (i.e. 400ft AGL, airways clearance limit or upper limit of flight authorization / permissions / area approval;
   3. RTH action (e.g. auto-landing) will not cause a hazard to persons, property or the RPAS.

### Take-Off Procedure

Take-off should be performed in accordance with the current version of the RPAS manufacturer’s manual.

General Precautions:

1. Ensure the take-off zone is well clear of persons, animals, trees, poles, buildings or other objects which may come in to contact with the RPAS in the event of horizontal or vertical movement of the RPA;
2. Re-check wind conditions;
3. Always power on and ready any smartphones/tablets and radio controllers before powering on the aircraft;
4. Place the aircraft on the designated take-off zone (or landing pad) and ensure the aircraft is stable;
5. Ensure observers and crew are aware a take-off is imminent;
6. Start the motors, visually and audibly ensuring normal operation;
7. Make a final check of the surroundings for obstacles;
8. As soon as practicable after take-off confirm normal control operation.

### Automated Flight Procedure

Automated flight (flight controlled by software) may be required when performing mapping, surveying or scanning operations for a client.

Automated flight may only be performed under the following conditions:

1. The controlling app/software is tested, proven and has been approved by the Chief Remote Pilot;
2. The controlling app/software is operated by a competent person with demonstrated understanding of the app/software;
3. The Remote Pilot in Command retains the manual controller in his/her hands and is ready to assume manual control of the RPA in case of emergency;
4. The Remote Pilot in Command maintains VLOS with the RPA and monitors the telemetry throughout the flight;
5. Automated flight must only be conducted within VLOS and radio control range;
6. The automated flight complies with all other procedures detailed in this manual.

### Handover/Takeover Procedure

There may be operations where it is necessary for one pilot to hand over to another. This should be avoided where possible, however in cases where it is unavoidable, the following procedure shall be used:

1. Effort should be made to ensure the handover takes place at a time during the task where the RPA is clear of hazards, obstacles and not near persons;
2. The pilot in command shall always take the lead in communication;
3. The pilot in command shall indicate to the new pilot that he/she is ready for the new pilot to prepare for handover;
4. The new pilot shall stand next to the pilot in command. The pilot in command shall brief the new pilot on conditions, hazards, battery charge state and current location and orientation of the RPA;
5. The new pilot shall indicate he/she is ready for handover;
6. The pilot in command shall hover the RPA in place (multi-rotor) or place the aircraft in straight and level flight (fixed-wing) with enough altitude to ensure recovery is possible if there is any complication;
7. The controller shall be passed from the pilot in command to the new pilot taking care to avoid bumping the controls.
8. The new pilot shall review the telemetry and confirm the location and orientation of the RPA before continuing the operation.

### Aircraft Post-Flight Inspection Procedure

Post flight, the pilot-in-command must follow any inspection requirements provided by the RPAS manufacturer.

In addition to any manufacturer recommendations, the following checks must be carried out:

* Charge level of all aircraft and controller batteries (is drain level normal for flight time and conditions);
* Controller condition and operation;
* RPAS shell condition (e.g. cracks, signs of fatigue);
* Propeller condition (e.g. edge condition, cracks, foreign material, thread cleanliness and damage);
* Electrical connectors on RPA and batteries (e.g. insulation condition, damage);
* Presence and correct installation of SD card(s);
* Gimbal and camera condition and operation;
* Excessive or abnormal heat of the aircraft, components or battery.

The post-flight checks must be completed immediately after each flight.

A generic post-flight checklist is provided at APPENDIX 11 – GENERIC POST FLIGHT CHECKLIST for use where the manufacturer does not provide one.

Any issues found during the inspection must be recorded in the APPENDIX 7 – DEFECT AND MAINTENANCE LOG.

### Minimum Experience Requirements

The remote pilot must have at least 2 hours flying experience on the RPAS type before conducting commercial operations.

Pilot experience should be verified through flight logs and/or training logs. If necessary, refer to the pilot’s previous employer and/or approved trainer.

### Recent Experience Requirements

Remote pilots must have completed at least 3 launches and recoveries in the previous 3 months before conducting a commercial operation.

Recent experience should be verified through flight logs and/or training logs. If necessary, refer to the pilot’s previous employer and/or approved trainer.

### Defect and Maintenance Log

When a remote pilot or crew become aware of any defect or damage to an RPAS, the details must be recorded in the *Office App -*  see APPENDIX 7 – DEFECT AND MAINTENANCE LOG for details.

Defects or damage must also be reported to the Maintenance Controller.

### Test Flights

Test flights will be conducted after any maintenance operation on flight control surfaces or associated hinges or attachment points. Flight tests will also be conducted after any firmware or software updates. Contact the Maintenance Controller if there is any doubt as to whether a test flight is required.

#### Test Flight Requirements

Test flights must be conducted in accordance with the following requirements:

* The test flight location should be a controlled environment, clear of obstacles and suitable for landing quickly in the event of poor dynamics or control difficulty.
* The test flight will consist of a manual launch, a short flight utilising both manual and automated flight, hover and recovery within the test area.
* The test flight will be conducted by a properly licenced, qualified and experienced operator.

### Battery Standards

All batteries used in company RPA will be of the type and/or grade specified in the manufacturer’s operator’s manual.

### Battery Management

Remote Pilots shall be responsible for managing batteries in accordance with the ‘Flight Battery Safety Guidelines’ as issued by the manufacturer for each RPAS type. Remote Pilots should also consider the following in the management of batteries:

* Only ‘Genuine’ batteries approved or produced by the manufacturer are permitted for use.
* Only ‘Genuine’ chargers/adaptors shall be used to charge batteries.
* Batteries displaying noticeable damage, such as being swollen or cracked, shall be considered unserviceable and should be disposed of appropriately.
* Batteries must be kept within the approved operating temperatures during flight and charging.
* Batteries must be stored dry and away from water and other liquids.
* Batteries must not be charged within proximity of combustible liquids or solids.

#### Airline Battery Transport Requirements

Airlines are permitted to set their own restrictions the number and capacity of batteries that are carried on board their aircraft. Their limits must be at least as stringent as the requirements of the IATA Dangerous Goods Regulations. In general, spare batteries may be carried onboard airline aircraft in accordance with the following restrictions.

* **Under 100Wh:** Batteries under 100Wh are permitted as carry-on baggage and must be packaged to prevent short-circuiting.
* **Between 101-160Wh:** Batteries are permitted as carry-on baggage only subject to operator approval and packaged to prevent short-circuiting. A maximum of two (2) spare batteries are allowed.
* **Above 160Wh:** Carriage of these batteries is not permitted.

## Emergency Procedures

### Loss of Control Procedures

A Loss of Control event can be triggered by several different causes, each requiring differing responses depending on the origin of the issue. As such, the Remote Pilot must be knowledgeable in the systems of the RPAS, how they interact with other systems and how failures in each component will affect RPAS functionality. Just as the causes for a Loss of Control event can differ, so can the consequences.

#### Weak/Lost Controller Signal

A Loss of Control event can be triggered by loss of communication between the Controller and the RPAS. For these events, ‘Return to Home’ and ‘Auto-land’ functions should be pre-set to intervene and bring the RPAS back to the ‘Home Point’.

To ensure these protections are in place, the Remote Pilot shall:

* Complete Pre-Flight Checks
* Calibrate the compass prior to the first flight of the day
* Set the ‘Home Point’ prior to flight
* Set the ‘Failsafe action’ prior to flight
* Ensure Antennas are correctly set, and Line of Sight is maintained

The Remote Pilot must consider the potential for electrical disturbances in the area of operation which might interfere with the transmission of command and control signals.

#### Lift Production Failure

Failure of a lift-producing component of an RPA will result in a rapid and usually dramatic loss of control. If the craft cannot be safely landed, the Remote Pilot should attempt to manoeuvre the RPA into a clear area and shut down the motor/s prior to impact. If time permits, all persons in the vicinity should be warned of the impending impact.

The Remote Pilot shall implement increased risk mitigation strategies to ensure a reasonable level of safety to account for the possibility of a lift-producing component fails.

### Post-Crash Procedures

In the event of a crash, the Remote Pilot shall execute the following procedures:

1. Assess the situation.
2. Identify injuries to persons.
3. Arrange for any assistance and/or emergency services to attend (as necessary).
4. Take reasonable steps to prevent further injury to people or damage to property.
5. Preserve the site by establishing an exclusion zone around the crash site.
6. If possible, remove battery and inspect for any damage or swelling. If a battery is damaged there is an increased likelihood of it catching fire or exploding and it should be moved to a ‘safe zone’, away from persons, the RPA and any hazardous or dangerous goods.
7. Damaged batteries should be placed in a fire-resistant container and monitored for a minimum of 15 minutes.
8. Report incident to Chief Remote Pilot.
9. Conduct Post-Flight Checks.
10. Pack RPAS and RPAS components for travel.

Throughout the above procedures, the primary focus shall be the safety of persons and the prevention of further injury or damage to property.

### Lost Aircraft Procedures

If the position of an RPA becomes unknown during flight the Remote Pilot shall execute the following procedure:

1. Attempt to trigger a ‘Return to Home’ using the appropriate controller action/s;
2. If telemetry with the aircraft is not recovered within 5 minutes, command a motor shutdown using appropriate controller actions.
3. If operating in the vicinity of an aerodrome, ALA or HLS make a VHF radio broadcast advising traffic of the last known altitude, direction and speed of the RPA and its estimated remaining endurance.
4. If operating within or in proximity to controlled airspace advise ATS of the situation.

### Emergency Contact and Reporting Requirements

In the event of an accident or incident, the Chief Remote Pilot must be contacted as soon as reasonably practicable once the scene has been secured and appropriate measures have been implemented to prevent further injury or damage.

The Chief Remote Pilot will provide further instructions as required.

Remote Pilots and Crew should refer all enquiries from news or media personnel to the Chief Remote Pilot.

All accidents and serious incidents must be reported to the Australian Transport Safety Bureau as soon as reasonably practicable. In the first instance the occurrence should be reported by telephone to 1800 011 034. A follow-up written report will be required within 72 hours.

### Night VLOS Emergencies

#### Failure of RPA Orientation Lights

If the RPA orientation lights fail, the RP is to stop the operation and initiate a return to home.

The RP is to record the defect in the RPA’s Maintenance Log.

Future night operations using the RPA must not be attempted until the Maintenance Controller has investigated and cleared the defect.

#### Failure of Landing Area Lights

If the landing area lights fail, the RP is to terminate the operation and manoeuvre the RPA to a safe, lit landing area.

RP are reminded that automatic landings in unlit areas cannot be completed due to the disfunction of the visual height sensing system/s.

Vehicle headlights can be used to provide an alternate source landing area illumination.

#### Temporary Incapacitation of the Remote Pilot

Incapacitation at night is often associated with night blindness caused by improper positioning of lights and / or crew relative to the operating area. Pilots should attempt to position themselves with their back to the primary lighting source when looking at the RPA in flight.

If the RP becomes incapacitated, a Return-To-Home should be initiated.

If another pilot is available to assume control, then control of the RPA should be handed over so that they can manage the Return to Home.

Prior to recommencing operations following an incapacitation event the setup of the job must be reviewed with emphasis on factors which may have contributed to the incapacitation.

#### GPS Loss

If GPS lock is lost the RPA will not hold position on its own and will drift with the wind. The pilot should yaw the RPA so that the control sticks act in a command sense ( i.e. left stick makes the RPA move left). The RPA should then be manoeuvred towards a safe landing area and landed as soon as possible.

## Specialised Operating Procedures

### Operations within 3NM of Uncontrolled Aerodromes

The relevant air traffic service frequency or frequencies, or the relevant CTAF (as applicable) must be monitored for aircraft traffic 15 minutes before the first launch and then continuously for the duration of the operation of the RPA.

Unless otherwise directed, when operating within Class G airspace, the location of the RPA must be transmitted using call sign ‘Unmanned RPA’ on the appropriate air traffic frequency 15 minutes before the first launch and then at 15-minute intervals for the duration of the operation of the RPA.

The remote pilot in command must ensure that the RPA is not flown, within 500 feet vertically and within 1500 metres horizontally of any aircraft.

The operator must ensure that in the period from 15 minutes before the RPA is launched to the time that the RPA lands, at least one person who is trained as an observer in accordance with the operator’s Operations Manual:

* is in a location that enables that person to assist with traffic avoidance; and
* has continuous two-way communication with the remote pilot of the RPA

The remote pilot in command must ensure that the RPA is equipped and operated with an active fail-safe mode that will ensure that, in the event of a data-link loss with the RPA or any loss of control of the RPA, the RPA will:

* adjust altitude to the minimum safe level to provide obstacle clearance and minimum potential for collision with other aircraft, in any case not above 400 feet AGL;
* transit to a predefined safe landing or flight termination area; and
* land or otherwise terminate the flight.

### Operations within Control Zones (CTR)

Operations within a control zone are permitted without requiring additional approval where the operation is conducted clear of the approach and departure paths, outside of 3NM from the aerodrome boundary and below 400 feet AGL.

Operations within 3NM of the aerodrome boundary or within the approach and departure path require specific approval from CASA.

Whilst operating within a control zone, a transponder fitted to the RPA must NOT be activated unless specifically requested to do so by air traffic control.

A radio listening watch must be maintained on the appropriate frequency at least 15 minutes prior to, and throughout all operations within a control zone. Radio broadcasts must NOT be made unless specifically requested by air traffic control or in the case of an emergency which might impact on manned aircraft traffic.

### Operations outside of day VMC conditions – Specifically at night

Unless otherwise permitted by a separate instrument of approval from CASA, all operations at night must only be undertaken in class G airspace below 400ft AGL. The RPA must always remain within visual line of sight.

Operations at night must only be conducted by the chief remote pilot or authorised remote pilots named below who have completed training and testing in the operation of an RPA at night and who are current on type. Information on training and testing can be found in the Operations Manual.

A register of pilots approved to conduct night operations can be found at APPENDIX 12 – NIGHT OPERATION APPROVED PILOTS.

Operations at night must only be conducted in conditions that would otherwise be considered VMC. Assessment of any operations should include a detailed review of the forecasted weather conditions on the day to ensure VMC requirements can be met. Additionally, an onsite assessment must be undertaken by the chief remote pilot/remote pilot to ensure the operation will be within VMC. Note: cloud base heights can be difficult to discern at night and can drop rapidly, so extreme caution should be taken where operations are conducted where low cloud base is anticipated.

Operations at night must only be conducted where a Job Safety Assessment has been completed and approved by the Chief Remote Pilot. All Job Safety Assessments must include an onsite recce which has been conducted in day VMC. This recce should be used to identify any obstacles or hazards that would not be apparent to a pilot flying at night such as power lines or building antennas etc.

All take-off and landing areas must be illuminated to near daylight conditions to assist the pilot in safe take-off and landing.

The RPA must be fitted with the following equipment; all equipment noted below must be checked as part of any pre-flight procedure and should be included within the RPA maintenance program.

* Serviceable GPS for the purpose of providing accurate data to the GPS hold and GPS return to home function.
* Telemetry data which indicates a positive satellite lock has been achieved by the RPA. Where the manufacturer does not specify the number of satellites to gain lock then the aircraft shall not fly with less than seven (7) satellites positively acquired.
* Telemetry data which indicates to a base station which is co-located with the pilot in command the RPA’s position in three dimensional airspace, that is to say distance and bearing from the operator and a height above ground level. Note: Where an RPA uses Above Mean Sea Level (AMSL) data then the operator must have a means to readily convert AMSL data to Above Ground Level (AGL) data.
* Enough lighting to ensure positive identification of the RPA once in flight, and to ensure that the orientation and direction of the aircraft can be determined visually by the Pilot in Command. This might be high output coloured LEDs fitted to the arms/wing tips of the RPA.

During the JSA process, consideration must be given to rain or thunderstorms that are observed or reported within 5km of the operational location.

As part of the JSA process the Chief Remote Pilot must consider the safety benefit associated with having at least one person who is trained as an observer in accordance with the operator’s Operations Manual:

* Is in a location that enables that person to assist with traffic avoidance; and
* Has continuous two-way communication with the remote pilot of the RPA

The Chief Remote Pilot must ensure that the RPA:

* is not flown, within 500 feet vertically and within 1500 metres horizontally of any airborne manned aircraft;
* is equipped and operated with an active fail-safe mode that will ensure that, in the event of a data-link loss with the RPA or any loss of control of the RPA, the RPA will:
  + Adjust altitude to the minimum safe level to provide obstacle clearance and minimum potential for collision with other aircraft, in any case not above 400 feet AGL;
  + Transit to a predefined safe landing or flight termination area; and
  + Land or otherwise terminate the flight.

### Operations between 30m and 15m - Non-company personnel

Any operation within 30 to 15m of a person must be conducted in accordance with the following general conditions:

* The RPA used for the operation will be a very small or small RPA, and the RPA will be properly maintained and serviceable.
* A detailed risk assessment will be conducted for each operation, considering specifically the increased risk of operations near people.
* Consent must be obtained from all non-operating personnel affected by the operation of the RPA closer than 30m to them.
* Operations closer than 15m of non-operating personnel are NOT permitted.
* The Controller of the RPA must be properly trained in the management of the risk and must be current on the RPA type.
* A Safety Crew must be available and used to assist the controller to adhere to the conditions contained in the risk assessment.

Each operation will have its own specific risks and mitigation strategies, and these must be considered during the risk assessment process. The following subsections amplify the conditions above in the endeavour to identify and mitigate risk.

#### RPA Requirements

* The operator should use the smallest drone suitable for the task, taking into consideration the complexity of the operation and expertise of the Controller.
* The RPA must be properly maintained and fully serviceable.
* The RPA should commence the flying operation with a full battery.
* GPS hold must be operational.
* A pre-flight survey of the area should be conducted to determine any possible GPS shadows and obstacle-induced turbulence.
* The return to home (RTH) must be set appropriately to account for the operating environment and clear path must be available to the Home Point. Should a climb to altitude not be available, the RTH should be set to hover or land.
* Propeller guards must be fitted to the RPA during the operation.
* The RPA must be flown with all obstacle sensors functional and operating
* The RPA must be flown in GPS mode or using an appropriate Intelligent Flight Mode
* The flight control “braking” action must be active.

#### Risk Assessment and Minimisation

The Chief Remote Pilot must, in addition to all other normal operational requirements, perform a detailed risk assessment that specifically considers the increased risk of operations near people.

* The RPA should be flown at the slowest speed possible to accomplish the task. For a stationary operation, the RPA speed should not be faster than a walking pace.
* When operating close to a large group of people, care should be taken to consider the whole group as a unit, as well as individual people who may be “outliers” of the group and inadvertently pose additional risk to the operation.
* Should the non-operating personnel be in motion, the controller must ensure that the RPA and the person remain more than 15m apart.
* The non-operating personnel must be briefed on the operation and the rules pertaining to it. They must be made aware of the risks associated with the close operation of the RPA and must always be briefed to monitor the position of the RPA.
* A Safety Crew comprising of at least one person must be available to assist the controller in maintaining safe separation standards.
* An assessment of the operating environment must include the position of the sun (reflections, blinding of the controller, loss of visual contact with the drone) and the effect of wind (strength, gusts, change in direction, shear, turbulence).
* If artificial lighting is required, an assessment must be made of the potential for loss of visual contact with the RPA and associated reduction in situational awareness.

#### Consent of third parties

Any operation within 30 to 15m of a person(s) requires the individual consent of each person. A 3rd person or body corporate cannot give consent on behalf of an individual.

When seeking consent, all individuals must be informed of the CASA regulations relating to the operation, and any additional risks identified by the operator that may be attributed to the operation of the RPA within 30m of a person. Each person is to be provided a written briefing and is required to sign an APPENDIX 9 – NON-COMPANY PERSONNEL CONSENT form.

Gaining written consent will provide evidence that the operator acted within the intent of the regulation if an accident or incident were to occur.

#### The Controller

* The Controller must be competent in the operation of the RPA near personnel and obstacles.
* The Chief Remote Pilot is responsible for determining of the competency of the Controller, and, if necessary, suppling appropriate training in the operation of the RPA near people.
* The Controller must be rated and competent to operate the specific RPA.
* The Controller must be adequately rested, and both physiologically and psychologically fit to complete the operation.
* The Controller must obtain current weather information prior to the operation and monitor the environment carefully for any changes to the weather, particularly changing wind conditions.
* The Controller must plan the operation carefully, especially the position of the RPA relative to the sun and obstacles, and the position of the Controller and RPA relative to the non-operating personnel. The Controller must always have an unobstructed view of the RPA and the non-operating personnel.
* Prior to the operation, the Controller must review the emergency procedures relevant to the loss of control in flight (e.g. fly-away or loss of GPS).

#### Safety Crew

* A Safety Crew of at least one person must be used during operations close to people.
* The Safety Crew must be briefed on their duties and responsibilities, as well as any specific communication techniques and phrases that are to be used.
* The Safety Crew must assist the Controller in maintaining separation from personnel and obstacles during the operation and ensure the minimisation of distraction.

The **Risk Assessment Matrix** and **Risk Control Worksheet** should be consulted once the risks to an operation have been identified. The Chief Remote Pilot and Controller must then implement enough strategies to mitigate the risks.

If the risk cannot be mitigated to a value that meets an acceptable level of safety or it is not possible to comply with a condition within the operations manual and any other instrument issued by CASA the task may not proceed.

The Chief Remote Pilot must also consider the overall risk where multiple risk factors have a high score.

# RPAS SYSTEMS PROCEDURES

## <DRONE TYPE>

### Pre-flight & Post-flight Check

Refer to the Manufacturers User Manual

### Maintenance Schedule

Refer to Manufacturer’s User Manual or any pre-flight or post-flight checklists the organisation has developed.

### RPAS Maintenance & Operational Manual(s)

Printed copies of RPAS manuals are considered uncontrolled.

The latest version of the RPA manuals should always be obtained from the manufacturer’s website.

|  |  |
| --- | --- |
| **Title** | **Web link** |
| User Manual |  |
| Quick Start Guide |  |
| Online Tutorials |  |

### Test Flights

A test flight of the RPAS must be carried out in accordance with the requirements of 1.1.18 Test Flights following any maintenance.

### Battery Management

Only batteries that are approved by the manufacturer and meet the requirements of 1.1.19 Battery Standards may be used.

Batteries shall be managed in accordance with the requirements of 1.1.20 Battery Management.

# APPENDIX 1 - FLIGHT AUTHORISATION FORM

![Graphical user interface, application, website

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# APPENDIX 2 – PRE-OPERATIONAL BRIEFING

The following briefing is to be given by the Remote Pilot to all persons involved in the RPAS operation. Emergency contact numbers added to the mission plan are available via the *Field App.*

|  |  |
| --- | --- |
| **Action** | **✓** |
| Overview of the mission as planned |  |
| Any specific tasking for crew member (e.g. person tasked with observing for people straying into the area of operation) |  |
| Possible issues and identification of hazards associated with the mission including planned action |  |
| How the remote pilot will communicate any problem and/or subsequent action |  |
| Identification of alternate landing area |  |
| Identification of a safe zone |  |
| Action following an incident |  |
| Notes/comments specific to mission |  |

Graphical user interface, application

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*Example of pre-operational briefing in the Field App*

# APPENDIX 3 – POLICY AND PROCEDURE TRAINING SYLLABUS

Internal Training includes overview and assessment of knowledge on the following manuals and company documents:

* Operations Manual
* Procedures Library (SOPs and Non-SOPs)
* Conduct of Job Safety Assessments (JSA) and Risk Management
* Use of FlyFreely software in support of all Remote Pilot functions

# APPENDIX 4 – RPAS TYPE TRAINING SYLLABUS

Ground / Theory

* RPA User Manuals and Quick Reference Guides
* Description of RPAS and components
* Handling of RPAS and transportation
* Handling and charging of LiPo batteries
* Assembly/disassembly of the system including camera
* Detailed explanations on the use of the transmitter and operating frequencies, limitations
* Flight controls, sound and light signals
* Manual and reversionary modes
* Pre-flight inspection
* Problem solving, fault analysis
* Pre and post flight procedures
* Crew management and responsibilities

Flight Exercises

The following manoeuvres will be assessed to determine the Remote Pilot’s proficiency in operating RPAs listed in Schedule 1 of the Operations Manual:

* Range check
* Take-off and landing
* Practical flight exercises (normal automatic control)
* Practical flight exercises (backup manual control)
* Automatic safety features
* Camera operation
* Non-normal procedures
* Safety

APPENDIX 5 – JOB SAFETY ASSESSMENT

A JSA is part of the Mission Workflow in the *Office App*. An example of a JSA that has been completed in the *Office App* is shown below.

Graphical user interface, text, application, email

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APPENDIX 6 – RPAS TIME IN SERVICE LOG (Part 2 of RPAS Technical Log)

The RPAS Time In Service Log can be found on the *Office App* RPA Dashboard. Each individual RPA Time in Service Log can be found by clicking on the RPA and navigating to the Flight and Maintenance History tab. An example is shown on the following page.

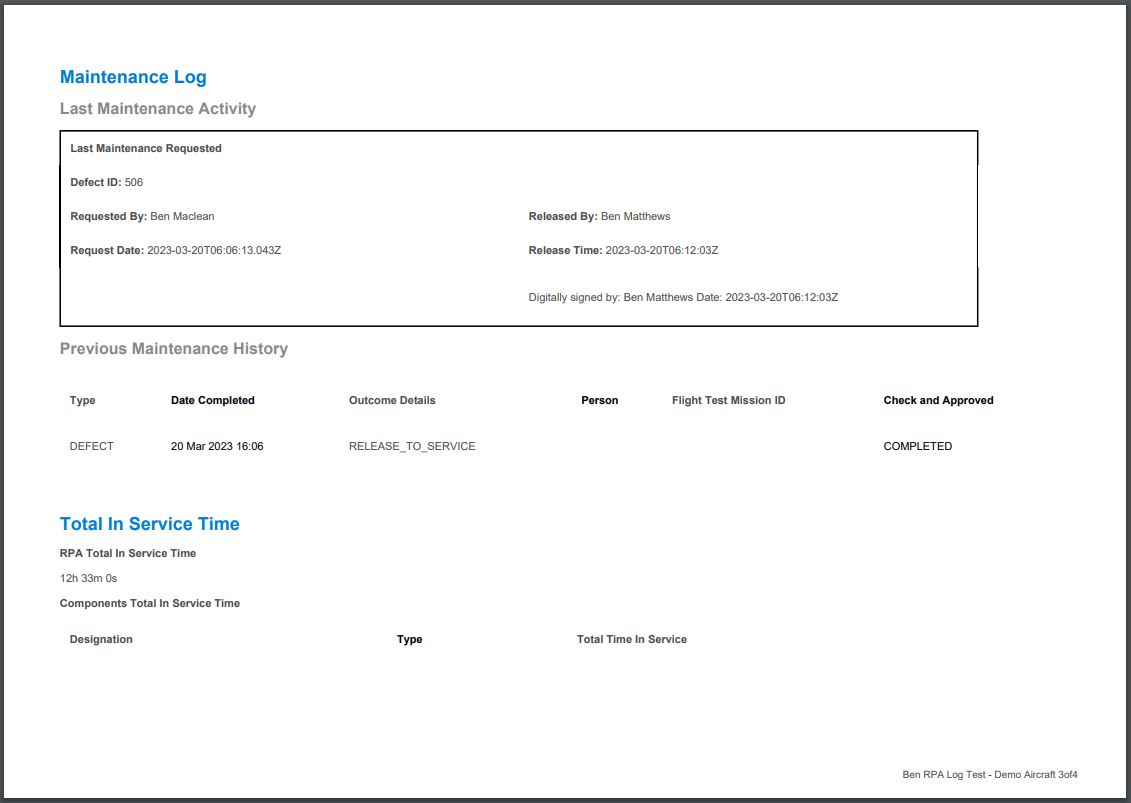
![Graphical user interface

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APPENDIX 7 – DEFECT AND MAINTENANCE LOG (Part 1 of RPAS Technical Log)

The Defect and Maintenance Log can be found on the Office App Maintenance Dashboard.

More detail of the Defect or Maintenance entry can be found by clicking on the individual item on the Maintenance Widget. A new request can be generated by clicking the + symbol on the top right of the Maintenance Widget.



APPENDIX 8 – NIGHT VLOS TRAINING SYLLABUS

## N-VLOS-DS: Night visual line of sight - Description of training

1 Unit description

This unit describes the skills and knowledge required to operate an RPA at night time.

2 Elements and performance criteria

2.1 Pre-flight preparation

The remote pilot confirms that:

1. the RPA meets the equipment requirements for an N-VLOS flight.
2. a risk assessment is completed taking into account night visual conditions.

2.2 Night Operations

1. Perform all normal manoeuvres under N-VLOS conditions using either manual control or an AFMS.
2. Orient and navigate the RPA efficiently and safely at a distance.
3. Maintain an effective lookout for other aircraft and take appropriate action to maintain separation and prevent conflict.

2.3 Night Landing

1. Lands the RPA safely and without damage within N-VLOS tolerances.

3 Range of variables

1. Various payloads and RPA configurations
2. Operations both in dark conditions and under artificial illumination
3. Various weather conditions

4 Underpinning knowledge of the following:

1. RPA equipment requirements
2. Human performance considerations
3. Night operation considerations
4. Knowledge of rules and considerations under artificial illumination
5. N-VLOS operational requirements for operations at a controlled or non-controlled aerodrome (if required)

## N-VLOS-P: Night visual line of sight - Practical

1. Flight test requirements

1.1 A person operating under a night visual line of sight (N-VLOS) approval must demonstrate his or her knowledge of N-VLOS flight requirements as set out in clause 2 and competency, in the units of competency mentioned in clause 3, by performing manoeuvres with an aircraft in the category he or she wishes to operate, within the accuracy/tolerances specified clause 3.

1.2 For sub clause 1.1, a sustained deviation outside the applicable flight tolerance is not permitted.

1.3 For Schedule 3, if sufficient cross-wind conditions do not exist at the time of the flight test then, providing the examiner is satisfied the applicant’s achievement records indicate that competency has been achieved during training, the element may be excluded from the flight test.

1.4 Note that flight tests elements for VLOS approval may be combined into a single test or conducted over a number of flights.

1. Knowledge requirements
   * 1. The applicant must demonstrate his or his knowledge of the privileges and limitations of the rating and of the following topics to the chief remote pilot:
        1. RPA requirements for night flight
        2. Additional considerations for RPA flight at night (compared to a flight during the day)
        3. Applicable rules and considerations for flight at night under bright lights
        4. Knows the definition of ‘night’ for aviation purposes.
        5. Describe the considerations for carrying out an N-VLOS flight at a controlled or non-controlled aerodrome (if applicable)
        6. Understands some of the visual illusions and human performance limitations that may eventuate with N-VLOS flight.

Practical flight standards

* + - 1. Ensures the aircraft is fit to fly and equipped for night flight
      2. Competently conducts all normal manoeuvres at night competently manually or with AFCS as applicable
      3. Under manual or automated control is able to orient and navigate the aircraft efficiently and safely at a distance from the control station
      4. Maintains an effective look-out for other aircraft and takes appropriate action to maintain separation and prevent conflict.

## N-VLOS-T: Night visual line of sight - Theory

2 Flight at night Theory test

2.1 Enumerate the additional considerations needed to operate and RPA during an N-VLOS flight (compared to a flight during the day) under the following conditions:

1. Under bright lights
2. In an otherwise dark area.

2.2 Define ‘night’ for aviation purposes.

2.3 Describe the aircraft equipment requirements for an N-VLOS.

2.4 Describe the considerations for carrying out an N-VLOS flight at a non-controlled aerodrome.

2.5 Describe the additional considerations for coping with equipment failures at night.

3 Human Performance

3.1 Explain the relevant human performance and physiological limitations for the conduct of RPAS operations at night.

3.1.1 Describe dark adaption of the eye and how long the eye takes to fully adapt to night conditions.

3.1.2 Describe the why lights have a red filter during night operations.

4 Risk Assessment – Night Operations

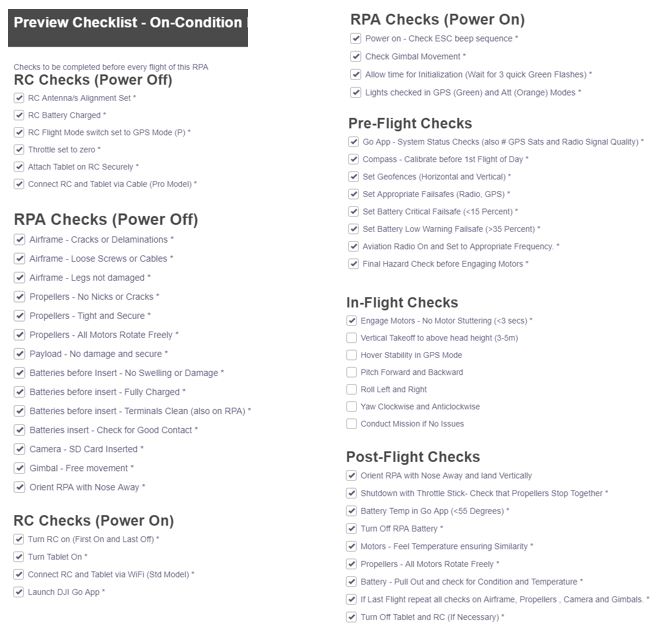
4.1 Describe and list any special precautions a remote pilot might take for a night operation.

APPENDIX 9 – NON-COMPANY PERSONNEL CONSENT

| **Consent For Operation Near Non-Company Personnel** | | |
| --- | --- | --- |
| Regulation Relating to this Operation (*CASR 1998*)  “101.245 Operation near people   1. Subject to subregulations (2) and (3), a person must not operate an RPA within 30 metres of a person (the ***second person***) who is not directly associated with the operation of the RPA.   Penalty: 10 penalty units.  (1A) An offence against subregulation (1) is an offence of strict liability.  **Note**: For ***strict liability***, see section 6.1 of the Criminal Code.   1. Subregulation (1) does not apply if the second person is standing behind the RPA while the RPA is taking off. 2. Subregulation (1) does not apply if: 3. the RPA is a very small RPA, small RPA or medium RPA; and 4. the second person has consented to the RPA operating within 30 m of him or her; and 5. the RPA is operated no closer than 15 m of him or her. 6. Subregulation (1) does not apply if: 7. the RPA is an airship; and 8. the airship approaches no closer to the second person than 10 m horizontally and 30 ft vertically. 9. Subregulation (1) does not apply if the person holds an approval under regulation 101.029 for the purposes of this subregulation.” | | |
| I agree that I understand the above regulations surrounding the operation of an RPA within 30m of a person. The RPA operator has explained the risks associated with the operation to me.  I hereby provide my consent for an RPA to be operated within 30m but no closer than 15m to myself. | | |
| Full Name | Signature | Date |
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APPENDIX 10 – GENERIC PRE-FLIGHT CHECKLIST

Standard electronic On-Condition Checklists can be found in the Office App and Field Apps. An example of typical checklist is shown below.



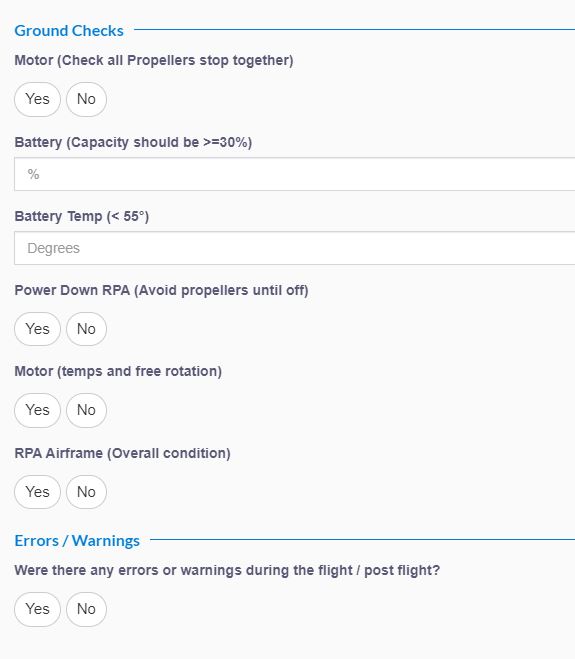
Standard Hardcopy On-Condition Checklists can also be used and an example is shown below.

Table

Description automatically generated

APPENDIX 11 – GENERIC POST FLIGHT CHECKLIST

Standard electronic On-Condition Checklists can be found in the Office App and Field Apps. An example of typical checklist is shown below.



APPENDIX 12 – NIGHT OPERATION APPROVED PILOTS

| **Remote Pilots Authorised for Night Operations** | | | | |
| --- | --- | --- | --- | --- |
| Remote Pilot Name | Remote Pilot ARN | Training Completed Date | Next Training Due | Authorised By (Sign) |
|  |  |  |  |  |
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APPENDIX 13 – INCIDENT REPORT FORM

|  |  |  |
| --- | --- | --- |
| **Operation Details** | | |
| Date: | Location: | RPAS System: |
| Pilot operating RPAs System: | Damaged Equipment: | |
| Incident Type:  □ Crash – Systems Error  □ Crash – Pilot Error | | □ Crash – External Factors  □ Aircraft Proximity Event  □ Other: |
| Injuries or Fatalities?  □ Yes (Debrief CRP)  □ No | | Damage to Property (Other than own)  □ Yes (Debrief CRP)  □ No |
| Description of Event/Comment: (Remember to attach any supporting evidence with this form) | | |
| Learning Outcomes (what will you do to prevent an incident of this nature again) | | |

|  |  |  |
| --- | --- | --- |
| **Declaration:** | | |
| I declare that the information provided by me on the above form is true and correct to the best of my knowledge and belief. | | |
| Print Name: | Signature: | Date: |

|  |  |  |  |
| --- | --- | --- | --- |
| **Reviewed and Signed:** | | | |
| Comments: | | | |
| Operator: | Signature: | Date: |  |

APPENDIX 14 – INTERNAL TRAINING FOR SENIOR REMOTE PILOTS

When the Chief Remote Pilot (CRP) is absent for an extended period (e.g. on leave) they can delegate some of their duties to an appropriately qualified individual. The CRP will also nominate a person to act as a contact for CASA.

The person to whom operational duties are delegated will be in charge of ensuring that operations are conducted in compliance with the Civil Aviation Safety Regulations. In practice, this will include the following tasks:

* Oversight and approval of all missions planned to be conducted under the *[Company Name]* ReOC (for the categories listed on their RePL).
* Apply for approvals and permissions to facilitate operations (as required).
* Monitor and maintain operational standards and supervise RP(s) who work under the authority of the ReOC.

Where the Chief Remote Pilot is also the Maintenance Controller, the following duties can also be delegated:

* Control all RPAS maintenance, either scheduled or unscheduled
* Maintain a record of RPAS defects and any serviceability
* Ensure maintenance activities are conducted in accordance with the procedures detailed in the  
  relevant RPAS section of the RPAS Operations Procedures (Library)

The person temporarily responsible for these duties will receive any required training from the CRP prior to their absence. This training could include:

* Mission assessment and approval procedures
* Maintenance Control procedures
* Obtaining mission specific approvals

During the CRP’s absence, a log of any issues should be kept and any outstanding issues will be handed over to the CRP on their return.

Table List of Approved Senior Remote Pilots

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of SRP | ARN | Date of Approval | Date of Review | CRP Signature |
|  |  |  |  |  |
|  |  |  |  |  |