

# Aviation Our Requirements

## Why is this important?

Aviation-related events represent some of the largest material risks to the safety of our people.

We move a significant number of our workforce using contracted aircraft operators, whether it is to and from our mine sites by large fixed-wing aircraft, using helicopters to our offshore oil and gas platforms or other role-specific operations used to support our activities.

We have set aviation safety expectations, technical requirements and a common set of critical controls to provide a minimum control framework for managing aviation risks.

We also use remotely piloted aircraft systems (RPAS) throughout our business for tasks of varying complexity, including flight beyond visual line of sight. We have set operational, technical and safety critical controls to manage the risks of RPAS activities at our sites.

## Who does this apply to?

- Anyone involved in contracted or procured aviation operations including contract owners, airfield, logistics and supply personnel.
- Anyone accountable for aviation operations.
- Anyone involved in the operation or contracting of RPAS.
- Anyone accountable for RPAS activities.

*Please note: Internal approval thresholds are in line with the level of risk.*

*This document has been prepared for external publication and may re-state or omit elements of the internal version for clarity or brevity.*

## Aviation

### When aviation operations are being contracted for, or operated exclusively on behalf of, BHP:

- Prepare an aviation management procedure that includes the requirements in [Appendix 1](#) and get approval before commencing the activity.
- Apply the approved aviation management procedure and review it annually for completeness and accuracy.
- Get approval for variations to the Flight Safety Foundation [Basic Aviation Risk Standard](#).
- Review technical schedules to aviation contracts or aircraft purchases where the total forecast spend is greater than US\$250,000 with the Head of Aviation, Group Health, Safety and Environment (HSE), before issuing the tender.
- Verify the aircraft is fitted with dual controls and is operated by two qualified pilots when carrying passengers.

### Before employees travel on charter aircraft contracted by third-party entities:

- Get approval for the aircraft operator.

### When an aviation-related material risk is identified:

- Implement the following critical controls:
  - Personnel: pilots meet all licence and experience requirements and are fit for work.
  - Aircraft: appropriate for the activity and suitably equipped.
  - Fuel: acceptable quality and quantity for the activity.
  - Weather monitoring and forecasting: appropriate for the activity and operating environment.
  - Infrastructure: acceptable design and operating conditions for take-off and landing.
- Get endorsement for the aviation material risk assessment.

## Remotely Piloted Aircraft Systems (RPAS)

### When RPAS are being used by, for, or operated exclusively on behalf of, BHP:

- Prepare an RPAS management procedure that includes the requirements in [Appendix 2](#) and get approval before commencing the activity.
- Apply the approved RPAS management procedure and review it annually for completeness and accuracy.
- Get approval for variations to the Flight Safety Foundation [RPAS Standard](#).

### When an RPAS-related material risk is identified:

- Implement the following critical controls:
  - Personnel: Remote pilots (RPs) meet all licence and experience requirements and are fit for work.
  - Remotely Piloted Aircraft (RPA): appropriate for the activity and suitably maintained.
  - Power source: acceptable quality and quantity for the activity.
  - Weather and visibility: acceptable and meet minimum requirements for the activity.
  - Infrastructure: acceptable launch and recovery areas and emergency landing sites for the activity.

## Appendix 1 Aviation management procedure requirements

Requirement	Explanation
<b>Designate the individual with single point of accountability for aviation operations</b>	Nominate an internal BHP representative.
<b>Designate the individual accountable for providing specialist aviation input and communication of issues associated with aviation operations</b>	<ul style="list-style-type: none"> <li>Name and contact details of an approved competent aviation specialist.</li> <li>Information about how advice from the competent aviation specialist will be incorporated into aviation operations and communicated with the Head of Aviation, Group HSE.</li> <li>Include frequency and scope of formal on-site operational reviews by an aviation specialist.</li> <li>Include frequency of formal inspections by an aviation specialist of airstrips and helipads owned or operated by BHP.</li> </ul>
<b>Aviation activity description, planning and approvals</b>	<ul style="list-style-type: none"> <li>Describe the scope of aviation activities being undertaken and covered by the aviation management procedure.</li> <li>Detail the processes to be followed including the required endorsements and approvals before aviation operations.</li> </ul>
<b>Use of approved aircraft operators and management of BHP-owned airfields and helidecks</b>	<ul style="list-style-type: none"> <li>Mandate that only authorised aircraft operators may be used.</li> <li>Meet all requirements of the Flight Safety Foundation <a href="#">Basic Aviation Risk Standard</a> including any approved variations.</li> </ul>
<b>Written agreement with aircraft operator</b>	Must be in place for all contracted aviation activities. The technical schedule in the written agreement must be reviewed by the Head of Aviation, Group HSE, before issue of the tender for contracts where the total forecast spend is greater than US\$250,000.
<b>Aircraft operator compliance with technical standards of BHP</b>	The aircraft operator has procedures and verification processes to make sure personnel involved in scheduling or flying BHP chartered aircraft understand and agree to follow all requirements of the <a href="#">Basic Aviation Risk Standard</a> .
<b>Simulator training</b>	The requirements for when pilots attend simulator training for all long-term contracts to be reviewed with the approved competent aviation specialist.
<b>Operational risk assessment</b>	Performed by the aircraft operator before commencing aviation operations. The risk assessment must: <ul style="list-style-type: none"> <li>be reviewed by the competent aviation specialist;</li> <li>include all documented mitigations from the risk assessment into the journey management plan.</li> </ul>
<b>Journey management plans</b>	Must be prepared to cover all intended flights and include controls and mitigations for journey risks identified in the risk assessment.

## Appendix 2 RPAS management procedure requirements

Requirement	Explanation
<b>Designate the individual with single point of accountability for RPAS operations</b>	<ul style="list-style-type: none"> <li>Consult the Head of Aviation, Group HSE, to determine and document the qualifications and experience required.</li> <li>Nominate an internal BHP representative with the required qualifications and experience.</li> </ul>
<b>Outline the responsibilities of the individual with single point of accountability for RPAS operations</b>	<ul style="list-style-type: none"> <li>Reviews requests for RPAS tasks to assist in allocation of resources.</li> <li>Provides coordination for all RPAS activities on site including, when necessary, development of simultaneous operations plans.</li> <li>Reviews and approves all RPAS tasks occurring under standard operating conditions where the RPA is below 25kg.</li> <li>Ensures all RPA above 25kg and any non-standard activities have necessary approvals to operate.</li> <li>Reviews and approves all operational risk assessments for RPAS activities.</li> <li>Participates in BHP RPAS Working Group and engages in lessons-learned sharing and information exchange.</li> <li>Coordinates and performs Field Leadership of RPAS activities.</li> <li>Coordinates data gathering including a register of approved remote pilots, flight hours, number and type of missions, register of approved RPA, register of approved RPAS operators and incident reporting.</li> <li>Coordinates RPAS incident investigations and contributes to data collection for trend analysis.</li> </ul>
<b>Designate the individual accountable for providing specialist RPAS input</b>	<p>Name and contact details of an approved competent RPAS specialist to provide specialised aviation, airspace and/or regulatory advisory assistance.</p>
<b>RPAS activity description, planning and approvals</b>	<ul style="list-style-type: none"> <li>Describe the scope of RPAS activities being undertaken and covered by the RPAS management procedure.</li> <li>Mandate that a valid remote pilots licence (RPL), or local regulatory equivalent, is required for operation of all categories of RPA.</li> <li>Detail the processes to be followed including the required endorsements and approvals for RPA, remote pilots and RPAS operators before commencement of RPAS operations.</li> </ul>
<b>Use of approved RPAS operators</b>	<ul style="list-style-type: none"> <li>Mandate that only approved RPAS operators may be used.</li> <li>Internal and external RPAS operators meet all requirements of the Flight Safety Foundation <a href="#">RPAS Standard</a> including any approved variations.</li> </ul>
<b>Written agreement with RPAS operator</b>	<p>Must be in place for all contracted RPAS activities and reference the requirement to meet the Flight Safety Foundation <a href="#">RPAS Standard</a>.</p>
<b>RPAS operator compliance with technical standards of BHP</b>	<p>The RPAS operator has procedures and verification processes to make sure personnel involved in scheduling or piloting RPAS on behalf of or for BHP understand and agree to follow the Flight Safety Foundation <a href="#">RPAS Standard</a>.</p>
<b>Operational risk assessment</b>	<ul style="list-style-type: none"> <li>Performed by the RPAS operator before commencing any new activity.</li> <li>Reviewed and approved by the single point of accountability for RPAS operations.</li> <li>Identifies responsibility for change management associated with any new capability and/or new scope to existing operations.</li> <li>All mitigations identified in the risk assessment are included in the task.</li> </ul>