

British Automatic Fire Sprinkler Association

bafsa

Sprinkler reliability and effectiveness

Danny Doherty

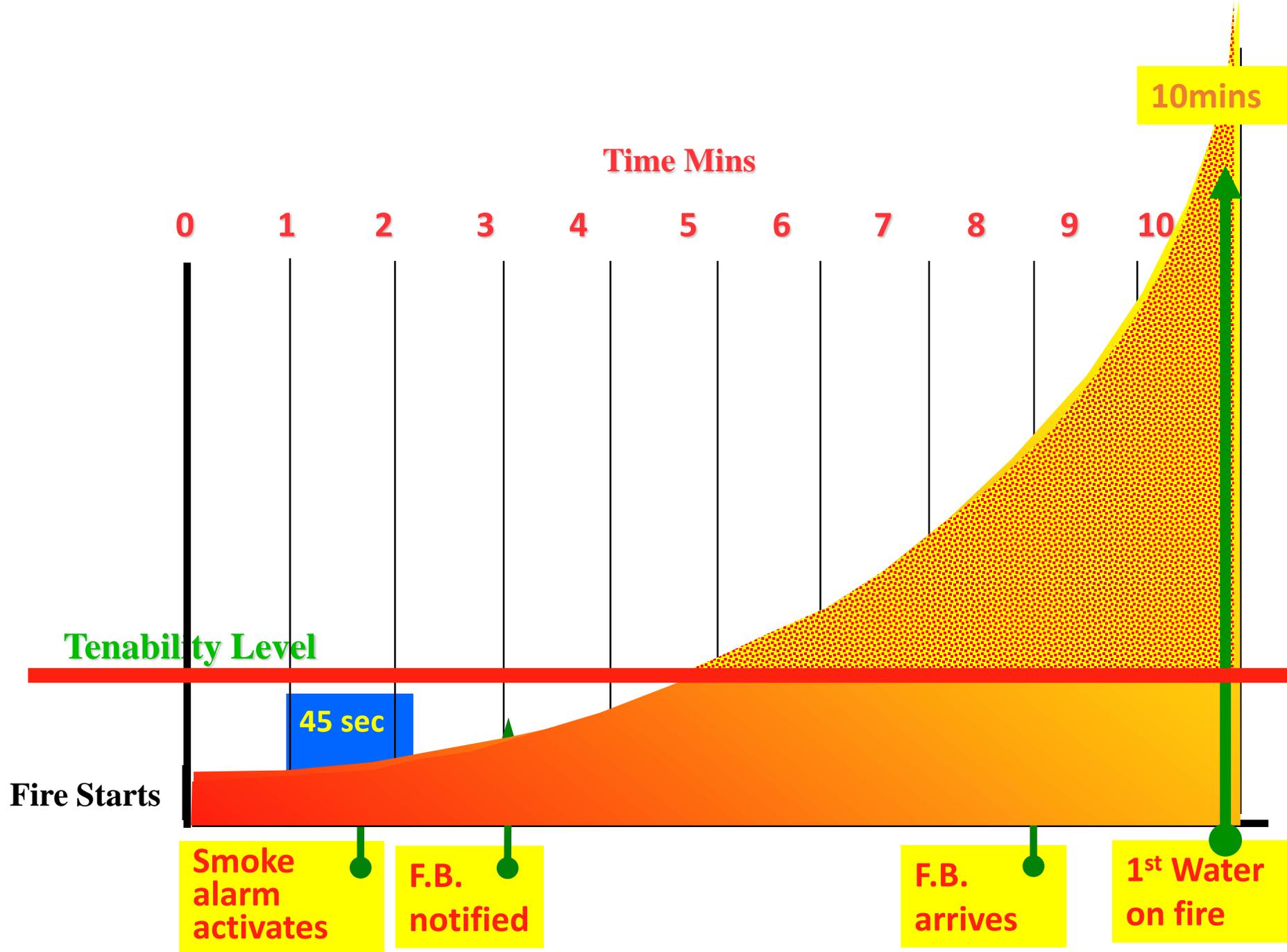
**Cross Party Group on Accident
Prevention**

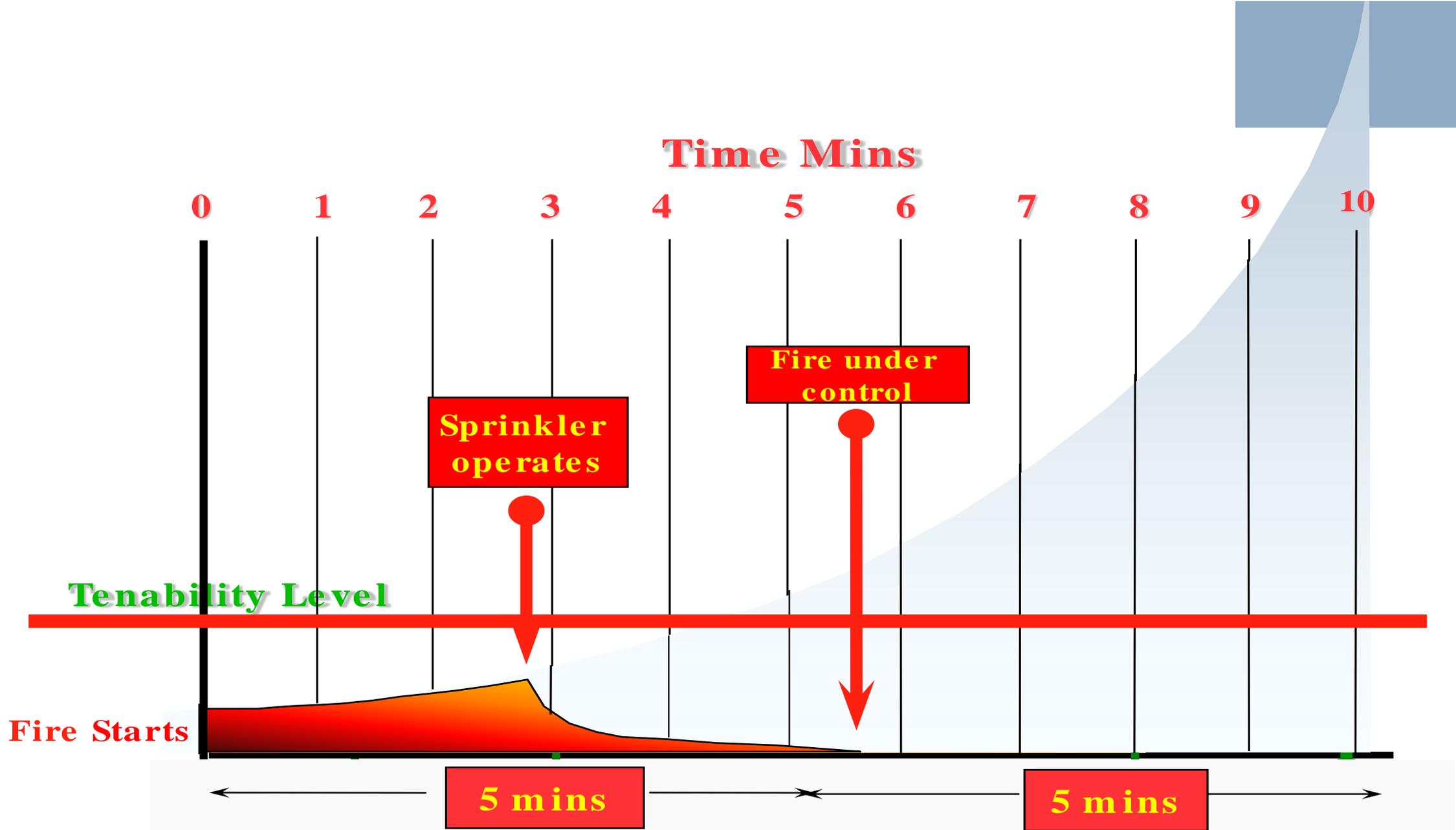
Protecting people, property and the environment

What sprinklers do

- Independent heat sensing elements detect a fire
- Raise an alarm
- Automatically apply water to fire area controlling fire size and growth
- Reduce the toxic effects of smoke
- Prevent flashover development
- Increase evacuation time
- Allow more time for F&RS to attack the fire
- Reduce fire damage by up to 95%







Scotland's Standard

- Enclosed Shopping Centre
- Required in all new Residential Care Homes
- Sheltered Housing Complex
- High rise domestic over 18m high
- All new schools
- Hospital high risk areas and Departments.
- Warehouses over $14,000m^2$
- Some local authorities have it mandatory in their social housing.



Who are the vulnerable?

- Older people
- Children and young people
- People with learning or physical disabilities
- People with mental illness, alcohol or drug abuse problems
- People in temporary accommodation or other poor housing

Two main factors where suppression systems are essential ?

1. High probability of a fire occurring
2. Low probability of escape





Hostel: 9/6/15

- F
- 4
- 1
- N
- 2
- N



iberate
ersons
vs
nts



Sheffield mobility scooter fire January 2016

- C
- S
- M
- F
- F
- F
- 3
- O
- F



Optimal Economics

The image shows the front cover of a report. At the top right is the logo for 'OPTIMAL ECONOMICS', which consists of a diamond shape divided into four quadrants. Below the logo, the title 'Efficiency and Effectiveness of Sprinkler Systems in the United Kingdom: An Analysis from Fire Service Data' is centered in a bold, black font. The central part of the cover features a photograph of a red fire sprinkler head with blue water spraying outwards. At the bottom of the cover, there are three logos: 'NFSN National Fire Sprinkler Network' on the left, the date 'April 2017' in the center, and 'CFOA Chief Fire Officers Association' on the right.

OPTIMAL
ECONOMICS

**Efficiency and Effectiveness of Sprinkler
Systems in the United Kingdom: An
Analysis from Fire Service Data**



April 2017

NFSN
National Fire
Sprinkler Network

CFOA
Chief Fire Officers
Association



British Automatic Fire Sprinkler Association

bafsa

Thanks

danny.doherty@bafsa.org.uk

Protecting people, property and the environment
