



Ministry
of Defence



Defence Fire and Rescue

Tactics Techniques & Procedures

Document No:	ATTP-A33																
Title:	Apache-AH64E 2 x MPRV-Response-Model																
Date Issued:	09 11 2023																
Supersedes:	27 08 2021 - Apache-AH64D																
Review Date:	01 11 2028																
Stakeholders:	<table><tr><td>DFR HQ</td><td>✓</td><td>Capita Fire and Rescue</td><td>✓</td></tr><tr><td>RN Aircraft Handler</td><td>✓</td><td>RAF Fire and Rescue</td><td>✓</td></tr><tr><td>DFRS LEC</td><td>✓</td><td>Other FRS Providers¹</td><td>✓</td></tr><tr><td>DFRS (Retained Officers)</td><td></td><td>DFRS (USVF)</td><td></td></tr></table>	DFR HQ	✓	Capita Fire and Rescue	✓	RN Aircraft Handler	✓	RAF Fire and Rescue	✓	DFRS LEC	✓	Other FRS Providers ¹	✓	DFRS (Retained Officers)		DFRS (USVF)	
DFR HQ	✓	Capita Fire and Rescue	✓														
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																
Sponsor Details:	Defence Fire & Rescue HQ Bldg 400/1/7 IDL 412 Monxton Road Andover Hampshire SP11 8HJ																
Contact:	DFR-HQOCD@mod.gov.uk																

Conditions of Release

1. This information is Crown Copyright and the intellectual property rights for this publication belong exclusively to the Ministry of Defence (MOD). No material or information contained in this publication should be reproduced, stored in a retrieval system or transmitted in any form outside MOD establishments except as authorised by both the sponsor and the MOD where appropriate.
2. This information is released by the United Kingdom Government to a recipient Government for defence purposes only. It may be disclosed only within the Defence Department of a recipient Government, except as otherwise authorised by the MOD.
3. This information may be subject to privately owned rights.

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

Page 2

TTP 2 - Engine Compartment Fire

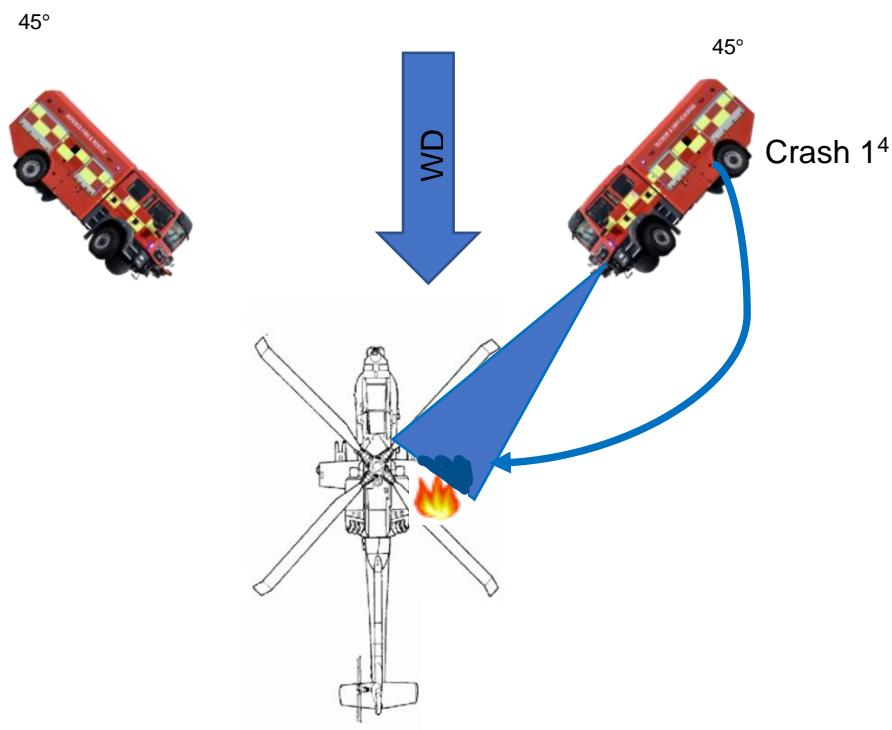
Page 3

Document Control

Page 7

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:

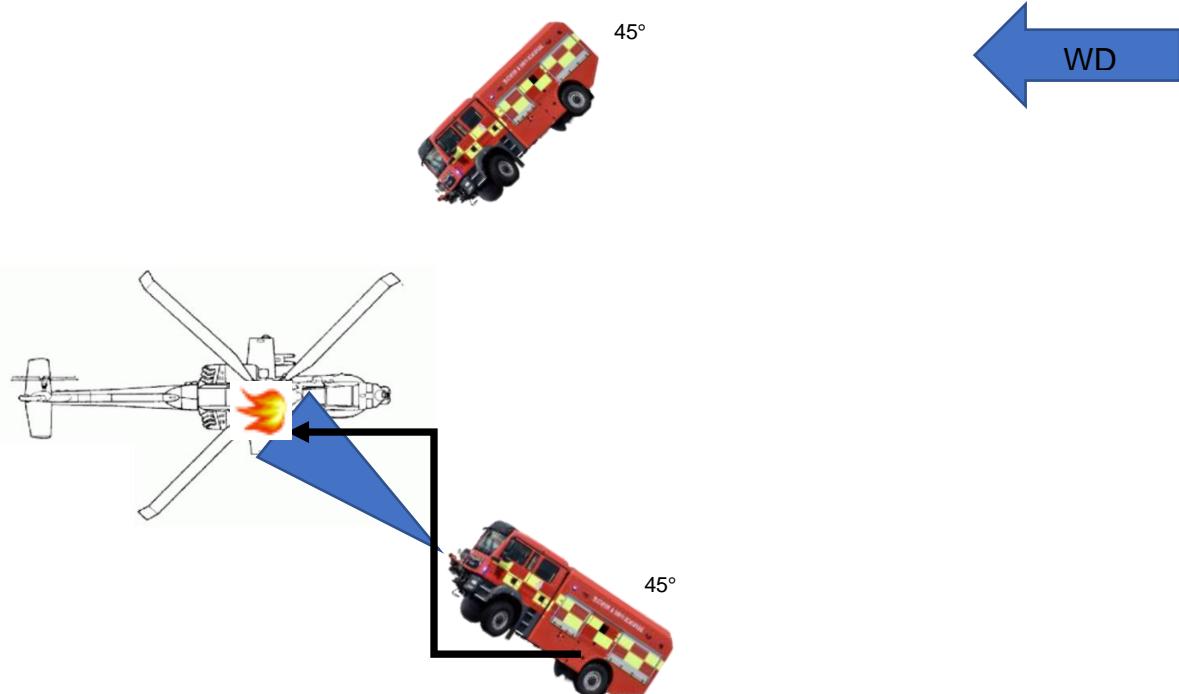
- NOG
- CFR ARFF TOG
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
- CFR Ops Instruction 005 – Low Speed Manoeuvring
- CFR Ops Instruction 006 – MPRV ARFF Positioning Deployment & Task
- CFR Ops Instruction 007 – MPRV Vehicle Operations
- CFR Ops Instruction 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
- 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 report
- 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 the 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 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

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
- Crash 2 firefighters will support as detailed by the IC
- Provide scene safety.

Specific Aircraft Hazards/Procedures:

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

Further Considerations:

- Aircraft position and wreckage
- Leaking fuel
- Aircrew
- 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.

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	