



TACTICS TECHNIQUES & PROCEDURES

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Airframe: Sikorsky S61N

Supersedes: N/A

Applies to: CFR
TG 7
RN (AH)
DFR

Stakeholders: CFR HQ
DFSR

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Capita Fire & Rescue

AIRCRAFT TACTICS TECHNIQUES PROCEDURES (ATTP/A45)

SIKORSKY S61 N

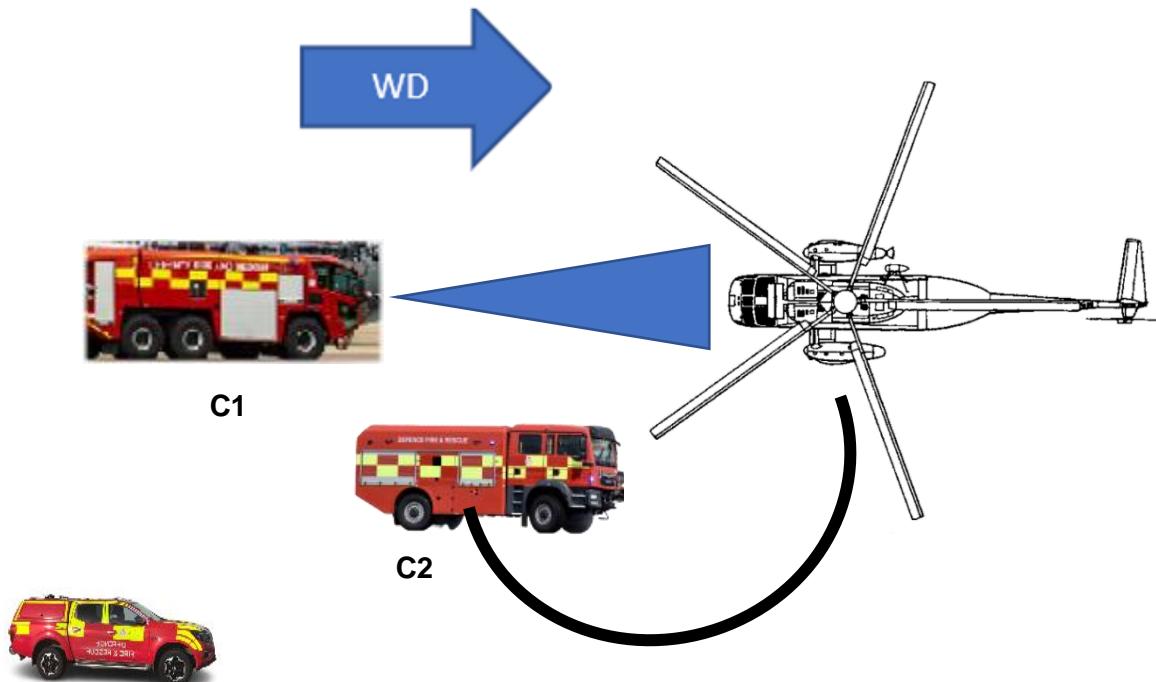
Striker (Crash 1)

MPRV (Crash 2)

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TTP 1 – Engine Fire

Event Plan - Initial Deployment





Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Consider required agencies
- Consider implementing Major Incident Plan
- 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 M/ETHANE report
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Consider water consolidation/replenishment
- Communicate hazards to all crews and agencies
- Instigate JESIP for multi-agency incident

Crash 1 – Striker Actions:

- Deploy vehicle to point of Hazard
- Operate monitor to extinguish flame mass using mass discharge
- Be aware of PAX and assist them with exiting the aircraft
- Direct personnel away from airframe
- Knock off monitor and deploy HRET at earliest opportunity
- Consider use of Hydro-Chem
- Utilise HRET as a covering line
- Consider use of FLIR to check for hotspots and provide cooling as necessary to prevent re-ignition
- Provide scene safety
- Maintain contact with IC

Crash 2 – MPRV Actions:

- Deploy vehicle to rescue side of aircraft
- Be aware of PAX and assist them with exiting the aircraft
- Direct personnel away from airframe
- Utilise monitor if required
- Consider method of entry if PAX remain onboard
- Don BA and utilise Rapid Deployment Procedures if required
- Deploy media with 45mm hose/hose reel as determined by IC DRA and prepare for entry into aircraft
- BA team access aircraft and create survivable conditions
- Confirm/make safe aircraft systems
- Utilise medics to triage casualties on board if survivable conditions are present
- Aid medics in extricating casualties
- Consider use of auxiliary equipment such as TIC
- Maintain contact with IC



Specific Aircraft Hazards:

- Flammable liquids
- Pressurised gases
- Rotor blades

Further Considerations:

- Aircraft position and wreckage
- Leaking fuel
- Passengers
- Other agencies
- Rotor Blades

Supporting Information:

- NOG
- CFR ARFF TOG
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
- CFR Ops Instruction 006 – MPRV ARFF Positioning Deployment & Task
- CFR Ops Instruction 007 – MPRV Vehicle Operations
- CFR Ops Instruction 018 – SUV positioning Deployment & Task
- CFR Ops Instruction 033 – BA Operations
- CFR Op Guidance 001 – 2020 – Aircraft Incidents
- CFR Op Guidance 002 – 2020 - Incidents involving Rotary Wing Aircraft
- CFR Op Guidance 003 – 2020 – Aircraft Fuel Fires
- CFR Op Guidance 006 – 2020 – Aircraft Internal Fires
- CFR Op Guidance 007 – 2020 – Aircraft Engine Fire
- CFR Op Guidance 008 – 2020 – Aircraft Undercarriage Incidents
- MOD Aircraft Crash Hazards Document Set
- NATO STANAG/TO 00-105E-9-Chapter 13 (revision 16)
- MOD Aircraft Crash Hazards Document Set

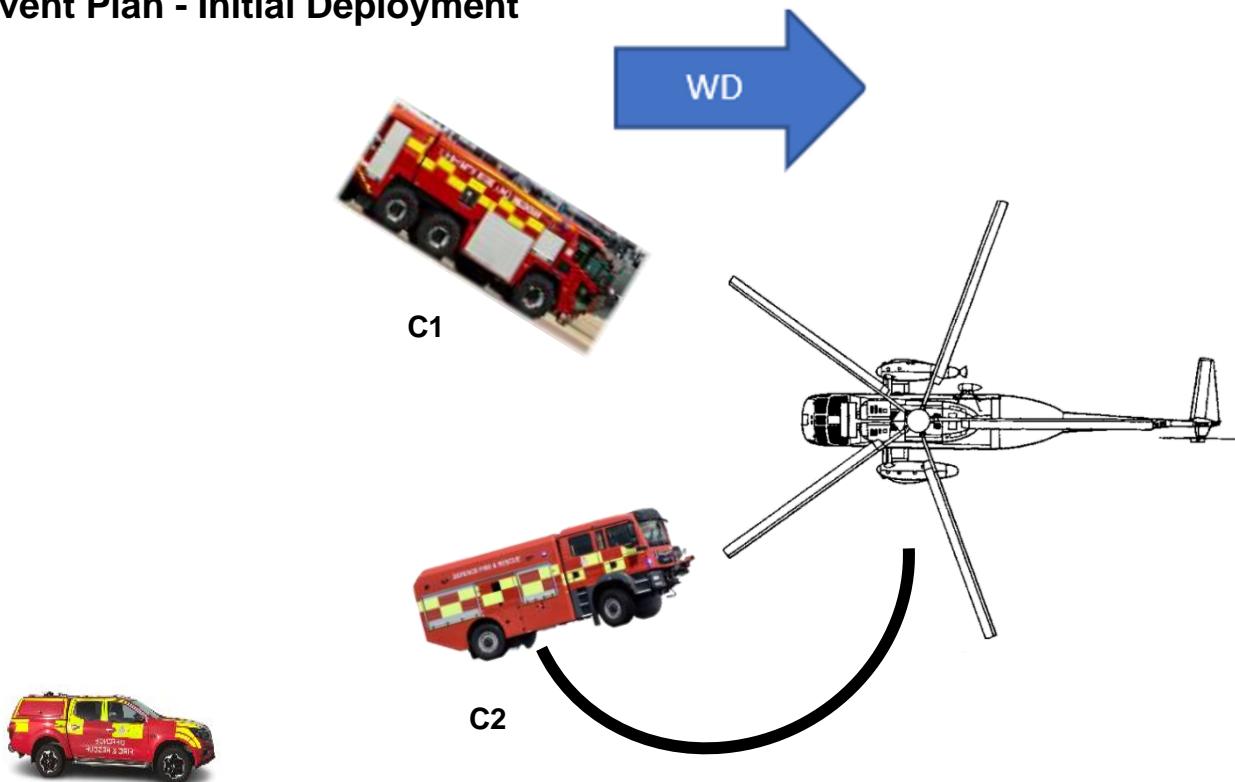
Training:

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



TTP 2 – Wheel Assembly Incidents

Event Plan - Initial Deployment



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 Major Incident Plan
- 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 M/ETHANE report
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Consider water consolidation/replenishment
- Communicate hazards to all crews and agencies
- Instigate JESIP for multi-agency incident



Crash 1 – Striker Actions:

- Deploy vehicle to point of Hazard
- Be prepared to operate HRET
- Be aware of PAX and assist them with exiting the aircraft
- Direct personnel away from airframe
- Knock off monitor and deploy HRET at earliest opportunity (If utilised)
- Consider use of Hydro-Chem
- Utilise HRET as a covering line
- Consider use of FLIR to check for hotspots and provide cooling as necessary to prevent re-ignition
- Provide scene safety
- Maintain contact with IC

Crash 2 – MPRV Actions:

- Deploy vehicle to rescue side of aircraft
- Be aware of PAX and assist them with exiting the aircraft
- Direct personnel away from airframe
- Utilise monitor if required, consider Dry Powder
- Consider method of entry if PAX remain onboard
- Don BA and utilise Rapid Deployment Procedures if required
- Deploy media with 45mm hose/hose reel as determined by IC DRA and prepare for entry into aircraft
- BA team access aircraft and create survivable conditions
- Confirm/make safe aircraft systems
- Utilise medics to triage casualties on board if survivable conditions are present
- Aid medics in extricating casualties
- Consider use of auxiliary equipment such as TIC
- Maintain contact with IC

Specific Aircraft Hazards/Procedures:

- Rotors
- Flammable liquids
- Flammable/pressurised gases
- Composite Materials
- Inflatable Systems

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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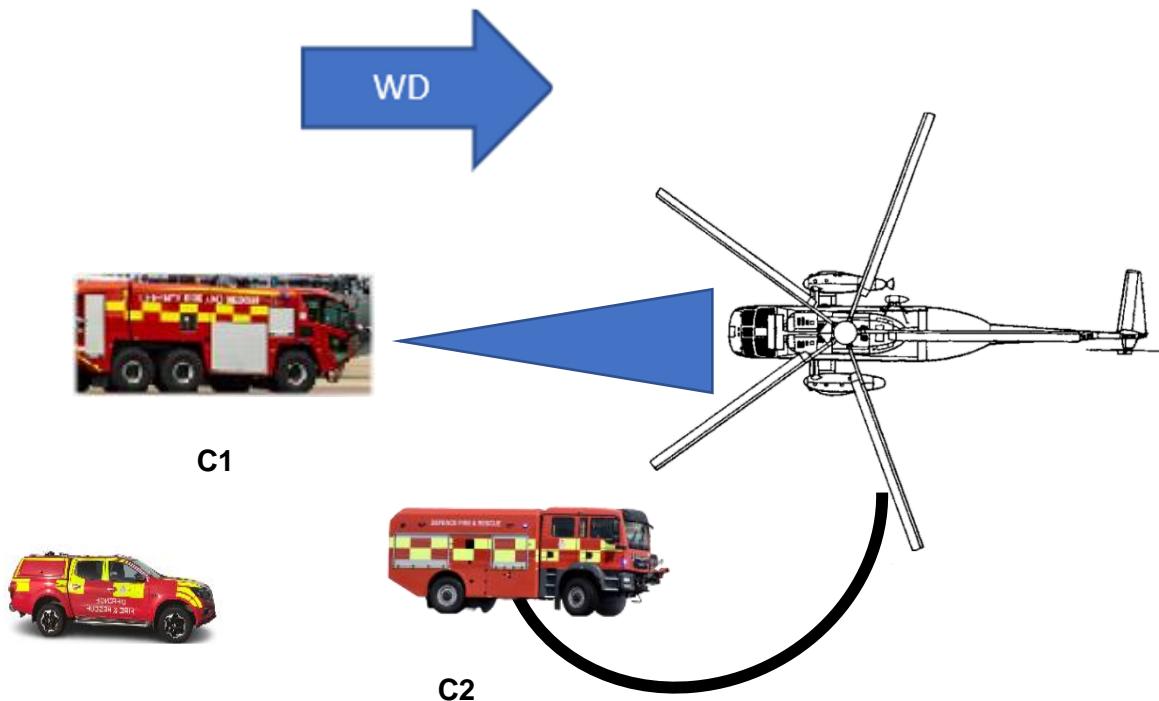
Training:

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



TTP 3 – Internal Fire

Event Plan - Initial Deployment



Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Consider required agencies
- Consider implementing Major Incident Plan
- 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 M/ETHANE report
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Consider water consolidation/replenishment
- Communicate hazards to all crews and agencies
- Instigate JESIP for multi-agency incident



Crash 1 – Striker Actions:

- Deploy vehicle to point of Hazard
- Operate monitor to extinguish flame mass using mass discharge
- Be aware of PAX and assist them with exiting the aircraft
- Direct personnel away from airframe
- Knock off monitor and deploy HRET at earliest opportunity
- Consider use of Hydro-Chem
- Utilise HRET as a covering line
- Consider use of FLIR to check for hotspots and provide cooling as necessary to prevent re-ignition
- Provide scene safety
- Maintain contact with IC

Crash 2 – MPRV Actions:

- Deploy vehicle to rescue side of aircraft
- Be aware of PAX and assist them with exiting the aircraft
- Direct personnel away from airframe
- Consider method of entry if PAX remain on board
- Utilise monitor if required
- Don BA and utilise Rapid Deployment Procedures if required
- Deploy media with 45mm hose/hose reel as determined by IC DRA
- Consider use of handheld extinguisher
- BA team access aircraft and create survivable conditions
- Confirm/make safe aircraft systems
- Utilise medics to triage casualties on board if survivable conditions are present
- Aid medics in extricating casualties
- Consider use of auxiliary equipment such as TIC
- Maintain contact with IC

Specific Aircraft Hazards/Procedures:

- Rotors
- Flammable liquids
- Flammable/pressurised gases
- Composite Materials
- Inflatable Systems

Further Considerations:

- Aircraft position and wreckage
- Leaking fuel
- Passengers
- Other agencies.
- Internal lighting
- Hydraulic Ventilation

Supporting Information:

- NOG
- CFR ARFF TOG



- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
- CFR Ops Instruction 006 – MPRV ARFF Positioning Deployment & Task
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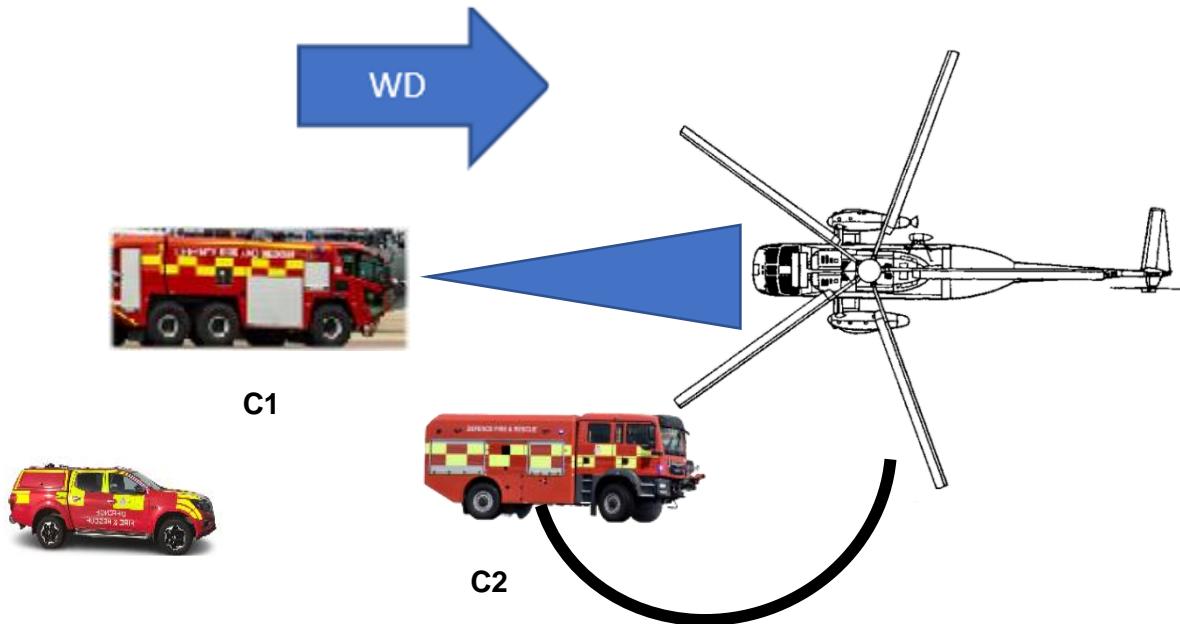
Training:

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



TTP 4 – External Fire

Event Plan - Initial Deployment



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 Major Incident Plan
- 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 M/ETHANE report
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Consider water consolidation/replenishment
- Communicate hazards to all crews and agencies
- Instigate JESIP for multi-agency incident



Crash 1 – Striker Actions:

- Deploy vehicle to point of Hazard
- Operate monitor to extinguish flame mass using mass discharge
- Be aware of PAX and assist them with exiting the aircraft
- Direct personnel away from airframe
- Knock off monitor and deploy HRET at earliest opportunity
- Consider use of Hydro-Chem
- Utilise HRET as a covering line
- Consider use of FLIR to check for hotspots and provide cooling as necessary to prevent re-ignition
- Provide scene safety
- Maintain contact with IC

Crash 2 – MPRV Actions:

- Deploy vehicle to rescue side of aircraft
- Be aware of PAX and assist them with exiting the aircraft
- Direct personnel away from airframe
- Utilise monitor if required
- Consider method of entry if PAX remain onboard
- Don BA and utilise Rapid Deployment Procedures if required
- Deploy media with 45mm hose/hose reel as determined by IC DRA and prepare for entry into aircraft (If Required)
- BA team access aircraft and create survivable conditions if required
- Confirm/make safe aircraft systems
- Utilise medics to triage casualties on board if survivable conditions are present
- Aid medics in extricating casualties
- Consider use of auxiliary equipment such as TIC
- Maintain contact with IC

Specific Aircraft Hazards/Procedures:

- Rotors
- Flammable liquids
- Flammable/pressurised gases
- Composite Materials
- Inflatable Systems

Further Considerations:

- Aircraft position and wreckage
- Leaking fuel
- Passengers
- Other agencies
- The priority should be to engage in offensive firefighting actions prior to engaging pump & roll



Supporting Information:

- NOG
- CFR ARFF TOG
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
- CFR Ops Instruction 006 – MPRV ARFF Positioning Deployment & Task
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- MOD Aircraft Crash Hazards Document Set.

Training:

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

Document Control

Version	Date	Author	Role/Name	Status	Changes
V0.1	10/12/2021	S Ash	Sgt	Draft	