



Ministry
of Defence



Defence Fire and Rescue

Tactics Techniques & Procedures

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	RN Aircraft Handler	✓	RAF Fire and Rescue	✓
	DFRS LEC	✓	Other FRS Providers ¹	✓
	DFRS (Retained Officers)		DFRS (USVF)	
Technical Approved	DFR & CFR ARFF SME Operations Committee			

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¹ Other FRS Providers include Babcock Fire Services, Mitie Fire Service, QinetiQ Fire Service.



Defence Fire & Rescue

Aircraft Tactics Techniques Procedure (ATTP/A33)

Apache AH64E²

This ATTP applies to a response model incorporating 2 x MPRVs

MPRV (Crash 1)

1 x Crew Manager
1 x ERD
2 x FFtr

MPRV (Crash 2)

1 x Watch Manager
1 x ERD
2 x FFtr

TTP1 - External Fire

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TTP 2 - Engine Compartment Fire

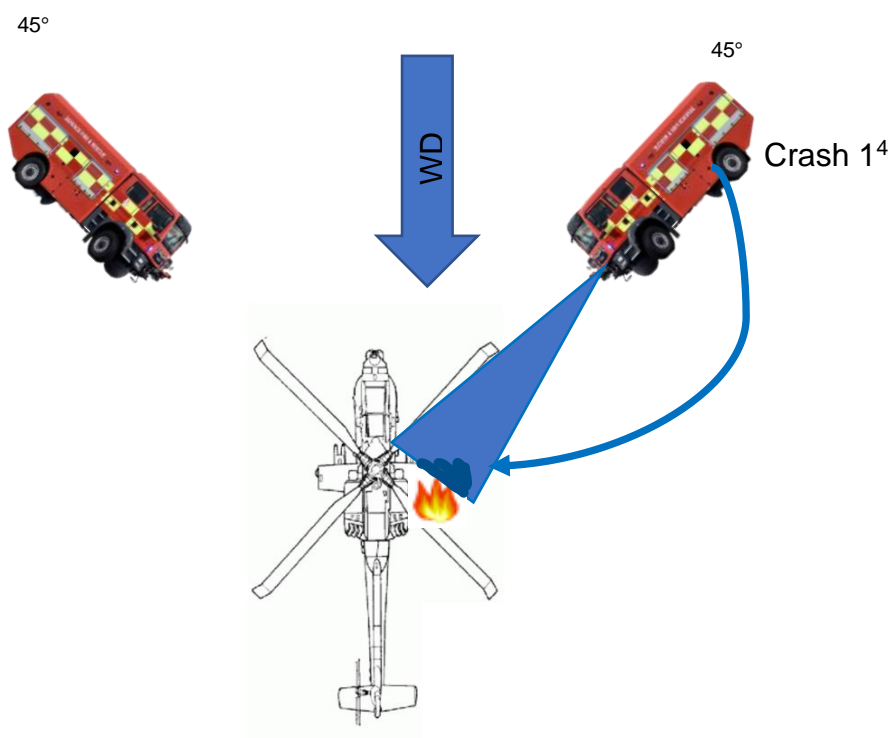
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TTP 1 – External Fire

Event Plan - Initial deployment³



² Apache AH64E - H2 Category Aircraft (Nominal Response: 1 x MPRV Crew of 4).

³ In order to maintain aerodrome ARFF capability the IC may direct that all equipment is taken from Crash 1, thus leaving Crash 2 available.

⁴ MPRV holds 4600lts - Water Requirement for Apache 1200lts

Incident Commander Considerations:

- Confirm whether armaments and countermeasures are present
- Consider safe deployment of ARFF Vehicles (armaments depending)
- Conduct a Dynamic Risk Assessment (DRA)
- Direct all operational control and implement Incident Command System
- Consider mass discharge from monitor
- Consider contacting aircraft commander via Air Traffic Control
- Be aware of aircrew exiting aircraft (if able to self-evacuate)
- If unable to self-evacuate, direct firefighting actions to create survivable conditions
- Declare Tactical Mode
- Consider use of secondary media
- Extinguish all Fires/Rapid knock down of smoke plume
- Order Crash 1 Breathing Apparatus (BA) team to don BA, on air, using Rapid Deployment
- Direct BA crew/triage casualties can they be moved Yes/No
- Provide M/ETHANE report⁵
- Consider required additional agencies and resources
- Maintain safe operations and ensure scene safety
- Exercise Cordon Control
- On arrival of additional agencies instigate JESIP for multi-agency incident.
- Share Situational Awareness (Hazards and Risks)
- Conduct Rescues/Assist Medics (appropriate PPE/RPE in use)
- Direct other Agencies
- Consider media run-off and water courses on scene.
- Consider preservation of evidence

Crash 1 – MPRV Actions

- Deploy vehicle at minimum of 45-degree angle to aircraft nose if a/c is armed
- Be aware of aircrew exiting the aircraft
- Direct aircrew away from the airframe
- Consider use of monitor to extinguish fire.
- Consider use of secondary agents.
- Consider method of entry if PAX remain onboard
- Don BA and instigate Rapid Deployment Procedures if required
- Deploy media with sufficient lengths of 45mm hose/hose reel as determined by Incident Commanders (IC) DRA and prepare for entry into aircraft
- BA team access aircraft and create survivable conditions where required
- Confirm/make safe aircraft systems
- Utilise Medics to triage aircrew on board if survivable conditions are present
- Aid Medics in extricating aircrew
- Consider use of auxiliary equipment such as TIC
- Carry out external airframe cooling
- Provide scene safety.

⁵ A point of note: The aerodrome operator may initiate the Stations Major Incident Plan

Crash 2 – MPRV Actions

- Deploy vehicle at minimum of 45-degree angle to aircraft nose if a/c is armed
- Be aware of aircrew exiting the aircraft
- Direct aircrew away from the airframe
- IC will maintain contact with Crash 1 vehicle commander
- Crash 2 firefighters will support as detailed by the IC
- Provide scene safety.

Specific Aircraft Hazards:

- Rotors
- Armaments / Pyrotechnics
- Flammable liquids/pressurised gases
- Composite aircraft materials.

Further Considerations:

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

Supporting Information:

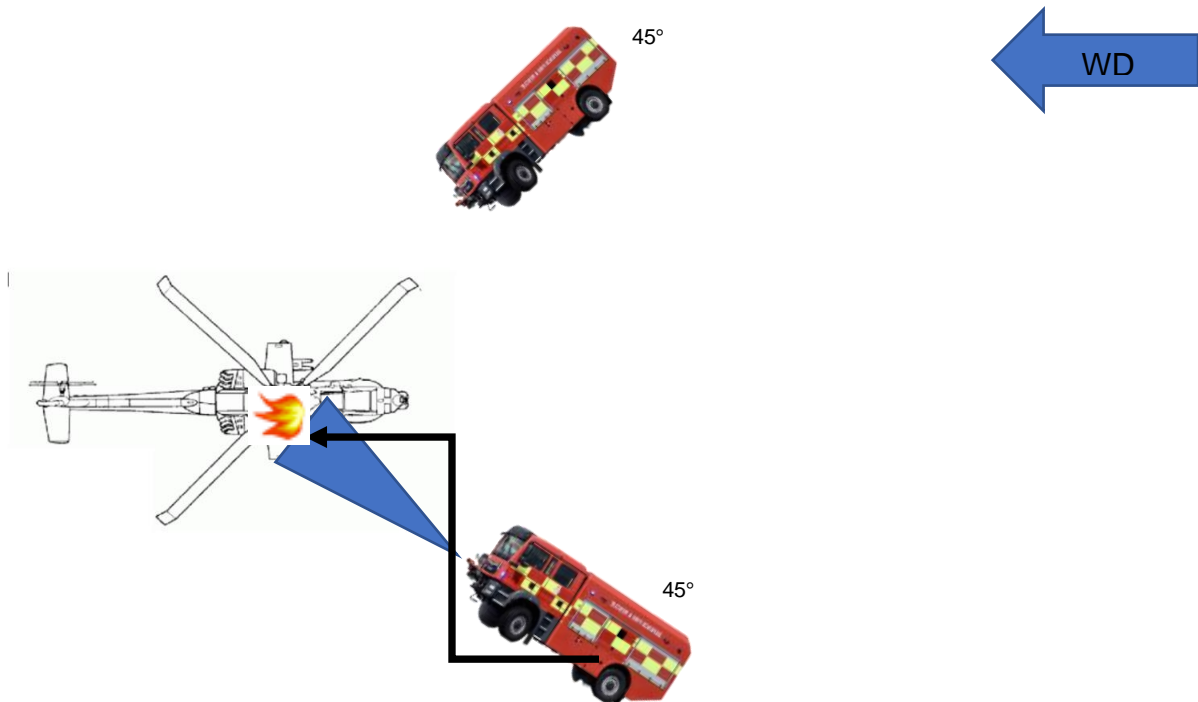
- NOG
- CFR ARFF TOG
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
- CFR Ops Instruction 005 – Low Speed Manoeuvring
- CFR Ops Instruction 006 – MPRV ARFF Positioning Deployment & Task
- CFR Ops Instruction 007 – MPRV Vehicle Operations
- CFR Ops Instruction 033 – BA Operations
- CFR Op Guidance 001 – Aircraft Incidents
- CFR Op Guidance 002 – Incidents Involving Rotary Wing Aircraft
- CFR Op Guidance 003 – Aircraft Fuel Fires
- CFR Op Guidance 006 – Aircraft Internal Fires
- CFR Op Guidance 007 – Aircraft Engine Fires
- MOD Aircraft Crash Hazards Document Set
- AQRC A33 – AH64E Apache
- NATO STANAG/TO 00-105E-9-Chapter 13 (revision 16)
- DSA 1000m assessments
- DSA Water assessments
- DSA Response assessments

Training:

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

TTP 2 – Engine Compartment Fire

Event Plan - Initial Deployment



- Confirm whether armaments and countermeasures are present
- Consider safe deployment of ARFF Vehicles (armaments depending)
- Conduct a Dynamic Risk Assessment (DRA)
- Direct all operational control and implement Incident Command System
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- Aid Medics in extricating aircrew
- Consider use of auxiliary equipment such as TIC
- Carry out external airframe cooling
- Provide scene safety

Crash 2 – MPRV Actions

- Deploy vehicle at minimum of 45-degree angle to the aircraft nose if a/c is armed
- Be aware of aircrew exiting the aircraft
- Direct aircrew away from the airframe
- IC will maintain contact with Crash 1 vehicle commander
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Document Control

Version	Date	Author/ Reviewer	Role/Name	Status	Changes
V1.0	27/08/2021	C McAleer	WM	Draft	
V1.1	30/09/2023	M Smith	FSM	Update	
V1.2	07/10/2023	P McGuinness	Hd of Response	Sent for Stakeholder Review	
V1.2	02/11/2023	Shane Cook	DFR HQ Ops Capability	Reviewed	
V1.2	09/11/2023	P McGuinness	Hd of Response	Issued	