

## TACTICS TECHNIQUES & PROCEDURES

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**Stakeholders:** CFR HQ  
DFSR



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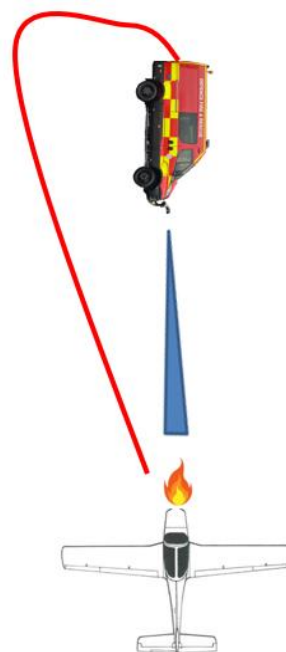


 <b>Capita Fire &amp; Rescue</b>		
<b>AIRCRAFT TACTICS TECHNIQUES PROCEDURES</b>		
<b>GROB 115E TUTOR: (ICAO CATEGORY 1 and 2 aerodromes only)</b>		
<b>RRV (Crash 1) RAF Cosford – 3 ARFF personnel</b>		

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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 MIP
- Direct firefighting actions
- Be aware of PAX exiting aircraft
- Direct rescue crew
- Direct all operational control and implement ICS
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Consider water consolidation/replenishment.

## Crash 1 - RRV Actions:

- Deploy vehicle to nose of aircraft
- Be aware of PAX exiting the aircraft
- Be prepared to operate monitor if required
- Consider use of Dry Powder if required
- Consider method of entry if PAX remain on board
- Access aircraft make safe aircraft systems, and create survivable conditions if required
- Don BA, utilise Rapid Deployment Procedures/single wearer policy following IC's DRA
- Deploy 2 x 45mm lengths of hose, one line with Akron branch/dry powder for engine fire at IC's direction
- Utilise Medics to triage casualties onboard if safe and required
- Aid Medics in extricating casualties.

## Specific Aircraft Hazards:

- Flammable Liquids (fuel, engine oil, hydraulic oil)
- Propeller
- Batteries
- Pressurised gases
- Flammable solids
- Explosive Material
- Carbon composites
- Dimethylformamide – strobe power packs at wing tips and cockpit floor.

## Further Considerations:

- Aircraft position and access
- Leaking fuels and oils
- Evacuated passengers
- Other agencies.

## Supporting Information:

- NOG
- DFR BA Operations
- CFR ARFF TOG
- CFR Op Guidance 001 – 2020 – Aircraft Incidents



- CFR Op Guidance 003 – 2020 – Aircraft Fuel Fires
- CFR Op Guidance 005 – 2020 – Incidents Involving Small Aircraft
- CFR Op Guidance 007 – 2020 – Aircraft Engine Fires
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
- CFR Ops Instruction 005 – Low Speed Maneuvering
- Ops Instruction 024 – RRV ARFF Vehicle Operations
- Ops Instruction 026 – RRV ARFF Positioning Deployment Task.

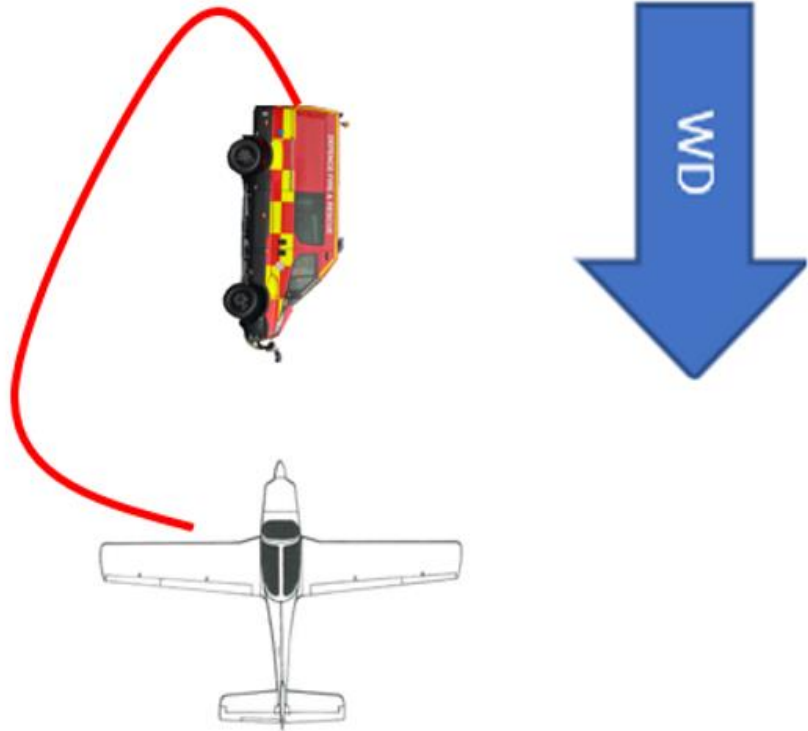
### **Training:**

- Aircraft familiarization – Babcock Engineers
- Aircraft Engine shut down – QRC and familiarization
- Deployment exercise(s)
- Aircraft lecture – 6 monthly lesson / familiarization presentation
- Redkite CMS.



## TTP 2 – Wheel Assembly Incidents (collapsed)

### Event Plan - Initial deployment



### Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Consider required agencies
- Consider implementing MIP
- Direct firefighting actions
- Be aware of PAX exiting aircraft
- Direct rescue crew
- Direct all operational control and implement ICS
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Consider water consolidation/replenishment.



## Crash 1 - RRV Actions:

- Deploy vehicle upwind in fire situation or to appropriate side of aircraft avoiding any debris
- Deploy 2 x 45mm hose, one line with Akron branch for covering jet if required as directed by IC
- Consider use of Dry Powder if required
- Don BA, utilise Rapid Deployment Procedures/single wearer policy following IC's DRA if required
- Gain Access to aircraft and confirm/make safe aircraft systems and create survivable conditions if required
- Aid Pax if required
- Utilise Medics to triage casualties on board if survivable conditions are present
- Aid Medics in extricating casualties.

## Specific Aircraft Hazards/Procedures:

- Flammable Liquids (fuel, engine oil, hydraulic oil)
- Propeller
- Batteries
- Pressurised gases
- Flammable solids
- Explosive Material
- Carbon composites
- Dimethylformamide – strobe power packs at wing tips and cockpit floor.

## 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
- DFR BA Operations
- CFR ARFF TOG
- CFR Op Guidance 001 – 2020 – Aircraft Incidents
- CFR Op Guidance 003 – 2020 – Aircraft Fuel Fires
- CFR Op Guidance 005 – 2020 – Incidents Involving Small Aircraft
- CFR Op Guidance 007 – 2020 – Aircraft Engine Fires
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
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- Ops Instruction 024 – RRV ARFF Vehicle Operations
- Ops Instruction 026 – RRV ARFF Positioning Deployment Task.

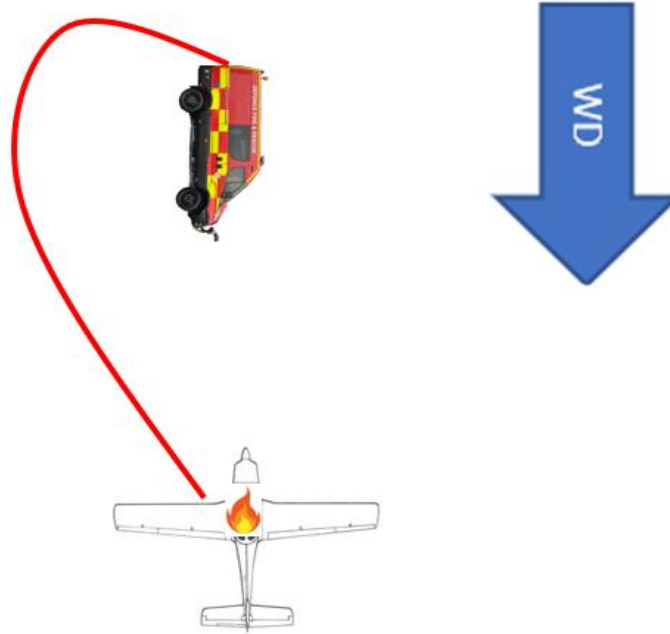


### **Training:**

- Aircraft familiarization – Babcock Engineers/Information posters
- Deployment exercise(s)
- Aircraft lecture – 6 monthly lesson / familiarization presentation
- Redkite CMS.

## TTP 3 – Internal

### Event Plan - Initial Deployment



### Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Consider required agencies
- Consider implementing MIP
- Direct firefighting actions
- Be aware of PAX exiting aircraft
- Direct rescue crew
- Direct all operational control and implement ICS
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Consider water consolidation/replenishment.

### Crash 1 - RRV 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 and create survivable conditions
- Don BA and utilise Rapid Deployment Procedures
- Deploy 2 x 45mm lengths of hose, one line with Akron branch
- Consider use of Dry Powder if required
- Make access to aircraft and create survivable conditions by extinguishing fire and





- ventilating
- Remove any casualties from immediate danger
- Aid Medics in extricating casualties.

### **Specific Aircraft Hazards/Procedures:**

- Flammable Liquids (fuel, engine oil, hydraulic oil)
- Propeller
- Batteries
- Pressurised gases
- Flammable solids
- Explosive Material
- Carbon composites
- Dimethylformamide – strobe power packs at wing tips and cockpit floor.

### **Further Considerations:**

- Aircraft position
- Bystanders
- Leaking fuel, water course
- Passengers
- Other agencies.

### **Supporting Information:**

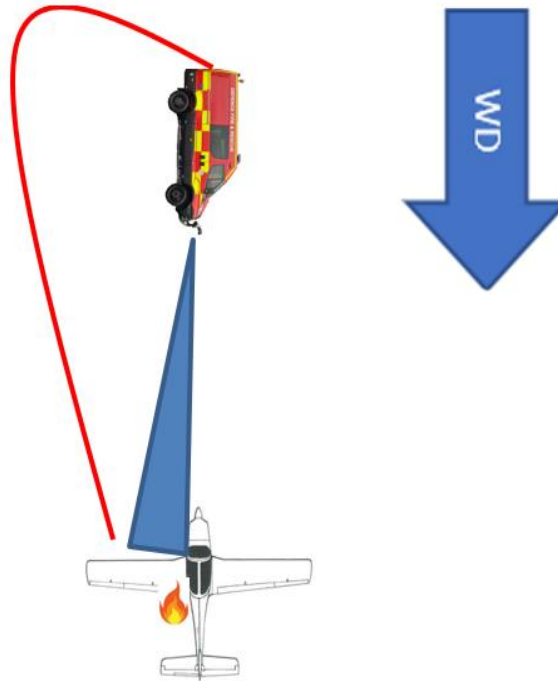
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- CFR Ops Instruction 005 – Low Speed Maneuvering
- Ops Instruction 024 – RRV ARFF Vehicle Operations
- Ops Instruction 026 – RRV ARFF Positioning Deployment Task.

### **Training:**

- Aircraft familiarization – Babcock Engineers/Information posters
- Deployment exercise(s)
- Aircraft lecture – 6 monthly lesson / familiarization presentation
- Redkite CMS.

## TTP 4 - External Fire

### Event Plan – Initial Deployment



### 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 RRV Monitor
- Consider implementing the AAIRP
- Direct firefighting actions
- Direct rescue crew and maintain operational control, safe operations, and scene safety, implement ICS
- Consider water consolidation/replenishment
- Consider and direct other required agencies.

### Crash 1 - RRV 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
- Make access to aircraft crew and confirm survivable conditions if required
- Don BA and utilise Rapid board procedures if required
- Deploy 2 x 45mm lengths of hose, one line with Akron branch
- Consider use of Dry Powder if required



- Utilise Medics to triage casualties on board if survivable conditions are present
- Aid Medics in extricating casualties.

### Specific Aircraft Hazards/Procedures:

- Flammable Liquids (fuel, engine oil, hydraulic oil)
- Propeller
- Batteries
- Pressurised gases
- Flammable solids
- Explosive Material
- Carbon composites
- Dimethylformamide – strobe power packs at wing tips and cockpit floor.

### Further Considerations:

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

### Supporting Information:

- NOG
- DFR BA Operations
- CFR ARFF TOG
- CFR Op Guidance 001 – 2020 – Aircraft Incidents
- CFR Op Guidance 003 – 2020 – Aircraft Fuel Fires
- CFR Op Guidance 005 – 2020 – Incidents Involving Small Aircraft
- CFR Op Guidance 007 – 2020 – Aircraft Engine Fires
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
- CFR Ops Instruction 005 – Low Speed Maneuvering
- Ops Instruction 024 – RRV ARFF Vehicle Operations
- Ops Instruction 026 – RRV ARFF Positioning Deployment Task.

### Training:

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

Document Control					
Version	Date	Author	Role/Name	Status	Changes
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