



Ministry  
of Defence



## Defence Fire and Rescue

### Tactics, Techniques & Procedures

#### Tactics, Techniques & Procedures

**Document No:** ATTP-A52

**Title:** Dassault Falcon 900 LX (Military Designation - Envoy IV)

**Date Issued:** 16 09 2022

**Supersedes:** XXX

**Review Date:** 02 02 2024

|                      |                          |   |                        |   |
|----------------------|--------------------------|---|------------------------|---|
| <b>Stakeholders:</b> | 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  
Operations Committee

**Sponsor Details:**  
Alex Clark  
Capita Fire & Rescue (CFR)  
HQ Reading Bridge House  
1 st Floor  
George Street  
Reading  
RG1 8PJ

**Contact:** [philip.mcguinness@capita.com](mailto:philip.mcguinness@capita.com)

#### 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 | Amendment | Brief Details     | Amended By      | Date       |
|---------|-----------|-------------------|-----------------|------------|
| V1.0    | Initial   | Draft for Comment | M Richardson    | 23/07/2022 |
| V1.1    | N/A       | Publication       | Phil McGuinness | 16/09/2022 |
|         |           |                   |                 |            |
|         |           |                   |                 |            |
|         |           |                   |                 |            |

## Defence Fire & Rescue



### AIRCRAFT TACTICS TECHNIQUES PROCEDURES

#### Dassault Falcon 900 LX (Military Designation - Envoy IV)

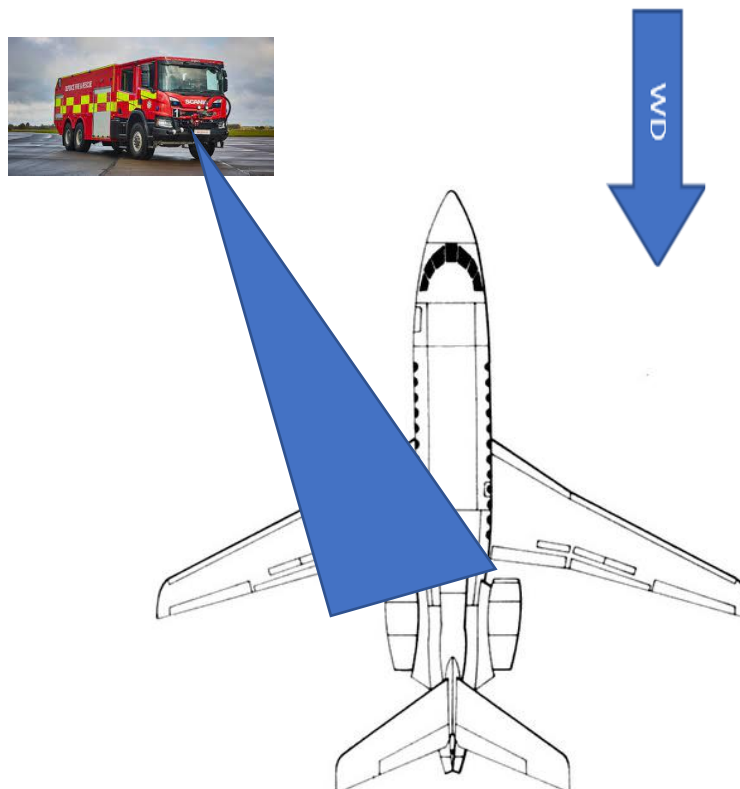
MPRV

SUV (If Resourced)

|                                  |         |
|----------------------------------|---------|
| Document Control                 | Page 2  |
| TTP - 1 Engine Fire              | Page 3  |
| TTP - 2 Wheel Assembly Incidents | Page 6  |
| TTP - 3 Internal Fire            | Page 8  |
| TTP - 4 External Fire            | Page 10 |

### TTP 1 - Engine Fire

**Event Plan - Initial Deployment:** Up Wind, Position on the affected engine, monitors to protect critical area.



**Incident Commander Considerations:**

- Conduct and complete DRA
- Declare Tactical Mode
- Consider required agencies
- Consider implementing MIP and PEMS
- Direct firefighting actions
- Consider contacting aircraft commander via ATC or 121.6 if available
- Be aware of PAX around and exiting aircraft
- Direct rescue crew
- Direct all operational control and implement ICS
- Provide METHANE report
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Consider water consolidation/replenishment.

**Crash 1 - MPRV Actions:**

- Deploy vehicle to rescue side of aircraft
- Be aware of PAX exiting the aircraft
- Be prepared to operate monitor
- Consider method of entry if PAX remain on board
- Don BA and utilise Initial Deployment Procedures
- Deploy sufficient lengths of hose (45mm) and prepare for entry into aircraft
- BA team access aircraft and create survivable conditions
- Consider use of TIC
- Confirm/make safe aircraft systems
- Utilise Medics to triage casualties on board if survivable conditions are present
- Aid Medics in extricating casualties.

**Specific Aircraft Hazards - (Make use of AQRC):**

- Flammable liquids
- Pressurised gases.

**Further Considerations:**

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

### **Supporting Information:**

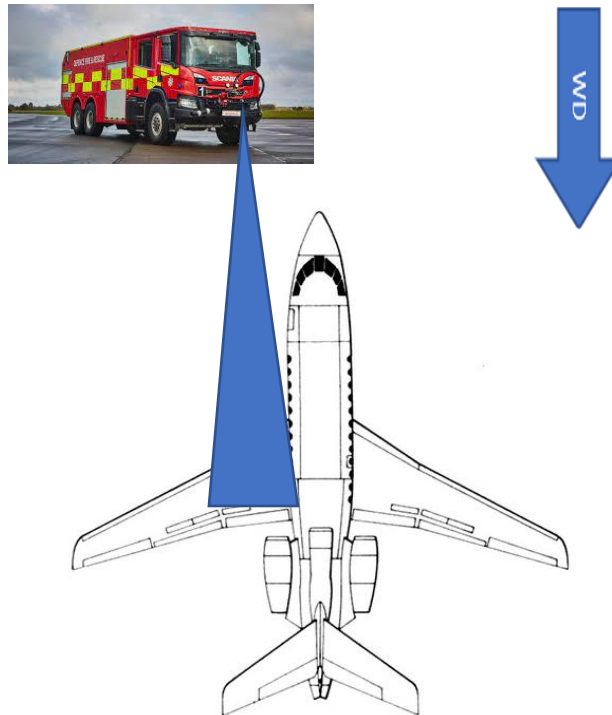
- NOG
- DFR BA Operations
- CFR ARFF TOG
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
- CFR Ops Instruction 005 – Low Speed Manoeuvring
- CFR Ops Instruction 006 – MPRV ARFF Positioning Deployment & Task
- CFR Ops Instruction 007 – MPRV Vehicle Operations
- CFR Op Guidance 001 – Aircraft Incidents
- CFR Op Guidance 003 – Aircraft Fuel Fires
- CFR Op Guidance 005 – Incidents Involving Small Aircraft
- CFR Op Guidance 006 – Aircraft Internal Fires
- CFR Op Guidance 007 – Aircraft Engine Fire
  
- CFR Op Guidance 008 – Aircraft Undercarriage Incidents
- MOD Aircraft Crash Hazards Document Set
- NATO STANAG/TO 00-105E-9-Chapter 13 (revision 16).

### **Training:**

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

## TTP2 - Wheel Assembly Incidents

**Event Plan - Initial Deployment:** Up Wind, Position on the affected area, monitors to protect critical area.



### 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 MIP
- 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 METHANE report
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Consider water consolidation/replenishment.

### Crash 1 - MPRV Actions:

- Deploy vehicle to rescue side of aircraft.
- Be aware of PAX exiting the aircraft
- Consider discharge from Monitor
- Consider method of entry if PAX remain on board
- Don BA and utilise Rapid Deployment Procedures
- Deploy sufficient lengths of hose (45mm)
- Make access to aircraft and confirm survivable conditions
- Consider use of TIC
- Utilise Medics to triage casualties on board if survivable conditions are present
- Aid Medics in extricating casualties.

- Select Firefighting media dependent if fire is present and to what extent
- Consider use of secondary agent
- Carry out check of area affected by fire (if present) to confirm area is safe
- Cool if required
- Provide scene safety.

### **Specific Aircraft Hazards (Make use of the AQRC):**

- Flammable liquids
- Pressurised gases.

### **Further Considerations:**

- Aircraft position and wreckage
- Leaking fuel
- Passengers
- Other agencies
- The actions during this incident will be dependent on the following conditions:
  - ☐ Is the wheel assembly on fire?
  - ☐ Is the fire confined to one area or is escalation likely?

### **Supporting Information:**

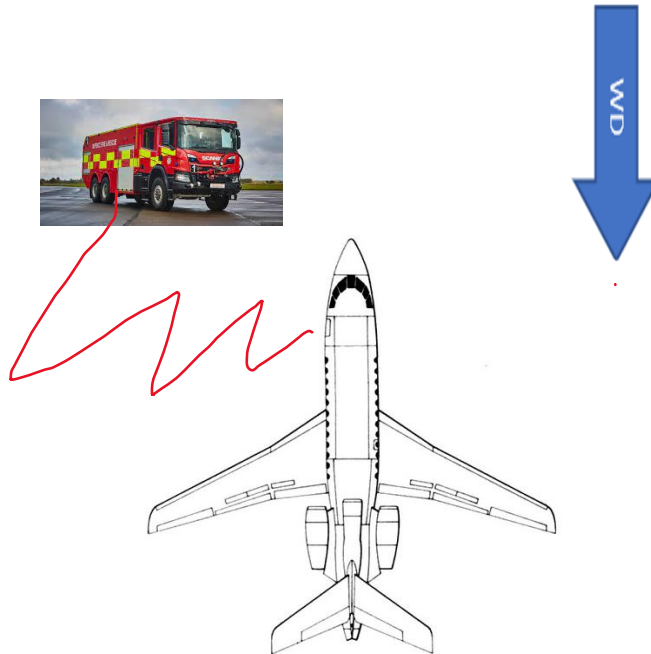
- NOG
- DFR BA Operations
- CFR ARFF TOG
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
- CFR Ops Instruction 005 – Low Speed Manoeuvring
- CFR Ops Instruction 006 – MPRV ARFF Positioning Deployment & Task
- CFR Ops Instruction 007 – MPRV Vehicle Operations
- CFR Op Guidance 001 – Aircraft Incidents
- CFR Op Guidance 003 – Aircraft Fuel Fires
- CFR Op Guidance 005 – Incidents Involving Small Aircraft
- CFR Op Guidance 006 – Aircraft Internal Fires
- CFR Op Guidance 007 – Aircraft Engine Fire
- CFR Op Guidance 008 – Aircraft Undercarriage Incidents
- MOD Aircraft Crash Hazards Document Set
- NATO STANAG/TO 00-105E-9-Chapter 13 (revision 16).

### **Training:**

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

## TTP 3 – Internal Fire

**Event Plan - Initial Deployment:** Up Wind, Position Port side for Rescue 45mm hose for entry.



### Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Consider required agencies
- Consider implementing MIP and PEMS
- Direct firefighting actions
- Be aware of PAX exiting aircraft
- Consider contacting aircraft commander via ATC or 121.6 if available
- Direct rescue crew
- Direct all operational control and implement ICS
- Provide METHANE report
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Water consolidation/replenishment.

### Crash 1 - MPRV Actions

- Deploy vehicle to rescue side of aircraft
- Be aware of PAX exiting the aircraft
- Consider method of entry if PAX remain on board
- Don BA and utilise Initial Deployment Procedures
- Deploy sufficient lengths of hose (45mm)
- Make access to aircraft and create survivable conditions by extinguishing fire & ventilating
- Consider use of TIC
- Remove any casualties from immediate danger
- Utilise Medics to triage casualties on board if survivable conditions are present
- Aid Medics in extricating casualties.
- Provide scene safety.



### **Specific Aircraft Hazards (Make use of the AQRC):**

- Flammable liquids
- Pressurised gases.

### **Further Considerations:**

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

### **Supporting Information:**

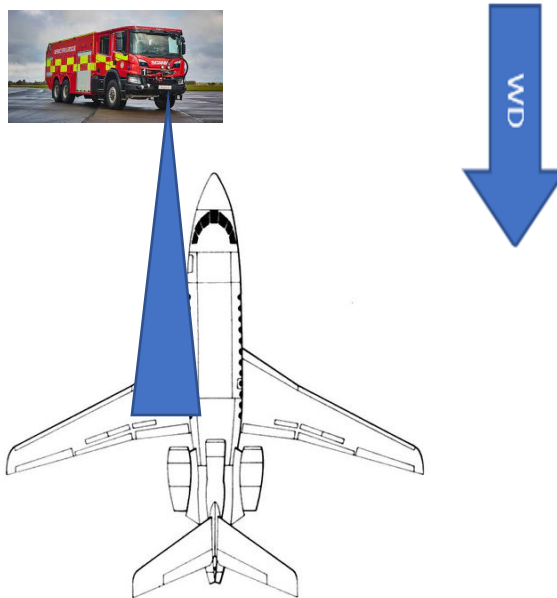
- NOG
- DFR BA Operations
- CFR ARFF TOG
- CFR Ops Instruction 001 – Aircraft Incidents
- CFR Ops Instruction 002 – CFR HSE Policy
- CFR Ops Instruction 005 – Low Speed Manoeuvring
- CFR Ops Instruction 006 – MPRV ARFF Positioning Deployment & Task
- CFR Ops Instruction 007 – MPRV Vehicle Operations
- CFR Op Guidance 001 – Aircraft Incidents
- CFR Op Guidance 003 – Aircraft Fuel Fires
- CFR Op Guidance 005 – Incidents Involving Small Aircraft
- CFR Op Guidance 006 – Aircraft Internal Fires
- CFR Op Guidance 007 – Aircraft Engine Fire
- CFR Op Guidance 008 – Aircraft Undercarriage Incidents
- CFR Op Guidance 009 – Incidents Involving Cargo - Large Aircraft
- MOD Aircraft Crash Hazards Document Set
- NATO STANAG/TO 00-105E-9-Chapter 13 (revision 16)
- BAE DOR/146/405.

### **Training:**

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

## TTP 4 - External Fire

**Event Plan - Initial Deployment:** Up Wind, Position on the affected area, monitors to protect critical area.



### Incident Commander Considerations:

- Conduct and complete DRA
- Declare Tactical Mode
- Consider required agencies
- Consider implementing MIP
- If external fire use the MPRV monitor
- Direct firefighting actions
- Be aware of PAX exiting aircraft
- Consider contacting aircraft commander via ATC or 121.6 if available
- Direct rescue crew
- Direct all operational control and implement ICS
- Provide METHANE report
- Maintain safe operations and ensure scene safety
- Direct other agencies
- Water consolidation/replenishment.

### Crash 1 - MPRV Actions:

- Deploy vehicle to fire side of aircraft
- Consider use of monitor
- 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 sufficient lengths of hose (45mm)
- Make access to aircraft crew and confirm survivable conditions (If required)
- Consider use of TIC,
- Utilise Medics to triage casualties on board if survivable conditions are present
- Aid Medics in extricating casualties.
- Carry out check of area affected by fire to confirm area is safe
- Cool if required
- Provide scene safety.

### **Specific Aircraft Hazards (Make use of the AQRC):**

- Flammable liquids
- Pressurised gases.

### **Further Considerations:**

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

### **Supporting Information:**

- NOG
- DFR BA Operations
- 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 Op Guidance 001 – Aircraft Incidents
- CFR Op Guidance 003 – Aircraft Fuel Fires
- CFR Op Guidance 005 – Incidents Involving Small Aircraft
- CFR Op Guidance 006 – Aircraft Internal Fires
- CFR Op Guidance 007 – Aircraft Engine Fire
- CFR Op Guidance 008 – Aircraft Undercarriage Incidents
- CFR Op Guidance 009 – Incidents Involving Cargo - Large Aircraft
- MOD Aircraft Crash Hazards Document Set
- NATO STANAG/TO 00-105E-9-Chapter 13 (revision 16).

### **Training:**

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