


# VDFP General Aviation Firefighting for Structural Firefighters

**VIRGINIA DEPARTMENT OF FIRE PROGRAMS**  
Aviation Firefighting for Structural Firefighters



Chapter 8  
Incidents on Airport Property

INCIDENTS ON AIRPORT PROPERTY

8-1

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**Learning Objectives**

- List some of the safety concerns at incidents involving airports or aircraft
- List some of the initial actions the incident commander should consider
- List some of the strategic and tactical items to be considered
- Identify who is responsible for scene safety throughout the incident
- Identify who is initially responsible for evidence protection

INCIDENTS ON AIRPORT PROPERTY

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**Introduction**

- This chapter applies the information presented in the prior chapters to three case studies
- The scenarios assume that specialized aircraft rescue fire fighting units are not available

INCIDENTS ON AIRPORT PROPERTY

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Group Exercise - Case 1 – Page 144

- A business jet that has had a nose gear collapse and has skidded off the runway



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INCIDENTS ON AIRPORT PROPERTY

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Group Exercise - Case 1 – Page 144

- A business jet that has had a nose gear collapse and has skidded off the runway

– Response

- Size up the Scene

– “We have a medium size business jet that has a collapsed nose gear. It is in the grass at the departure end of runway 23. There is no visible fire or smoke. The engines are off. At least one exit door is open.”

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INCIDENTS ON AIRPORT PROPERTY

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Group Exercise - Case 1 – Page 144

- Information

– Time of Day - 15:07

– Weather Conditions

- Wind Speed & Direction – Out of the South @ 8 mph
- Visibility – Partly Cloudy
- Precipitation - None

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INCIDENTS ON AIRPORT PROPERTY

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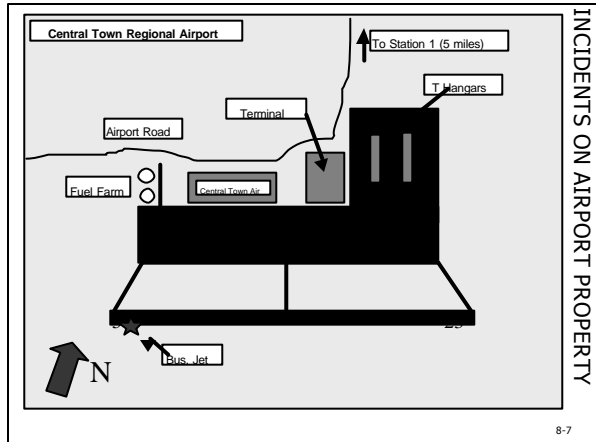
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# VDFP General Aviation Firefighting for Structural Firefighters



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**Group Exercise - Case 1 – Page 144**

- A business jet that has had a nose gear collapse and has skidded off the runway
  - Response
    - Establish Scene Safety
    - Establish Command
    - Determine Strategic Goals
    - Develop a Tactical Plan of Action
    - Determine Required Resources
    - Determine a Staging Area
  - Notifications per the Airport/Aircraft Emergency Plan

INCIDENTS ON AIRPORT PROPERTY

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**Group Exercise - Case 1 – Page 158**

- A business jet that has had a nose gear collapse and has skidded off the runway
  - Conclusion

INCIDENTS ON AIRPORT PROPERTY

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Group Exercise - Case 2 – Page 150

- A fire in a hangar full of aircraft that also houses offices



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INCIDENTS ON AIRPORT PROPERTY

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Group Exercise - Case 2 – Page 150

- A fire in a hangar full of aircraft that also houses offices

- Response

- Size up the Scene

- The first due engine enters the airport at the preplanned access and requests permission from the tower to drive to the affected hangar. Smoke is showing on the north side and people look to be evacuating on the west side. The large main hangar doors are partially opened on both the north and south side.

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INCIDENTS ON AIRPORT PROPERTY

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Group Exercise - Case 2 – Page 150

- Information

- Time of Day - 10:23

- Weather Conditions

- Wind Speed & Direction – Out of the South @ 5 mph
- Visibility – Clear
- Precipitation – None

- Building Construction

- Offices located on the west side of the hangar on both the 1<sup>st</sup> and 2<sup>nd</sup> floors
- Steel Truss Roof with steel support
- No fire protection systems

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INCIDENTS ON AIRPORT PROPERTY

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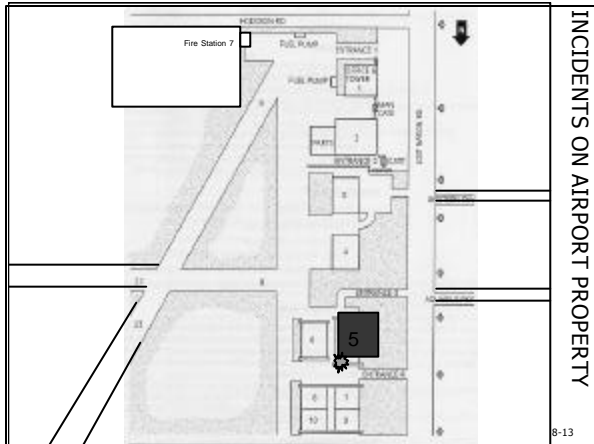
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# VDFP General Aviation Firefighting for Structural Firefighters



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**Group Exercise - Case 2 – Page 150**

- A fire in a hangar full of aircraft that also houses offices
  - Response
    - Establish Scene Safety
    - Establish Command
    - Determine Strategic Goals
    - Develop a Tactical Plan of Action
    - Determine Required Resources
    - Determine a Staging Area
  - Notifications per the Airport/Aircraft Emergency Plan

INCIDENTS ON AIRPORT PROPERTY

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**Group Exercise - Case 2 – Page 155**

- A fire in a hangar full of aircraft that also houses offices
  - Conclusion

INCIDENTS ON AIRPORT PROPERTY

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# VDFP General Aviation Firefighting for Structural Firefighters

## Group Exercise - Case 3 – Page 155

- A single engine aircraft crash on airport property



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INCIDENTS ON AIRPORT PROPERTY

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## Group Exercise - Case 3 – Page 155

- A single engine aircraft crash on airport property
  - Response
    - Size up the scene
      - The first arriving engine approaches the scene, no visible fire or smoke is seen. You see that the aircraft is upside down indicating possible severe trauma to the occupants.

8-17

INCIDENTS ON AIRPORT PROPERTY

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## Group Exercise - Case 3 – Page 155

- Information
  - Time of Day - 15:05
  - Weather Conditions
    - Wind Speed & Direction – Out of the West @ 15 mph
    - Visibility – Clear
    - Precipitation – None

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INCIDENTS ON AIRPORT PROPERTY

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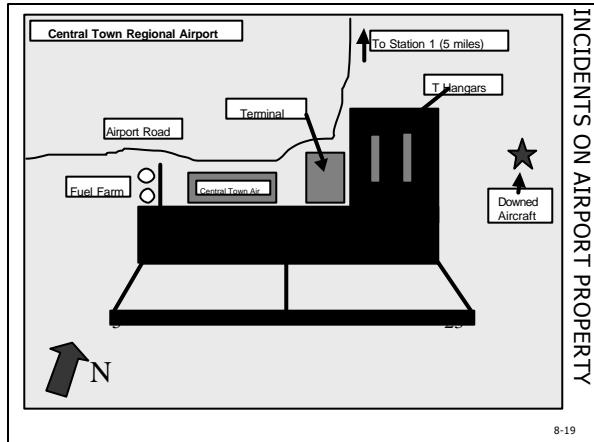
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# VDFP General Aviation Firefighting for Structural Firefighters



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**Group Exercise - Case 3 – Page 155**

- A single engine aircraft crash on airport property
  - Response
    - Establish Scene Safety
    - Establish command
    - Determine Strategic goals
    - Develop a Tactical Plan of Action
    - Determine Required resources
    - Determine a Staging Area
  - Notifications per the Airport/Aircraft Emergency Plan

INCIDENTS ON AIRPORT PROPERTY

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**Case 3 – Page 155**

- A single engine aircraft crash on airport property
  - Conclusion

INCIDENTS ON AIRPORT PROPERTY

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# VDFP General Aviation Firefighting for Structural Firefighters

## Summary

- Any fire department can use practice scenarios to gain confidence in methods of addressing the basic issues as incidents involving aircraft/airport
- Firefighters need to know which entrance to use, how to safely enter the airport environment, and proper radio usage
- The only way to gain experience short of actual incidents is to take advantage of practice scenarios

INCIDENTS ON AIRPORT PROPERTY

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