

Fire and Risk Management Support Services

One Company – Many Solutions

DAVE BERRY

Chairman

Fire & Risk Management Support Services Ltd



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Dave Berry

**Member & Chairman of many & various BSI, CEN & ISO
Committees including:**

Chairman - BS 5588: Part 7 – Atria

Chairman - BS 7974: PD5 – Evacuation

Vice Chairman – FSH/14 that introduced 9999

**Represented HO on Building Regulations Advisory
Committee – BRAC**

HO Risk Assessment Working Group – Report

**“Community Fire Risk Management” – Integrated Risk
Management Plans**

**Established Building Disaster Assessment Group – Review
of Interaction between Building Design and Fire Service
Operating Procedures and Equipment**

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Wardon, Worcester 2008 £3m loss



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Fire Safety in Warehouses

What is the legal position?

Who is responsible?

What is required?

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Fire Safety in Warehouses

What is the legal position?

Regulatory Reform (Fire Safety) Order
2004



Fire Safety in Warehouses

Who is responsible?

The Responsible Person

- The Owner
- The Manager
- The Person with control over all or part

Fire Safety in Warehouses

What is required?

If you are the responsible person you must carry out a fire risk assessment which must focus on the safety in case of fire of all 'relevant persons'.

Fire Safety in Warehouses

What is required?

The FRA should pay particular attention to those at special risk, such as disabled people, those who you know have special needs and young persons, and must include consideration of any dangerous substance liable to be on the premises.

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What is required?

Your fire risk assessment will help you identify risks that can be removed or reduced and to decide the nature and extent of the general fire precautions you need to take.

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Portlethen – Aberdeenshire 2008



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Regulatory Reform (Fire Safety) Order

During the 'in use' life of a building the prime legislative responsibility for ensuring/maintaining a fire safe building is that of the **'responsible person'**



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Regulatory Reform (Fire Safety) Order

The exact nature and extent of the responsibilities of the **'responsible person'** will vary according to the circumstances of the case.

However if you are a **'responsible person'** you will be responsible for ensuring that appropriate fire safety measures are in place.



Regulatory Reform (Fire Safety) Order

These responsibilities include the following:

You must ensure that from the moment a premises is occupied (even if only partly) a fire risk assessment is completed by a 'competent person'.

If five or more people are employed; if the premises are licensed or subject to registration; or if an 'alterations notice' is in force, you must record the significant findings of the assessment.

Regulatory Reform (Fire Safety) Order

You must ensure that the fire risk assessment is a 'living document', kept up to date and remains relevant to the premises and the circumstances concerned.

You must provide the employees with comprehensible and relevant information on the risks identified by the fire risk assessment; about the measures that have been taken to prevent fires; and how they will be protected if a fire breaks out.



Regulatory Reform (Fire Safety) Order

You must consult the employees (or their elected representatives) about nominating people to carry out particular roles in connection with fire safety and about proposals for improving the fire precautions.

You must inform non-employees, such as temporary or contract workers, of the relevant risks to them, and provide them with information about who are the nominated 'competent persons', and about the fire safety procedures for the premises.



Regulatory Reform (Fire Safety) Order

You must, before employing a child (that is anyone under the age of 18), provide a parent or guardian with comprehensible and relevant information on the risks to that child identified by the risk assessment, the measures that have been put in place to prevent/protect the child from fire; and **you must** inform any other responsible person of any risks to that child arising from their undertaking.



Regulatory Reform (Fire Safety) Order

You must co-operate with other **responsible persons** who also have premises in the building, and inform them of any significant risks that are found and reduce/control those risks which might affect the safety of their employees.

Regulatory Reform (Fire Safety) Order

You must provide the employer of any person from an outside organisation who is working in the premises (e.g. agency providing temporary staff) with comprehensible and relevant information on the risks to those employees and the preventive and protective measures taken. They must also provide those employees with appropriate instructions and relevant information about the risks to them.

Regulatory Reform (Fire Safety) Order

If you are not the employer but have any control of premises which contain more than one workplace, **you must** ensure that the requirements of the Fire Safety Order are complied with in those parts over which you have control.



Regulatory Reform (Fire Safety) Order

You must consider the presence of any dangerous substances and the risk this presents to relevant persons from fire.

You must establish a suitable means of contacting the emergency services and provide them with any relevant information about dangerous substances.

Regulatory Reform (Fire Safety) Order

You must provide appropriate information, instruction and training, during working hours to the employees, about the fire precautions in the workplace, when (a) they start working in the workplace, and (b) from time to time throughout the period they work in the workplace.



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Regulatory Reform (Fire Safety) Order

You must ensure that the premises and any equipment provided in connection with fire fighting, fire detection and warning, or emergency routes and exits are covered by a suitable system of maintenance and are maintained in an efficient state, in efficient working order and in good repair.



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Regulatory Reform (Fire Safety) Order

Employees must co-operate with you to ensure the workplace is safe from fire and its effects, and must not do anything that knowingly will place themselves or other people at risk.



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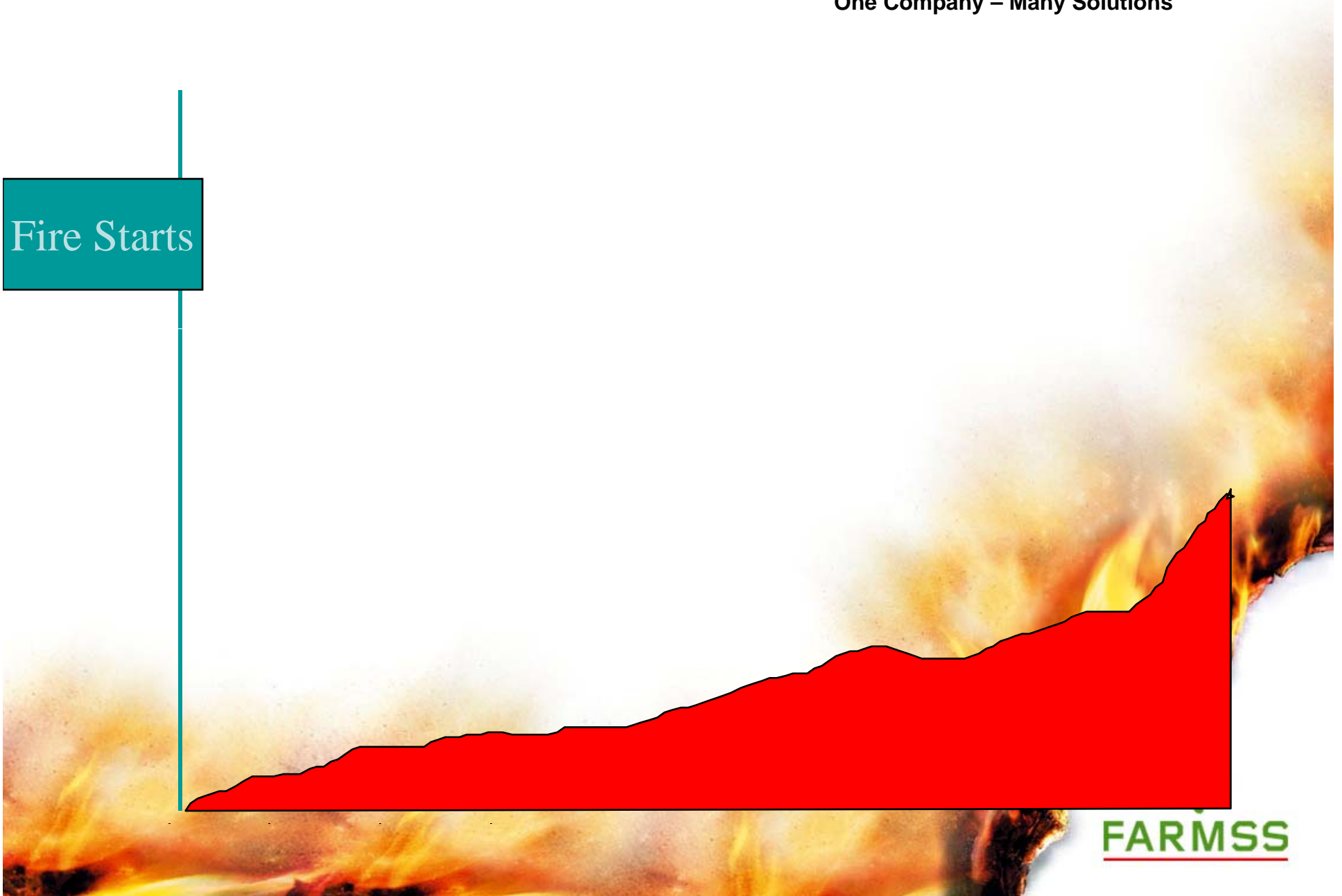
Caerphilly – March 2009



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Fire Starts



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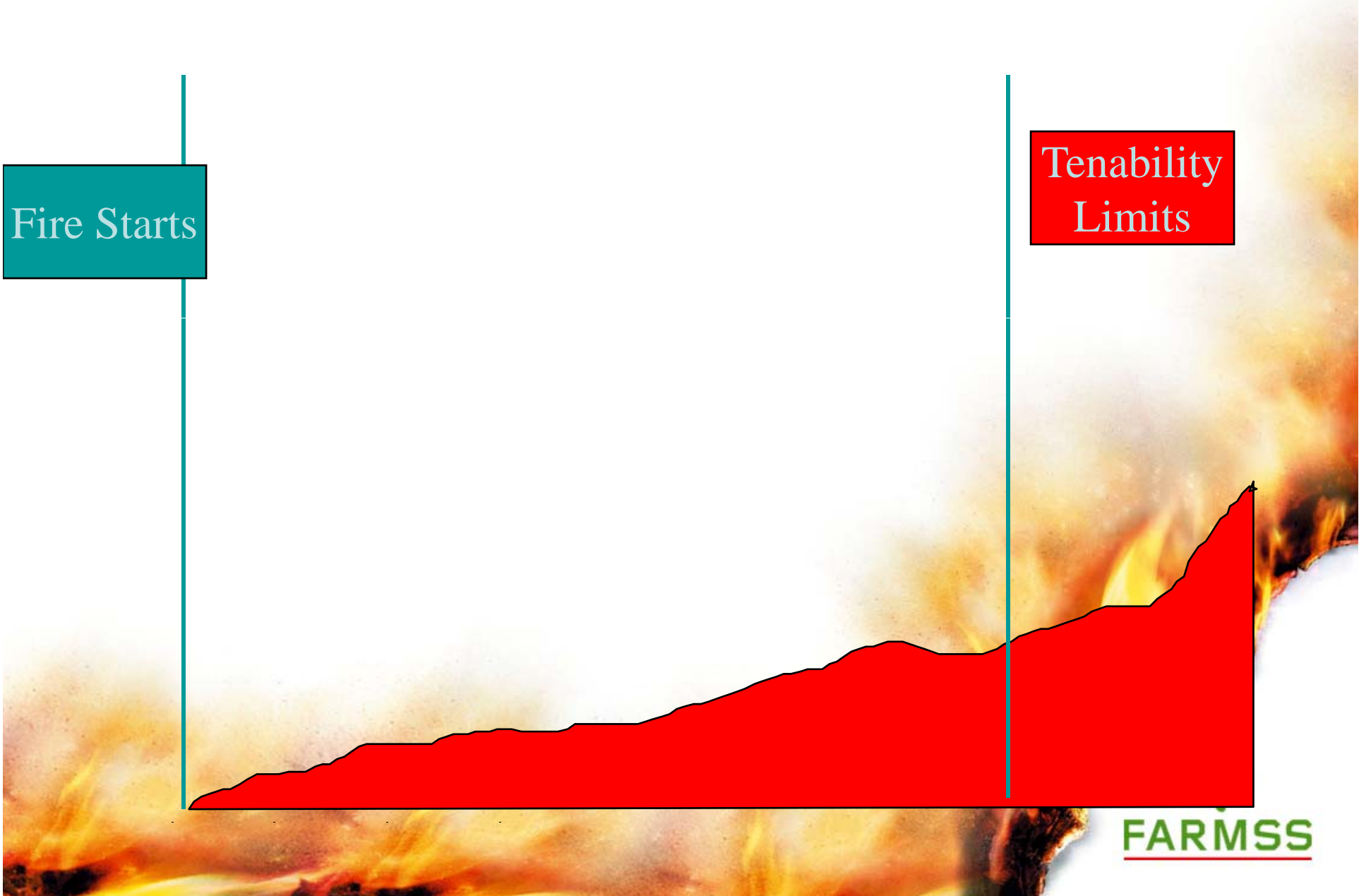
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Fire Starts

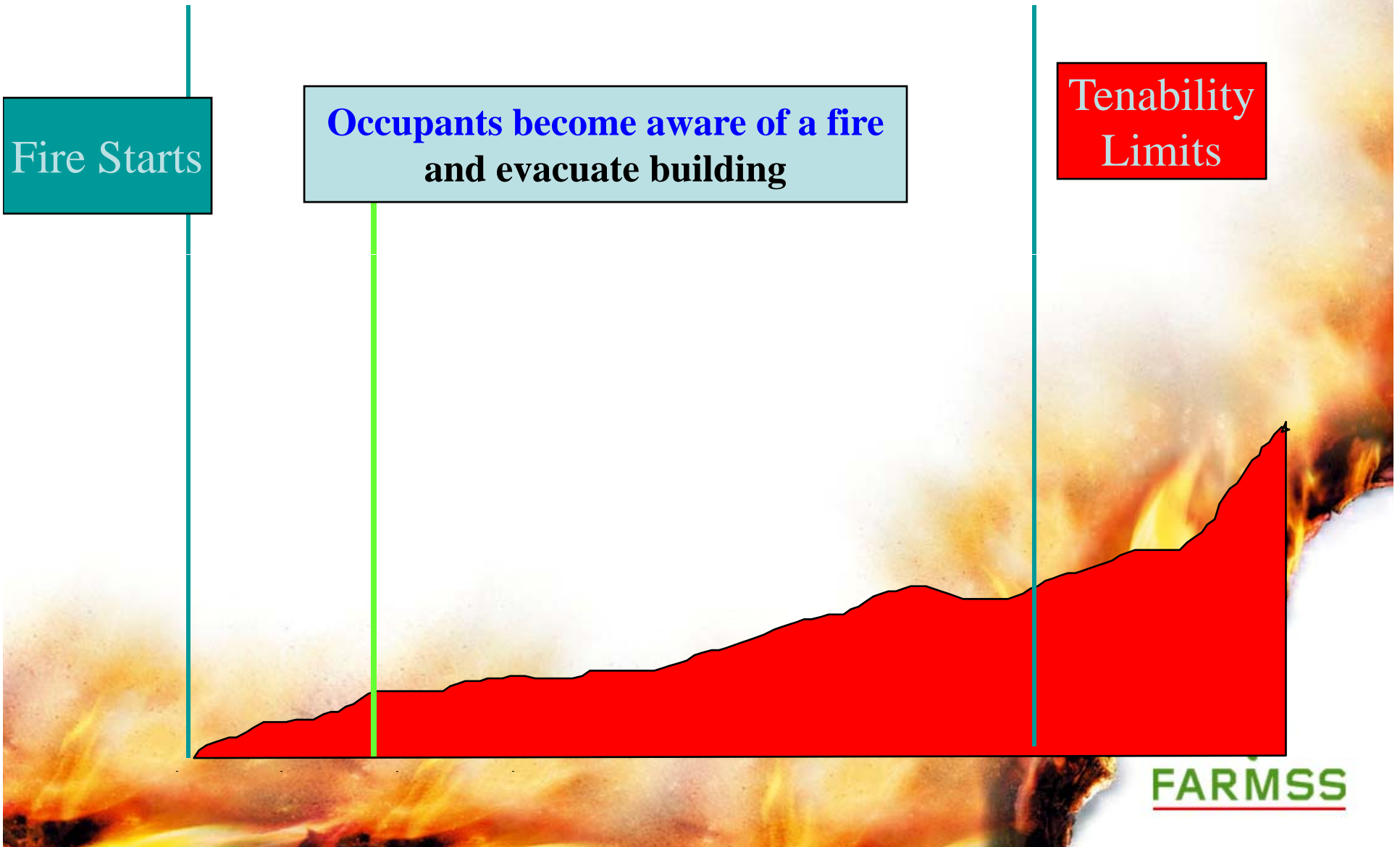
Tenability
Limits

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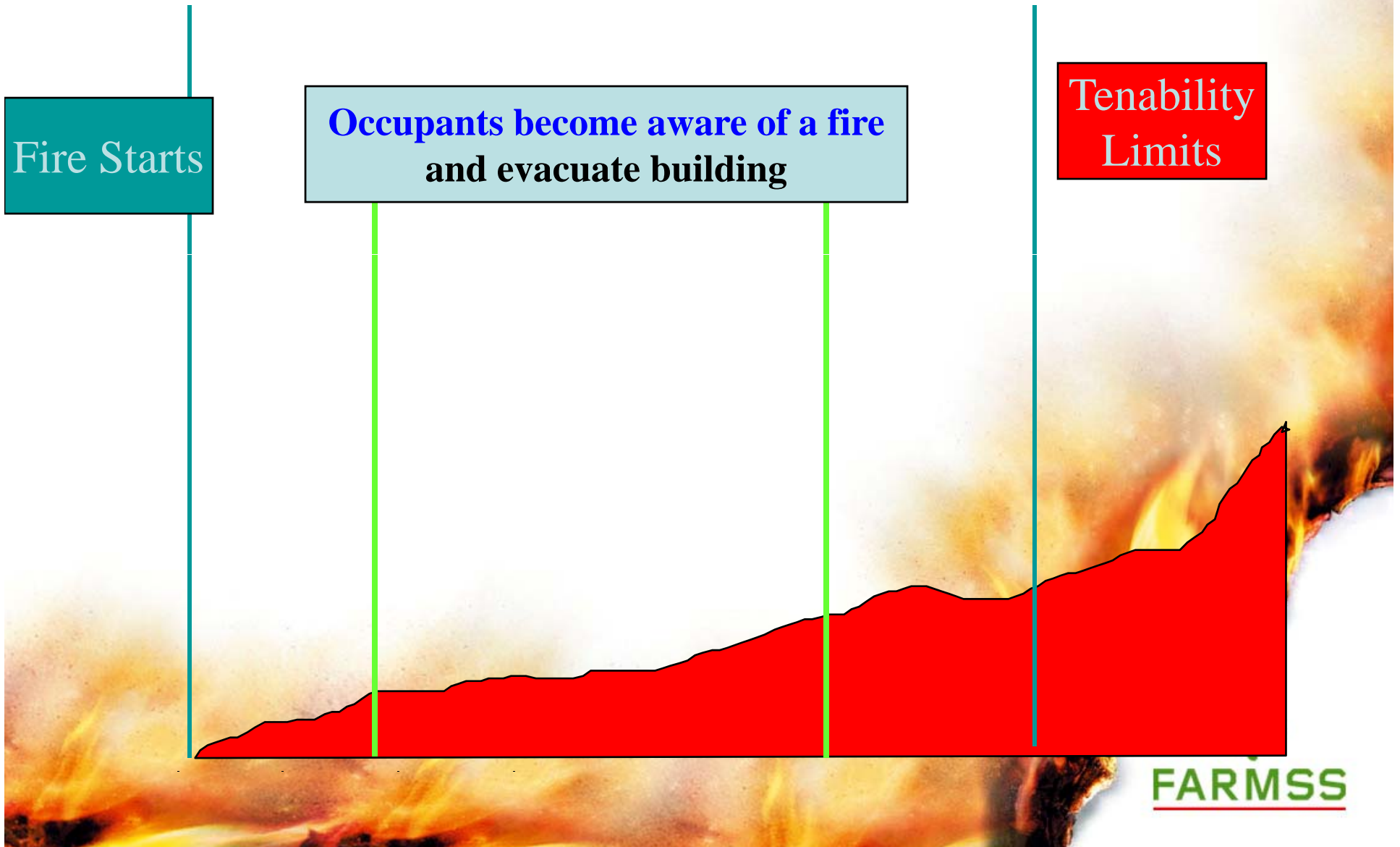
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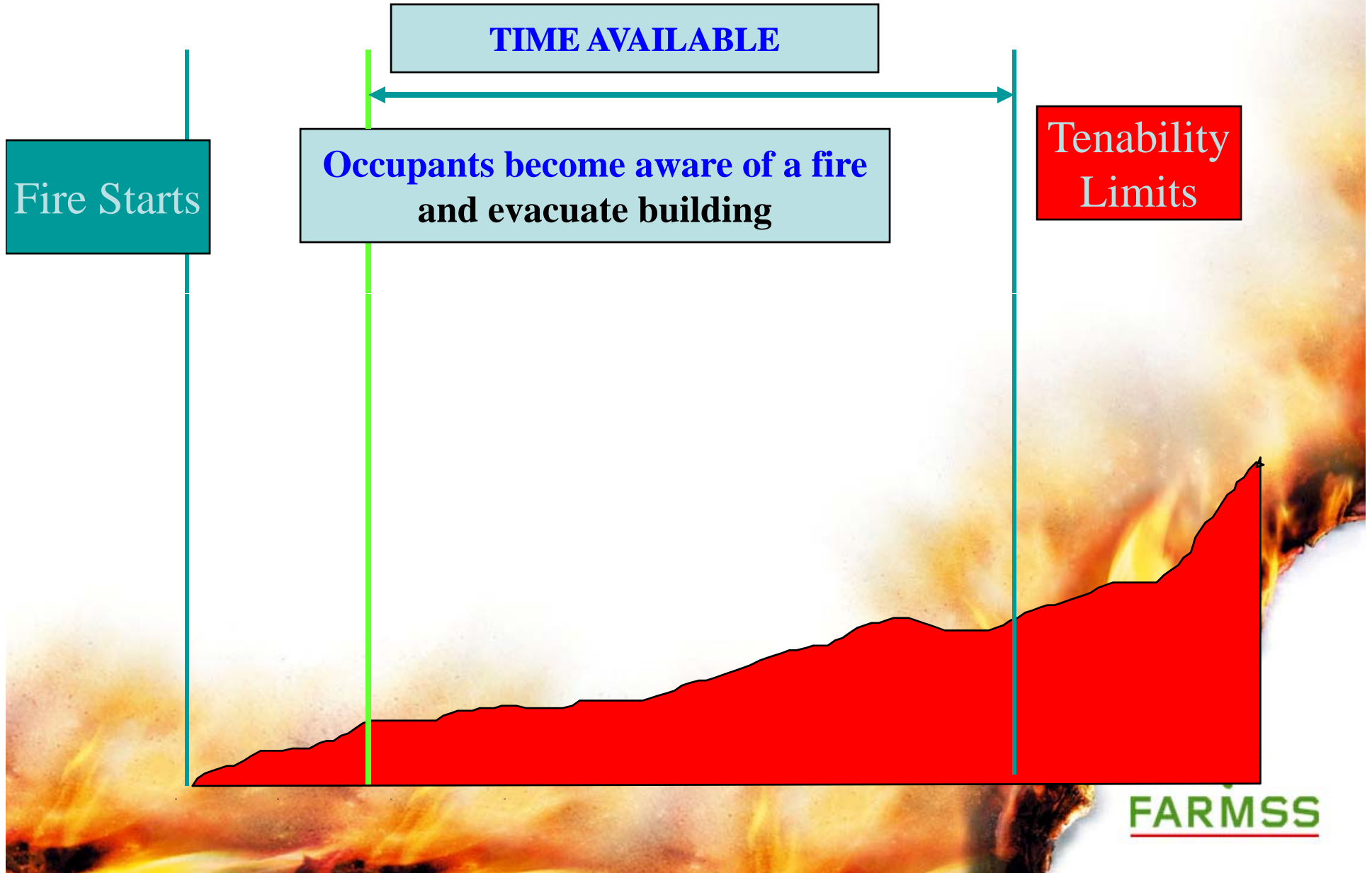
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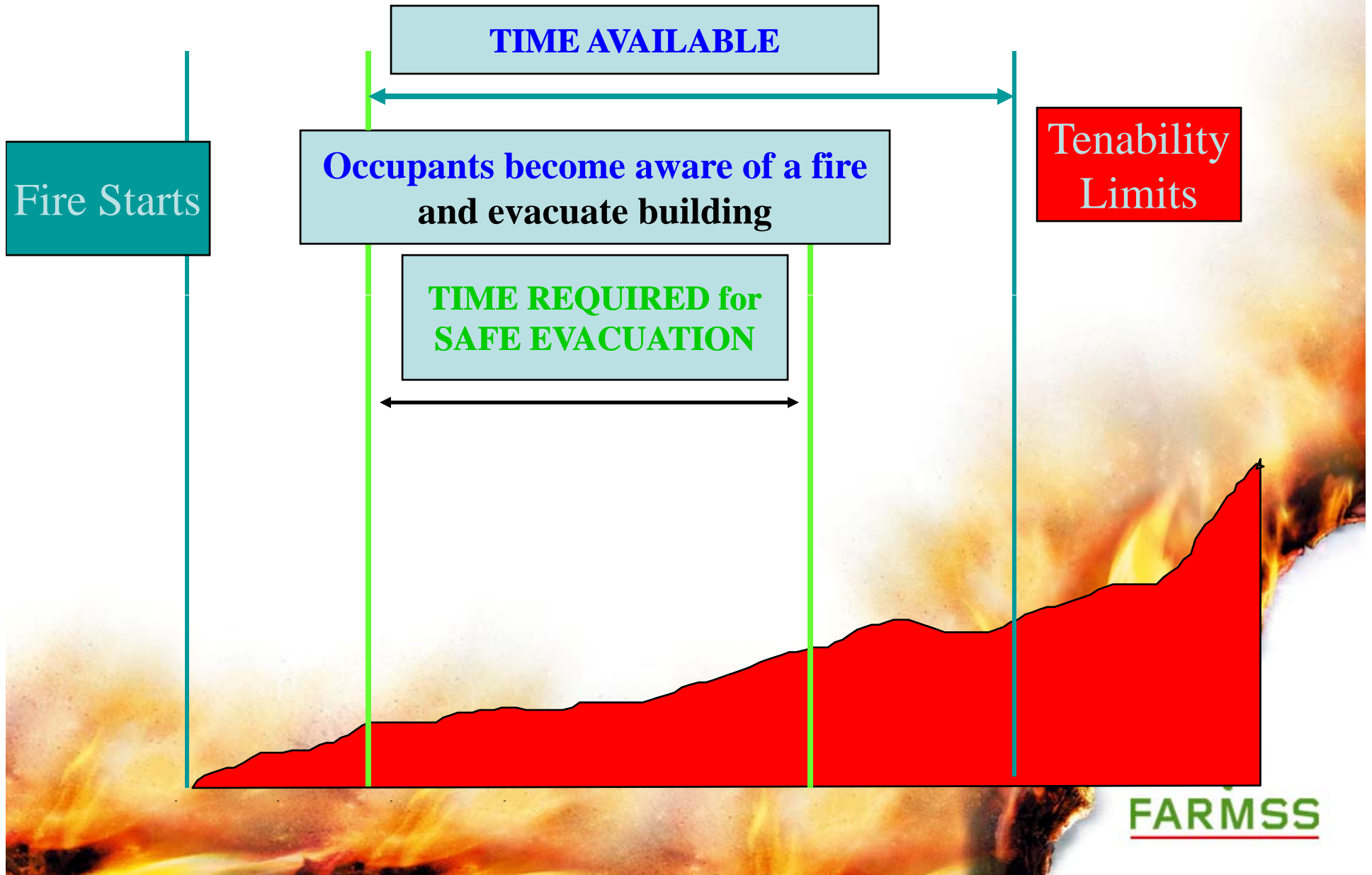
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FIRE SAFETY DESIGN

LIFE SAFETY

In essence the outcome of a fire safety design for life safety should ensure that the:

TIME REQUIRED - Time to complete the Life Safety Strategy (Defensive/ Evacuation)



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FIRE SAFETY DESIGN

LIFE SAFETY

In essence the outcome of a fire safety design for life safety should ensure that the:

TIME REQUIRED - Time to complete the Life Safety Strategy (Defensive/ Evacuation)

is significantly less than the

TIME AVAILABLE - Time to when the Tenability Limits are reached.



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FIRE SAFETY DESIGN

TIME REQUIRED & AVAILABLE

The **time required and available** before the exit routes are affected by heat/ smoke is determined by such factors as:



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FIRE SAFETY DESIGN

TIME REQUIRED

The **time required/ available** before the exit routes are affected by heat/ smoke is determined by such factors as:

General layout

Type & No of occupants

Activities/ processes

Potential ignition sources

Fire alarm/ detection

Passive fire protection

Building construction

Fire safety management

Combustible contents

Fire load

Fire service facilities

Active fire protection



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Regulatory Reform (Fire Safety) Order

CLG Guide

Fire Safety Risk Assessment

Factories and Warehouses



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CLG Guide

Fire Safety Risk Assessment

Part 1 Fire Risk Assessment

Step 1 Identify fire hazards

Step 2 Identify people at risk

Step 3 Evaluate, remove, reduce and protect from risk

Step 4 Record, plan, inform, instruct and train

Step 5 Review



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CLG Guide

Fire Safety Risk Assessment

Part 2 - Further guidance on fire risk assessment and fire precautions

Section 1 Further guidance on fire risks and preventative measures

Section 2 Further guidance on fire detection and warning systems
escape routes

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CLG Guide

Fire Safety Risk Assessment

Part 2 - Further guidance on fire risk assessment and fire precautions

Section 3 Further guidance on firefighting equipment and facilities

Section 4 Further guidance on escape routes

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CLG Guide

Fire Safety Risk Assessment

Part 2 Further guidance on fire risk assessment and fire precautions

Section 5 Further guidance on emergency escape lighting

Section 6 Further guidance on signs and notices

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CLG Guide

Fire Safety Risk Assessment

Part 2 Further guidance on fire risk assessment and fire precautions

Section 7 Further guidance on recording, planning, informing, instructing and training

Section 8 Quality assurance of fire protection equipment and installation



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Warwickshire – 4 Fire fighters lose their lives




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Fire Safety in Warehouses

Do you understand your legal responsibilities?

Do you have the knowledge and skills to undertake a Fire Risk Assessment?

Are those that you use to undertake your responsibilities - competent?

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