Why Your Airport Is Burning
(and how to prevent it)

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ARFF Working Group 2019
Dusseldorf Airport Fire
SECOND EDITION
WITH A NEW SECTION: "ON ROBUSTNESS & FRAGILITY"

NEW YORK TIMES BESTSELLER

THE BLACK SWAN

The Impact of the HIGHLY IMPOSSIBLE

"The most prophetic voice of all."
—GQ

Nassim Nicholas Taleb
Are fires occurring?
Under what conditions?
What is the root cause?
What are the impacts?
How can these be prevented?
#5: Arson and Aircraft Origin
#5: Arson and Aircraft Origin
#4: Other / Miscellaneous
Max Conrad Flying School
#5: Arson and Aircraft Origin

# 4: Other / Miscellaneous

#3: Hot Work Operations
Hot Work Operations
#5: Arson and Aircraft Origin
# 4: Other / Miscellaneous
# 3: Hot Work Operations
#2: Cooking Related
#1: Electrical

#2: Cooking Related

#3: Hot Work Operations

#4: Other / Miscellaneous

#5: Arson and Aircraft Origin
#5: Arson and Aircraft Origin
# 4: Other / Miscellaneous
# 3: Hot Work Operations
# 2: Cooking Related
# 1 Electrical

UNDETERMINED
Fostoria Municipal Hangar
#1 Know Your Facility
#1 Know Your Facility

- Demographics
- Geography
- Building Stock
- Fire Experience
- Responses
- Hazards
- Economic Stability
#1 Know Your Facility

#2 Have a Plan
#1 Know Your Facility

#2 Have a Plan

#3 Enforce the Code
#3 Enforce the Code

NFPA Fire Code
NFPA 10 Life Safety Code
NFPA 407 Standard for Aircraft Fuel Servicing
NFPA 409 Standard on Aircraft Hangars
NFPA 410 Standard on Aircraft Maintenance
NFPA 415 Standard on Airport Terminal Buildings
NFPA 418 Standard for Heliports
#3 Enforce the Code

**International Fire Code (IFC)**

*Chapter 20* Aviation Facilities

**International Building Code (IBC)**

*Section 412* Aircraft-related Occupancies
#1 Know Your Facility
#2 Have a Plan
#3 Enforce the Code
#4 Investigate Incidents
#4 Investigate Incidents

Public Awareness and Education
Aggressive Inspections
Firefighting tactics
Modifying regulatory requirements
Prevention and mitigation
#1 Know Your Facility
#2 Have a Plan
#3 Enforce the Code
#4 Investigate Incidents
#5 Educate and Train