



Ministry
of Defence



Defence Fire and Rescue Tactics Techniques & Procedures

Operational Instruction

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|----------------------|--------------------------|---|----------------------------------|---|
| Stakeholders: | 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 Defence Fire and Rescue (CFR HQ)
Operations Committee

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



AIRCRAFT TACTICS TECHNIQUES PROCEDURES

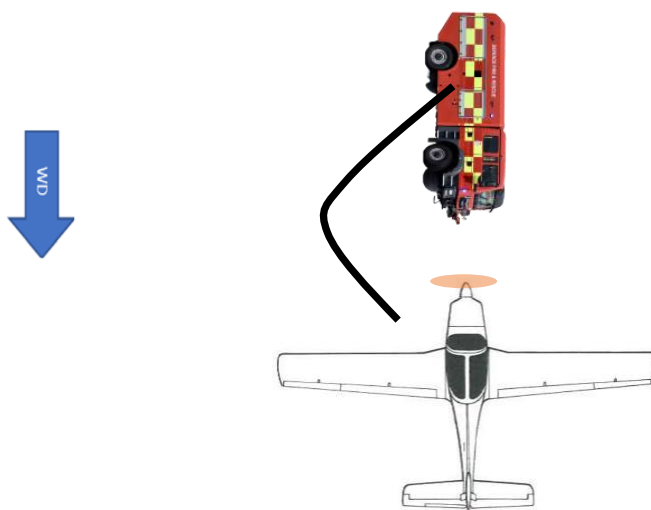
Grob Tutor

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:

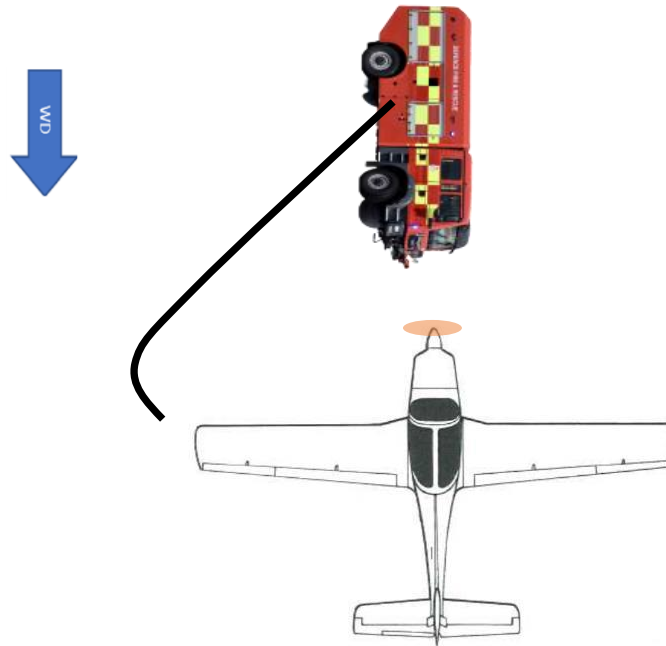
- NOG
- Op Guidance 001 - Aircraft Incidents
- Op Guidance 003 - Aircraft Fuel Fires
- Op Guidance 005 - Incidents Involving Small Aircraft
- Op Guidance 007 - Aircraft Engine Fires
- Ops Instruction 002 - CFR HSE Policy
- Ops Instruction 005 - Low Speed Manoeuvres
- CFR Ops Instruction 006 - MPRV ARFF Positioning Deployment & Task
- CFR Ops Instruction 007 - MPRV Vehicle Operations
- Ops Instruction 033 - BA Operations
- MAA Regulatory Publication Document Set
- AQRC A27.

Training:

- Aircraft familiarization – Babcock Engineers
- 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:

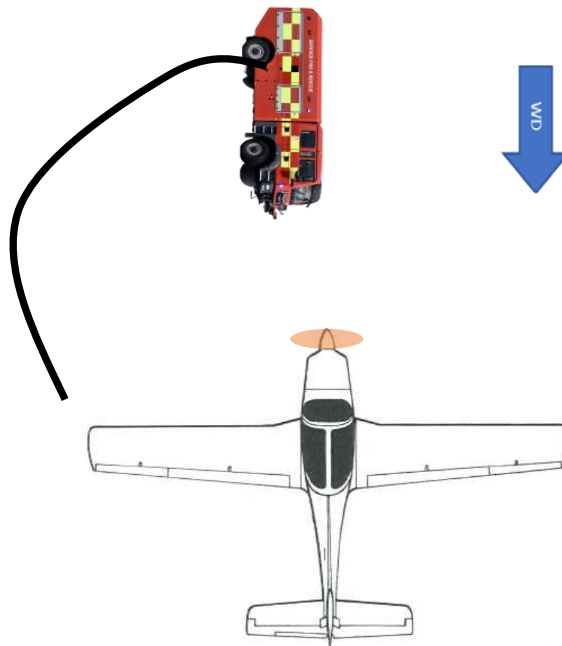
- NOG
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- CFR Ops Instruction 007 - MPRV Vehicle Operations
- Ops Instruction 033 - BA Operations
- MAA Regulatory Publication Document Set
- AQRC A27.

Training:

- Aircraft familiarization – Babcock Engineers/Information posters
- 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:

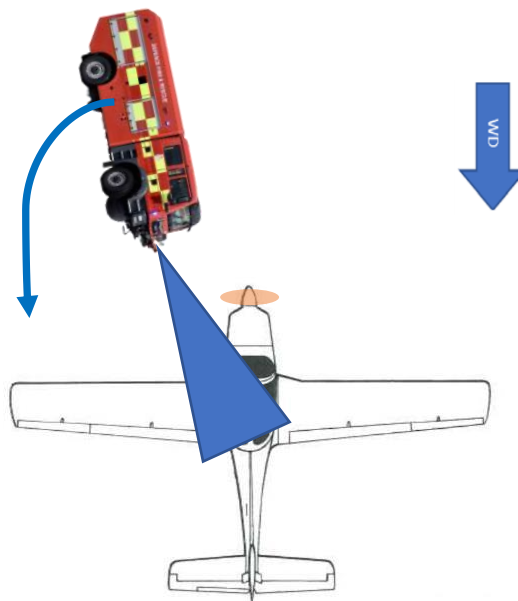
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- CFR Ops Instruction 007 - MPRV Vehicle Operations
- Ops Instruction 033 - BA Operations
- MAA Regulatory Publication Document Set
- AQRC A27.

Training:

- Aircraft familiarization – Babcock Engineers/Information posters
- 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:

- NOG
- Op Guidance 001 - Aircraft Incidents
- Op Guidance 003 - Aircraft Fuel Fires
- Op Guidance 005 - Incidents Involving Small Aircraft
- Op Guidance 008 - Aircraft Undercarriage Incidents
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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 A27.

Training:

- Aircraft familiarization
- Deployment exercise(s)
- Redkite CMS
- Aircraft lecture – 6 monthly lesson / familiarization presentation.
- Aircraft familiarization – Sqn/Babcock engineers
- Deployment exercise(s)
- Aircraft lecture – 6 monthly lesson / familiarization presentation
- Redkite CMS.

Document Control

| Version | Date | Author | Role | Status | Changes |
|---------|------------|--------------|----------------|---------|------------------------|
| V1.0 | 15/03/2021 | P Gallagher | Trg Mgr (NHT) | Initial | |
| V1.1 | 01/11/2023 | P McGuinness | Hd of Response | Review | New Cover, Tabs, Badge |
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