



Ministry
of Defence



Defence Fire and Rescue

Tactics, Techniques & Procedures

Tactics, Techniques & Procedures

Document No: ATTP-A33

Title: Apache AH64E – 1 x MPRV Response V1.2

Date Issued: 09 11 2023

Supersedes: N/A

Review Date: 01 11 2028

Stakeholders:	DFR HQ	✓	Capita Fire and Rescue	✓
	RN Aircraft Handler	✓	RAF Fire and Rescue	✓
	DFRS LEC	✓	Other FRS Providers	✓
	DFRS (Retained Officers)		DFRS (USVF)	

Technical Approved DFR HQ & CFR HQ
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.

VERSION CONTROL HISTORY

Version	Date	Author/Reviewer	Role	Amendments
V1.0	14/10/2023	P McGuinness	CFR Hd of Response	Single MPRV response ATTP Drafted
V1.1	19/10/2023	Trevor Fenn	WM Middle Wallop	CFR Reviewer
V1.2	02/11/2023	Shane Cook	DFR HQ Ops Capability	DFR Reviewer
V1.2	09/11/2023	P McGuinness	CFR Hd of Response	Issued

Defence Fire & Rescue



AIRCRAFT TACTICS TECHNIQUES PROCEDURES (ATTP/A33)

Apache-AH64E

This ATTP applies to the operation of a single MPRV

MPRV (Crash 1)¹

1 x Watch/Crew Manager

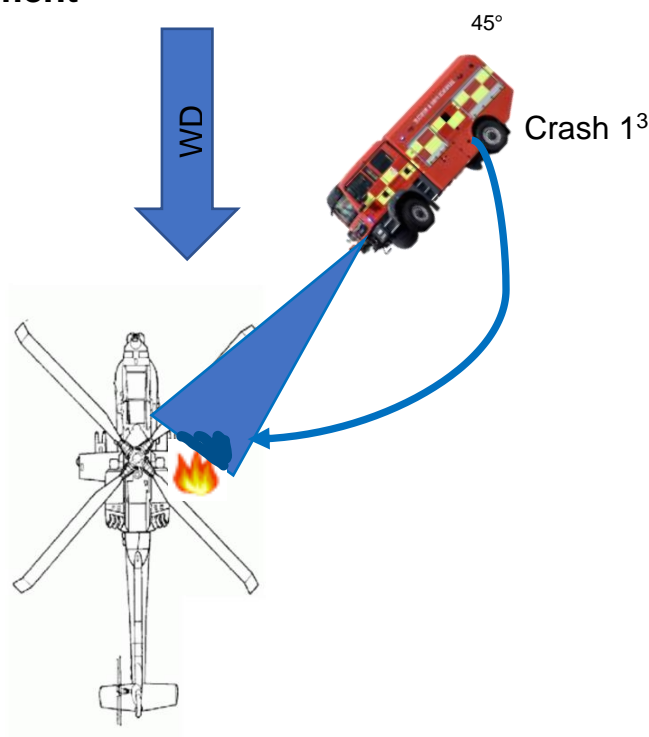
1 x ERD

2 x FFtr (for H3 Vehicle Variant +1)²

Version History	Page 2
TTP1 - External Fire	Page 3
TTP 2 - Engine Compartment Fire	Page 6

TTP 1 – External Fire

Event Plan - Initial deployment



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

² H3 crewing constitute either a 5th seat variant MPRV or an additional SUV to cater for the additional firefighter.

³ 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
- Breathing Apparatus (BA) team to don BA, on air, using Rapid Deployment
- Direct BA crew/triage casualties can they be moved Yes/No

Crash 1 – MPRV Actions*

- Deploy vehicle at minimum of 45-degree angle to aircraft nose (armaments depending)
- 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 if 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.

Specific Aircraft Hazards:

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

Further Considerations:

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

*If operating H3 the additional firefighter will be tasked as detailed

Training:

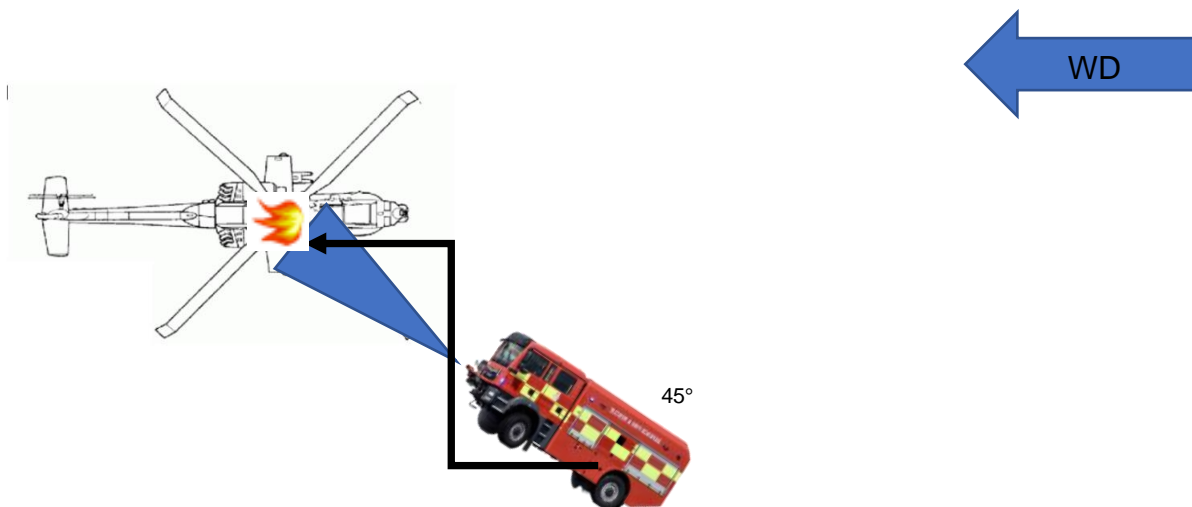
- Aircraft familiarisation
- Deployment exercise(s)
- Redkite CMS
- Aircraft lecture – 6 monthly lesson / familiarisation presentation.

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

TTP 2 – Engine Compartment Fire

Event Plan - Initial Deployment



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 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

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.

Training:

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

*If operating H3 the additional firefighter will be tasked as detailed

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