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## Defence Fire and Rescue Tactics Techniques & Procedures

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	RN Aircraft Handler	✓	RAF Fire and Rescue	✓
	DFRS LEC	✓	Other FRS Providers <sup>1</sup>	✓
	DFRS (Retained Officers)		DFRS (USVF)	
Technical Approved	Defence Fire and Rescue (CFR HQ) Operations Committee			

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<sup>1</sup> Other FRS Providers include Babcock Fire Services, Mitie Fire Service, QinetiQ Fire Service.



## AIRCRAFT TACTICS TECHNIQUES PROCEDURES

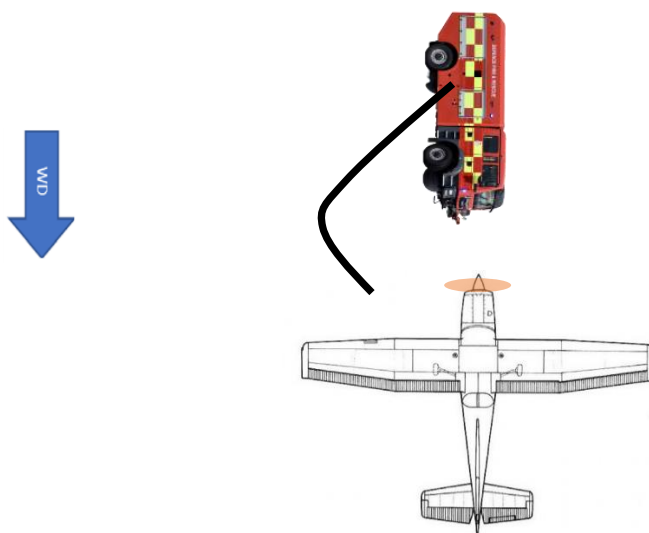
Cessna 172H

1 x MPRV Response

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### TTP 1 - Engine Fire

#### Event Plan - Initial Deployment:



**BEWARE OF APPROACH IF PROPELLER IS TURNING**

#### Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Direct rescue crew and maintain operational control, safe operations and scene safety
- Implement ICS
- Direct firefighting actions (Monitor or dual application)
- Consider contacting aircraft commander via ATC or 121.6 if available
- Be aware of PAX exiting aircraft
- Provide M/ETHANE report if required
- Direct other agencies
- Water consolidation/replenishment
- Consider required agencies.

## **Crash 1 - MPRV Actions:**

- Deploy vehicle to nose of aircraft
- Be aware of PAX exiting the aircraft
- Be prepared to operate Monitor if required
- Consider method of entry if PAX remain on board
- Don BA, utilise Initial Deployment Procedures following IC's DRA
- Deploy 1 or 2 x 45mm lengths of hose with Akron branch/dry powder for engine fire at IC's direction
- Access aircraft make safe aircraft systems and create survivable conditions if required
- Utilise Medics to triage casualties on board if safe and required
- Aid Medics in extricating casualties.

## **Specific Aircraft Hazards - (Make use of AQRC):**

- Pressurised liquids (fuel, engine oil, Hydraulic oil)
- Propellers
- MMF's
- Electrical
- Batteries.

## **Further Considerations:**

- Aircraft position and Access
- Leaking fuels and oils
- Passengers
- MMMF's
- Other agencies.

## **Supporting Information:**

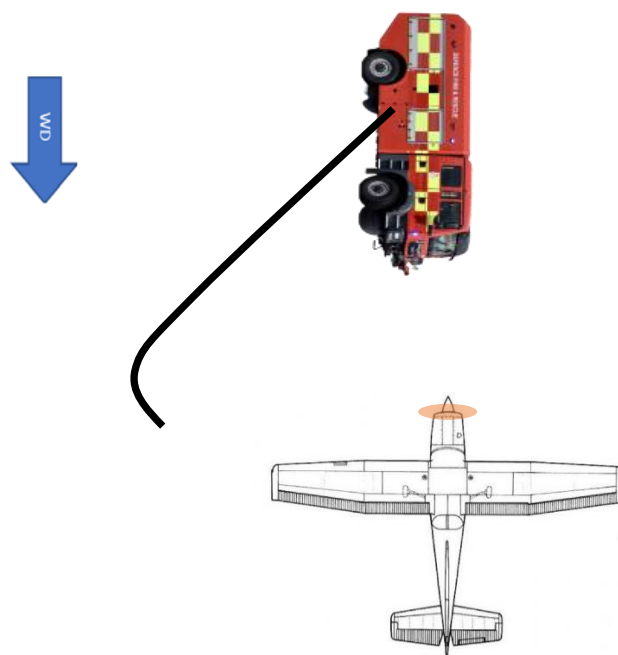
- DFR-OG 009 - Aircraft Fires
- Op Guidance 001 - Aircraft Incidents
- Op Guidance 003 - Aircraft Fuel Fires
- Op Guidance 005 - Incidents Involving Small Aircraft
- Op Guidance 008 - Aircraft Undercarriage Incidents
- Ops Instruction 002 - CFR HSE Policy
- Ops Instruction 005 - Low Speed Manoeuvres
- CFR Ops Instruction 006 - MPRV ARFF Positioning Deployment & Task
- CFR Ops Instruction 007 - MPRV Vehicle Operations
- Ops Instruction 033 - BA Operations
- MAA Regulatory Publication Document Set
- AQRC A04.

## **Training:**

- Aircraft familiarization
- Aircraft Engine shut down – QRC and familiarisation
- Deployment exercise(s)
- Aircraft lecture – 6 monthly lesson / familiarization presentation
- Redkite CMS.

## TTP 2 - Wheel Assembly Incidents

### Event Plan - Initial Deployment:



**BEWARE OF APPROACH IF PROPELLER IS TURNING**

### Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Be aware of PAX exiting aircraft
- Formulate tactics dependent if fire is present and where escalation is likely
- Direct firefighting actions (dependent on fire scenario)
- Consider contacting aircraft commander via ATC or 121.6 if available
- Direct rescue crew and maintain operational control, safe operations and scene safety
- Implement ICS
- Provide M/ETHANE report
- Consider water consolidation/replenishment
- Consider and direct other required agencies.

### Crash 1 - MPRV Actions:

- Deploy vehicle to nose of aircraft
- Be aware of PAX exiting the aircraft
- Be prepared to operate Monitor if required
- Consider method of entry if PAX remain on board
- Don BA, utilise Initial Deployment Procedures following IC's DRA
- Deploy 1 or 2 x 45mm lengths of hose with Akron branch/dry powder for engine fire at IC's direction
- Access aircraft make safe aircraft systems and create survivable conditions if required
- Utilise Medics to triage casualties on board if safe and required
- Aid Medics in extricating casualties.

## **Specific Aircraft Hazards - (Make use of AQRC):**

- Pressurised liquids (hydraulic oil, fuel, engine oil)
- Pressurised Gases
- Solids
- Explosive Material.

## **Further Considerations:**

- Aircraft position and wreckage
- Leaking fuel
- Passengers
- Other agencies
- 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:**

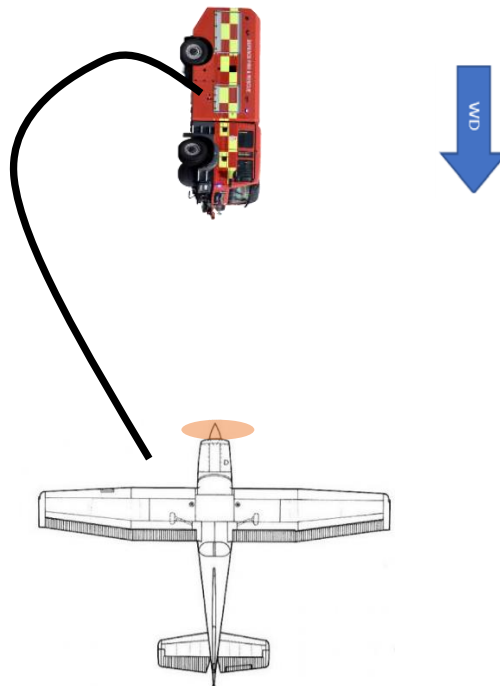
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- CFR Ops Instruction 007 - MPRV Vehicle Operations
- Ops Instruction 033 - BA Operations
- MAA Regulatory Publication Document Set
- AQRC A04.

## **Training:**

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

## TTP 3 - Internal Fire

### Event Plan - Initial Deployment



**BEWARE OF APPROACH IF PROPELLER IS TURNING**

### Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Be aware of PAX exiting aircraft
- Formulate tactics dependent if fire is present and where escalation is likely
- Consider implementing the MIP
- Direct firefighting actions
- Consider contacting aircraft commander via ATC or 121.6 (if available)
- Direct rescue crew and maintain operational control, safe operations and scene safety
- Implement ICS
- Provide M/ETHANE report
- Consider water consolidation/replenishment
- Consider and direct other required agencies.

### Crash 1 - MPRV Actions:

- Deploy vehicle upwind of aircraft to avoid smoke plume
- Be aware of PAX exiting the aircraft
- Consider method of entry if PAX remain on board
- Don BA and utilise Initial Deployment Procedures
- Deploy 1 or 2 x 45mm lengths of hose with Akron branch
- 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 - (Make use of AQRC):**

- Pressurised liquids (fuel, engine oil, Hydraulic oil)
- Batteries
- Pressurised Gases
- Explosive Material
- Dimethylformamide – strobe power packs at wing tips and cockpit floor.

## **Further Considerations:**

- Aircraft position, bystanders
- Leaking fuel, water course
- Passengers
- Other agencies.

## **Supporting Information:**

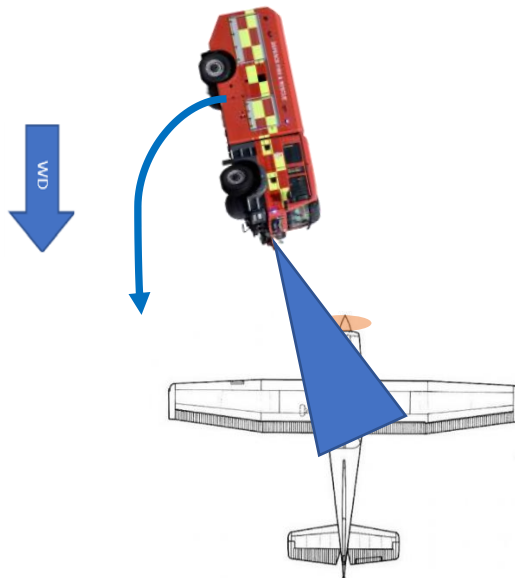
- DFR-OG 009 - Aircraft Fires
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- Op Guidance 003 - Aircraft Fuel Fires
- Op Guidance 005 - Incidents Involving Small Aircraft
- Op Guidance 008 - Aircraft Undercarriage Incidents
- Ops Instruction 002 - CFR HSE Policy
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- CFR Ops Instruction 006 - MPRV ARFF Positioning Deployment & Task
- CFR Ops Instruction 007 - MPRV Vehicle Operations
- Ops Instruction 033 - BA Operations
- MAA Regulatory Publication Document Set
- AQRC A04.

## **Training:**

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

## TTP 4 - External Fires

### Event Plan - Initial Deployment



**BEWARE OF APPROACH IF PROPELLER IS TURNING**

### Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Be aware of PAX exiting aircraft
- Formulate tactics dependent if fire is present and where escalation is likely
- If external fire only then utilise MPRV Monitor
- Consider implementing the MIP
- Direct firefighting actions
- Consider contacting aircraft commander via ATC or 121.6 if available
- Direct rescue crew and maintain operational control, safe operations and scene safety
- Implement ICS
- Provide M/ETHANE report
- Consider water consolidation/replenishment
- Consider and direct other required agencies.

### Crash 1 - MPRV Actions:

- Deploy vehicle to nose of aircraft where conditions permit
- Deploy monitor to create survivable conditions and/or 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 1 or 2 x 45mm lengths of hose with Akron branch
- 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 (Make use of AQRC):

- Pressurised liquids (fuel, engine oil, Hydraulic oil)
- Batteries
- Pressurised Gases
- Explosive Material
- Dimethylformamide – strobe power packs at wing tips and cockpit floor.

## Further Considerations:

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

## Supporting Information:

- DFR-OG 009 - Aircraft Fires
- Op Guidance 001 - Aircraft Incidents
- Op Guidance 003 - Aircraft Fuel Fires
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- CFR Ops Instruction 007 - MPRV Vehicle Operations
- Ops Instruction 033 - BA Operations
- MAA Regulatory Publication Document Set
- AQRC A04.

## Training:

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

## Document Control

Version	Date	Author	Role	Status	Changes
V1.0	10 04 2024	D Cain	FS - TM/SQAC	Drafted	
V1.0	15 04 2024	P McGuinness	CFR - Hd of Response	Issued for stakeholder approval	
V1.1	16 04 2024	P McGuinness	CFR - Hd of Response	Released following review	