

## TACTICS TECHNIQUES & PROCEDURES

**Document No:** **ATTP A34 – Agusta 109**

**Date Issued:** **20 September 2021**

**Airframe:** **Agusta Westland AW 109**

**Supersedes:** **N/A**

**Applies to:** CFR  
TG 7  
RN (AH)  
DFR

**Stakeholders:** CFR HQ  
DFSR

**Review Date** **September 2022**

**Sponsor** **Alex Clark**  
**Details:** **Chief Fire Officer**  
Capita Fire & Rescue (CFR) HQ  
Reading Bridge House  
1<sup>st</sup> Floor  
George Street  
Reading  
RG1 8PJ

### CONDITIONS OF RELEASE

This document and the information contained within, is the exclusive property of Capita FR. No part of this document may be reproduced, disclosed, or used for any purpose other than that for which it was issued. This document may not be altered or amended in any way by unauthorised person(s). Any amendments or alterations made to this document will be disseminated appropriately to the distribution list, which will include effective dates and required inserts. Correspondence regarding or with reference to this should be addressed to [philip.mcguinness@capita.com](mailto:philip.mcguinness@capita.com)



**Capita**

**Capita Fire & Rescue**

**AIRCRAFT TACTICS TECHNIQUES PROCEDURES (AATP/A34)**

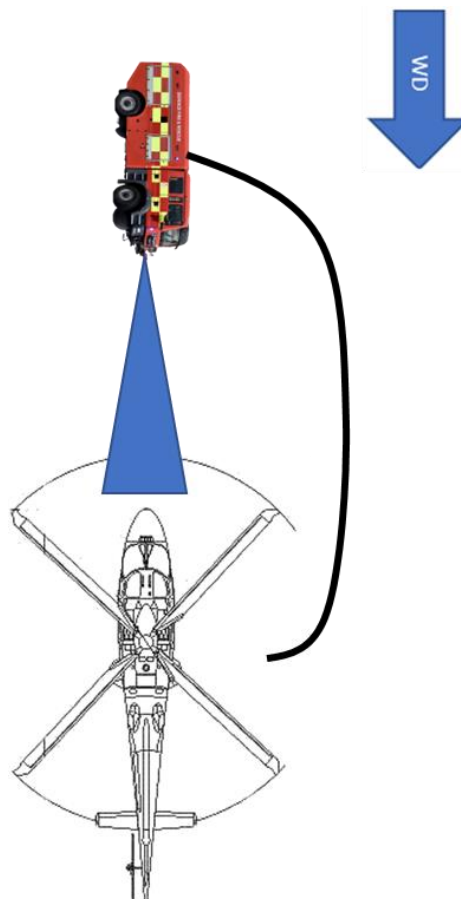
**Agusta Westland A109**

**MPRV (Crash1)**

TTP 1 - Engine Fire	Page 2
TTP 2 - Wheel Assembly Incidents	Page 5
TTP 3 – Internal Fire	Page 7
TTP 4 - External Fire	Page 9
Document Control	Page 11

## TTP 1 – Engine Fire

Event Plan – Initial deployment





## Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Consider required agencies
- Consider implementing MIP
- Direct firefighting actions
- Consider contacting aircraft commander via ATC or 121.6 if available
- Be aware of PAX exiting aircraft
- Direct rescue crew
- Direct all operational control and implement ICS
- Provide M/ETHANE report
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Consider water consolidation/replenishment.

## Crash 1 - MPRV Actions:

- Deploy vehicle to rescue side of aircraft
- Be aware of PAX and assist them with exiting the aircraft
- Direct personnel away from airframe
- Be prepared to operate monitor and direct media into engine fire until extinguished
- Consider method of entry if PAX remain on board
- Don BA and utilise Initial Deployment Procedures if required
- Deploy media with 45mm hose/hose reel as determined by IC DRA and prepare for entry into aircraft
- Consider use of a covering line x2 45mm branch for areas out of reach of monitor.
- BA team access aircraft and create survivable conditions
- Confirm/make safe aircraft systems
- Utilise medics to triage casualties on board if survivable conditions are present
- Aid medics in extricating casualties
- Maintain contact with IC.

## Specific Aircraft Hazards:

- Flammable liquids
- Pressurised gases
- Main and tail rotor blades
- Exhaust
- Does not carry any additional hazardous material.

## Further Considerations:

- Aircraft position and wreckage
- Leaking fuel
- Passengers
- Other agencies
- Rotor Blades.

## Supporting Information:

- NOG
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy



- CFR Ops Instruction 006 – MPRV ARFF Positioning Deployment & Task
- CFR Ops Instruction 007 – MPRV Vehicle Operations
- CFR Ops Instruction 033 – BA Operations
- CFR Op Guidance 001 – 2020 – Aircraft Incidents
- CFR Op Guidance 002 – 2020 - Incidents involving Rotary Wing Aircraft
- CFR Op Guidance 003 – 2020 – Aircraft Fuel Fires
- CFR Op Guidance 006 – 2020 – Aircraft Internal Fires
- CFR Op Guidance 007 – 2020 – Aircraft Engine Fire
- CFR Op Guidance 008 – 2020 – Aircraft Undercarriage Incidents
- MOD Aircraft Crash Hazards Document Set
- NATO STANAG/TO 00-105E-9-F15-Chapter 13 (revision 16). A109

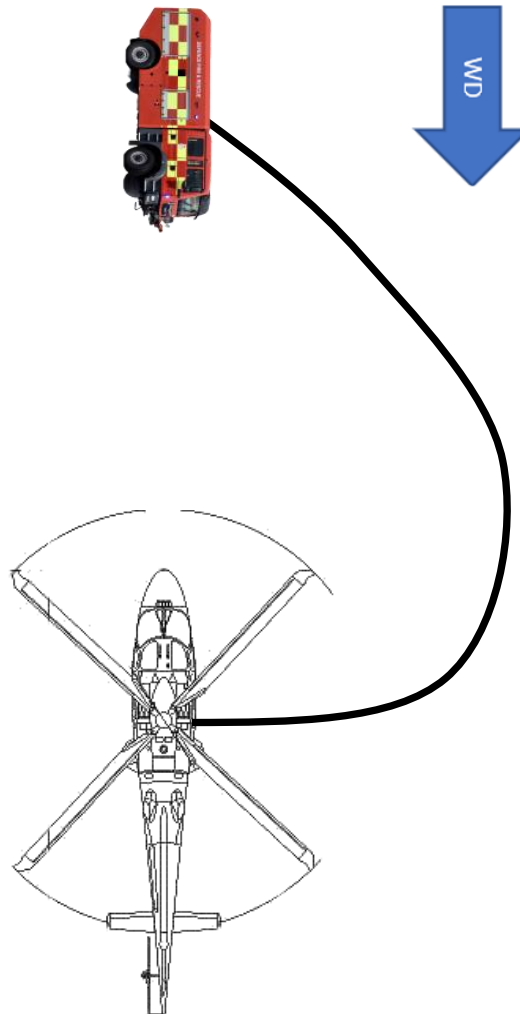
### **Training:**

- Aircraft familiarisation
- Deployment exercise(s)
- Redkite CMS
- Aircraft lecture – 6 monthly lesson / familiarisation presentation.



## TTP 2 – Wheel Assembly Incidents

### Event Plan - Initial Deployment



### Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Formulate tactics dependent if fire is present and where escalation is likely
- Consider required agencies
- Consider implementing MIP
- Direct firefighting actions
- Consider contacting aircraft commander via ATC or 121.6 if available
- Be aware of PAX exiting aircraft
- Direct rescue crew
- Direct all operational control and implement ICS
- Provide M/ETHANE report
- Maintain safe operations and ensure scene safety



- Direct other agencies
- Consider water consolidation/replenishment.

### Crash 1 - MPRV Actions:

- Deploy vehicle to rescue side of aircraft
- Be aware of PAX exiting the aircraft
- Be prepared to operate monitor using dual application
- Consider method of entry if PAX remain on board
- Don BA and utilise Initial Deployment Procedures
- Deploy 45mm hose covering line
- Make access to aircraft and confirm survivable conditions
- Utilise Medics to triage casualties on board if survivable conditions are present
- Aid Medics in extricating casualties.

### Specific Aircraft Hazards/Procedures:

- Flammable liquids
- Pressurised gases
- Main and tail rotor blades
- Exhaust
- Does not carry any additional hazardous material.

### Further Considerations:

- Aircraft position and wreckage
- Leaking fuel
- Passengers
- Other agencies
- Rotor blades
- The actions during this incident will be dependent on the following conditions:
  1. Is the wheel assembly on fire?
  2. Is the fire confined to one area or is escalation likely?

### Supporting Information:

- NOG
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
- CFR Ops Instruction 006 – MPRV ARFF Positioning Deployment & Task
- CFR Ops Instruction 007 – MPRV Vehicle Operations
- CFR Ops Instruction 033 – BA Operations
- CFR Op Guidance 001 – 2020 – Aircraft Incidents
- CFR Op Guidance 002 – 2020 - Incidents involving Rotary Wing Aircraft
- CFR Op Guidance 003 – 2020 – Aircraft Fuel Fires
- CFR Op Guidance 006 – 2020 – Aircraft Internal Fires
- CFR Op Guidance 007 – 2020 – Aircraft Engine Fire
- CFR Op Guidance 008 – 2020 – Aircraft Undercarriage Incidents
- MOD Aircraft Crash Hazards Document Set
- NATO STANAG/TO 00-105E-9-F15-Chapter 13 (revision 16). A109

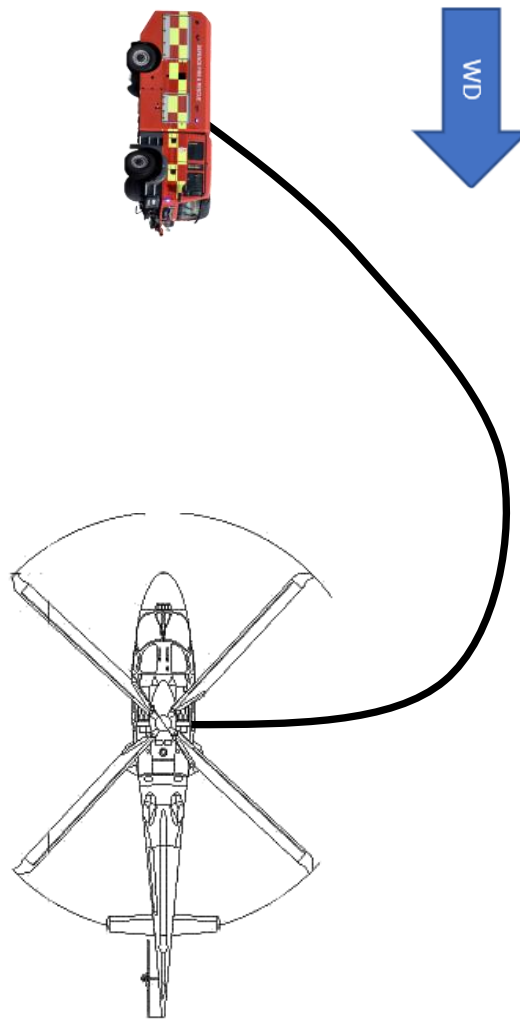


### Training:

- Aircraft familiarisation
- Deployment exercise(s)
- Redkite CMS
- Aircraft lecture – 6 monthly lesson / familiarisation presentation.

## TTP 3 – Internal Fire

### Event Plan - Initial Deployment



### Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Consider required agencies
- Consider implementing MIP
- Direct firefighting actions
- Consider contacting aircraft commander via ATC or 121.6 if available



- Be aware of PAX exiting aircraft
- Direct rescue crew
- Direct all operational control and implement ICS
- Provide M/ETHANE report
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Water consolidation/replenishment.

## Crash 1 - MPRV Actions

- Deploy vehicle to rescue side of aircraft
- Be aware of PAX exiting the aircraft
- Consider method of entry if PAX remain on board
- Don BA and utilise Initial Deployment Procedures
- Deploy 45mm hose/hose reel as determined by IC DRA
- Make access to aircraft and create survivable conditions by extinguishing fire and ventilating
- Remove any casualties from immediate danger
- Utilise Medics to triage casualties on board if survivable conditions are present
- Aid Medics in extricating casualties.

## Specific Aircraft Hazards/Procedures:

- Flammable liquids
- Pressurised Gases
- Main and tail rotor blades
- Exhaust
- Does not carry any additional hazardous material.

## Further Considerations:

- Aircraft position and wreckage
- Leaking fuel
- Passengers
- Other agencies
- Internal lighting
- Hydraulic ventilation
- Rotor blades.

## Supporting Information:

- NOG
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
- CFR Ops Instruction 006 – MPRV ARFF Positioning Deployment & Task
- CFR Ops Instruction 007 – MPRV Vehicle Operations
- CFR Ops Instruction 033 – BA Operations
- CFR Op Guidance 001 – 2020 – Aircraft Incidents
- CFR Op Guidance 002 – 2020 - Incidents involving Rotary Wing Aircraft
- CFR Op Guidance 003 – 2020 – Aircraft Fuel Fires
- CFR Op Guidance 006 – 2020 – Aircraft Internal Fires
- CFR Op Guidance 007 – 2020 – Aircraft Engine Fire





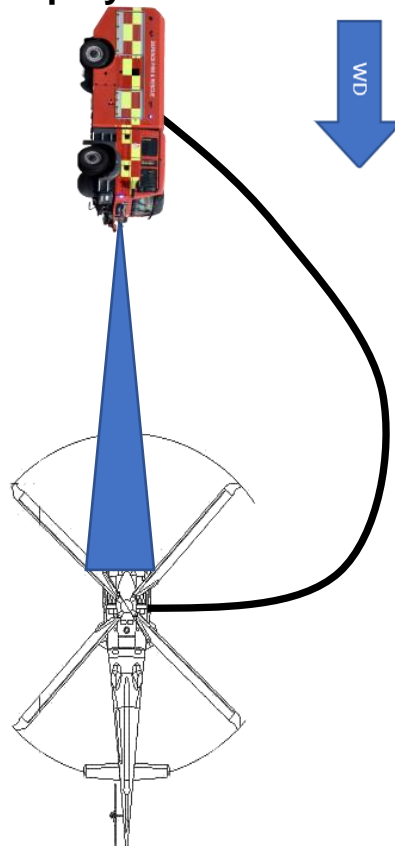
- CFR Op Guidance 008 – 2020 – Aircraft Undercarriage Incidents
- MOD Aircraft Crash Hazards Document Set
- NATO STANAG/TO 00-105E-9-Chapter 13 (revision 16). A109

### Training:

- Aircraft familiarisation
- Deployment exercise(s)
- Redkite CMS
- Aircraft lecture – 6 monthly lesson / familiarisation presentation.

## TTP 4 - External Fire

### Event Plan – Initial Deployment



### Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Consider required agencies
- Consider implementing MIP
- If external fire only then utilise MPRV monitor
- Direct firefighting actions
- Consider contacting aircraft commander via ATC or 121.6 if available
- Be aware of PAX exiting aircraft



- Direct rescue crew
- Direct all operational control and implement ICS
- Provide M/ETHANE report
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Water consolidation/replenishment.

### Crash 1 - MPRV Actions:

- Deploy vehicle to rescue side of aircraft
- Deploy main monitor and extinguish fire utilising mass discharge
- Be aware of PAX exiting the aircraft
- Consider method of entry if PAX remain on board
- Don BA and utilise Initial Deployment Procedures (if required)
- Deploy 45mm hose as determined by IC DRA (if required)
- Make access to aircraft crew and confirm survivable conditions (if required)
- Utilise Medics to triage casualties on board if survivable conditions are present
- Aid Medics in extricating casualties.

### Specific Aircraft Hazards/Procedures:

- Flammable liquids
- Pressurised gases
- Main and tail rotor blades
- Exhaust
- Does not carry any additional hazardous material.

### Further Considerations:

- Aircraft position and wreckage
- Leaking fuel
- Passengers
- Other agencies
- Rotor blades.

### Supporting Information:

- NOG
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
- CFR Ops Instruction 006 – MPRV ARFF Positioning Deployment & Task
- CFR Ops Instruction 007 – MPRV Vehicle Operations
- CFR Ops Instruction 033 – BA Operations
- CFR Op Guidance 001 – 2020 – Aircraft Incidents
- CFR Op Guidance 002 – 2020 – Incidents involving Rotary Wing Aircraft
- CFR Op Guidance 003 – 2020 – Aircraft Fuel Fires
- CFR Op Guidance 006 – 2020 – Aircraft Internal Fires
- CFR Op Guidance 007 – 2020 – Aircraft Engine Fire
- CFR Op Guidance 008 – 2020 – Aircraft Undercarriage Incidents
- MOD Aircraft Crash Hazards Document Set
- NATO STANAG/TO 00-105E-9-F15-Chapter 13 (revision 16) A109



### Training:

- Aircraft familiarization
- Deployment exercise(s)
- Redkite CMS
- Aircraft lecture – 6 monthly lesson / familiarization presentation.

Document Control					
Version	Date	Author	Role/Name	Status	Changes
V0.1	20210111	Roberts	Trg Mgr (NHT)	Initial	V0.1
V0.1	20210719	Jones	A/Cpl	Initial	DFR feedback