



Ministry
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Defence Fire and Rescue Tactics, Techniques & Procedures

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¹ RN (AH) stakeholders are the Operational Responders based at the Culdrose, Predannack, Yeovilton and Merryfield aerodromes

² Other FRS Providers include Babcock, Mitie and QinetiQ Fire Services. In addition, this publication will also be shared with AWE and QinetiQFRS for information purposes only.

³ For the purposes of this ATTP, DFRS Fire Officers employed within DFRS, DIO & RN, are included for information purposes only.

VERSION CONTROL HISTORY

Version	Date	Amended By	Role	Change	Status
V1.0	09/01/2025	Jason Crossland		Draft for Comment	Initial
V1.1	10/01/2025	Phil McGuinness	CFR Hd of Response	Minor layout changes incorporated	N/A
V1.2	22/01/2025	Shane Cook	AM for DFR HQ	Stakeholder Review	For issue
V1.2	22/01/2025	Phil McGuinness	CFR Hd of Response	Issued following feedback	Issued



AIRCRAFT TACTICS TECHNIQUES PROCEDURES

Phenom 100⁴

1 x MPRV

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TTP 1 - Engine Fire / External Fire

Event Plan - Initial Deployment: Up Wind, Positioned on the affected engine/fire, monitors to protect critical area.



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 METHANE report
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Consider water consolidation/replenishment.

⁴ ICO3 Response: Consisting of single MPRV, c/w a crew of 4 (minimum water requirement for a/c type is 1200 litre).

Crash 1 - MPRV Actions:

- Deploy vehicle to rescue side of aircraft
- Be aware of PAX exiting the aircraft
- Be prepared to operate monitor
- Consider method of entry if PAX remain on board
- Don BA and utilise Initial Deployment Procedures
- Deploy sufficient lengths of 45mm hose c/w Branch (Akron) and prepare for entry into aircraft
- BA team access aircraft and create survivable conditions
- Make safe aircraft systems
- Consider use of TIC
- Confirm/make safe aircraft systems
- Utilise Medics (RPE to be worn) to triage casualties on board if survivable conditions are present
- Aid Medics in extricating casualties.

Specific Aircraft Hazards - (Make use of AQRC):

- Flammable liquids
- Pressurised gases.
- Polymer-composite Materials
- Dimethylformamide – strobe power packs at wing tips and cockpit floor
- Batteries

Further Considerations:

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

Supporting Information:

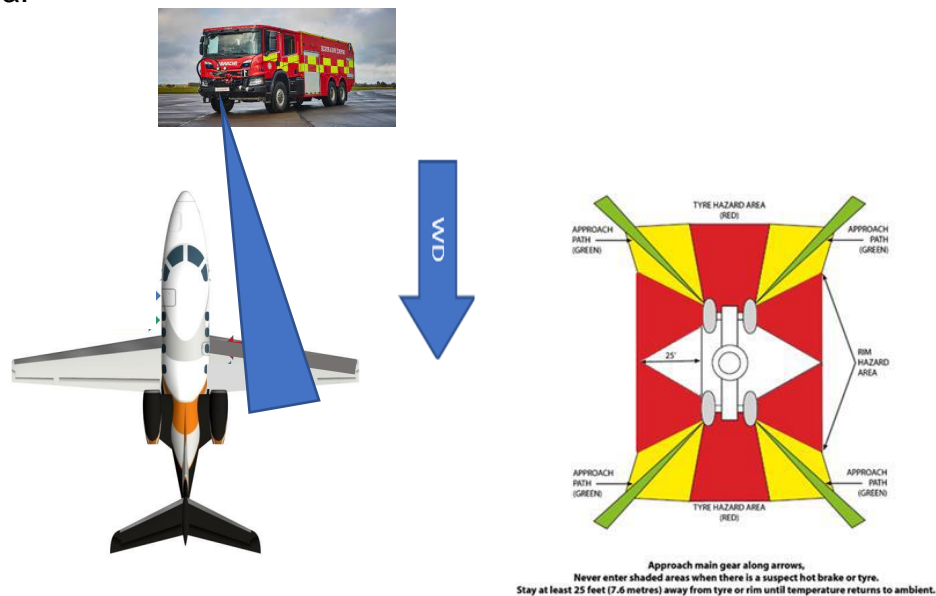
- DFR-OG 009 - Aircraft Fires
- Op Instruction 001 - Aircraft Incidents
- Op Instruction 002 - CFR HSE Policy
- Op Instruction 005 - Low Speed Manoeuvring
- Op Instruction 006 - MPRV ARFF Positioning Deployment & Task
- Op Instruction 007 - MPRV Vehicle Operations
- Op Instruction 033 - BA Operations
- Op Instruction 066 - Fire Contaminants
- Op Instruction 069 - Polymer-Composites-and-MMMF
- Op Guidance 001 - Aircraft Incidents
- Op Guidance 003 - Aircraft Fuel Fires and Foam Application
- Op Guidance 005 - Incidents Involving Small Aircraft
- Op Guidance 006 - Aircraft Internal Fires
- Op Guidance 007 - Aircraft Engine Fire
- MOD Aircraft Crash Hazards Document Set
- NATO STANAG / TO 00-105E-9-Chapter 13 (revision 16)
- DSA 1000m assessments
- DSA Water assessments
- DSA Response assessments

Training:

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

TTP2 - Wheel Assembly Incidents

Event Plan - Initial Deployment: Up Wind, Position on the affected area, monitors to protect critical area.



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 METHANE report
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Consider water consolidation/replenishment.

Crash 1 - MPRV Actions:

- Deploy vehicle to affected wheel (it may become necessary to redeploy to rescue side of the aircraft if incidents escalates).
- Be aware of PAX exiting the aircraft
- Consider discharge from Monitor
- Consider method of entry if PAX remain on board
- Don BA and utilise Rapid Deployment Procedures
- Deploy sufficient lengths of hose (45mm) / c/w Branch (Akron)
- Consider use of secondary agent
- Consider use of TIC
- Select Firefighting media dependent if fire is present and to what extent
- Carry out check of area affected by fire (if present) to confirm area is safe
- Cool if required
- Make access to aircraft and confirm survivable conditions, (if required)
- Utilise Medics to triage casualties on board if survivable conditions are present, (if required)
- Aid Medics in extricating casualties, (if required).
- Provide scene safety.

Specific Aircraft Hazards (Make use of the AQRC):

- Flammable liquids
- Pressurised gases.
- Polymer-composite Materials
- Dimethylformamide – strobe power packs at wing tips and cockpit floor
- Batteries

Further Considerations:

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

Supporting Information:

- DFR-OG 009 - Aircraft Fires
- Op Instruction 001 - Aircraft Incidents
- Op Instruction 002 - CFR HSE Policy
- Op Instruction 005 - Low Speed Manoeuvring
- Op Instruction 006 - MPRV ARFF Positioning Deployment & Task
- Op Instruction 007 - MPRV Vehicle Operations
- Op Instruction 033 - BA Operations
- Op Instruction 066 - Fire Contaminants
- Op Instruction 069 - Polymer-Composites-and-MMMF
- Op Guidance 001 - Aircraft Incidents
- Op Guidance 003 - Aircraft Fuel Fires and Foam Application
- Op Guidance 005 - Incidents Involving Small Aircraft
- Op Guidance 006 - Aircraft Internal Fires
- Op Guidance 008 - Aircraft Undercarriage Incidents
- MOD Aircraft Crash Hazards Document Set
- NATO STANAG / TO 00-105E-9-Chapter 13 (revision 16)
- DSA 1000m assessments
- DSA Water assessments
- DSA Response assessments

Training:

- Aircraft familiarization
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TTP 3 – Internal Fire

Event Plan - Initial Deployment: Up Wind, Position Port side for Rescue 45mm hose for entry.



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 METHANE 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
- Consider method of entry if PAX remain on board
- Don BA and utilise Initial Deployment Procedures
- Deploy sufficient lengths of hose (45mm) / c/w Akron Branch
- Make access to aircraft and create survivable conditions by extinguishing fire & ventilating
- Consider use of TIC
- Remove any casualties from immediate danger
- Utilise Medics (RPE to be worn) to triage casualties on board if survivable conditions are present
- Aid Medics in extricating casualties.
- Provide scene safety.

Specific Aircraft Hazards (Make use of the AQRC):

- Flammable liquids
- Pressurised gases.
- Polymer-composite Materials
- Dimethylformamide - strobe power packs at wing tips and cockpit floor
- Batteries

Further Considerations:

- Aircraft position and wreckage
- Leaking fuel
- Passengers
- Other agencies
- Scene/Internal lighting
- Hydraulic ventilation.

Supporting Information:

- DFR-OG 009 - Aircraft Fires
- Op Instruction 001 - Aircraft Incidents
- Op Instruction 002 - CFR HSE Policy
- Op Instruction 005 - Low Speed Manoeuvring
- Op Instruction 006 - MPRV ARFF Positioning Deployment & Task
- Op Instruction 007 - MPRV Vehicle Operations
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- Op Guidance 001 - Aircraft Incidents
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- MOD Aircraft Crash Hazards Document Set
- NATO STANAG / TO 00-105E-9-Chapter 13 (revision 16)
- DSA 1000m assessments
- DSA Water assessments
- DSA Response assessments
- BAE DOR/146/405.

Training:

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