



Underwriters
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Underwriters Laboratories Inc.
Working For A Safer World
Application of Fire Test Data

Who



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Stakeholders

What are the Needs



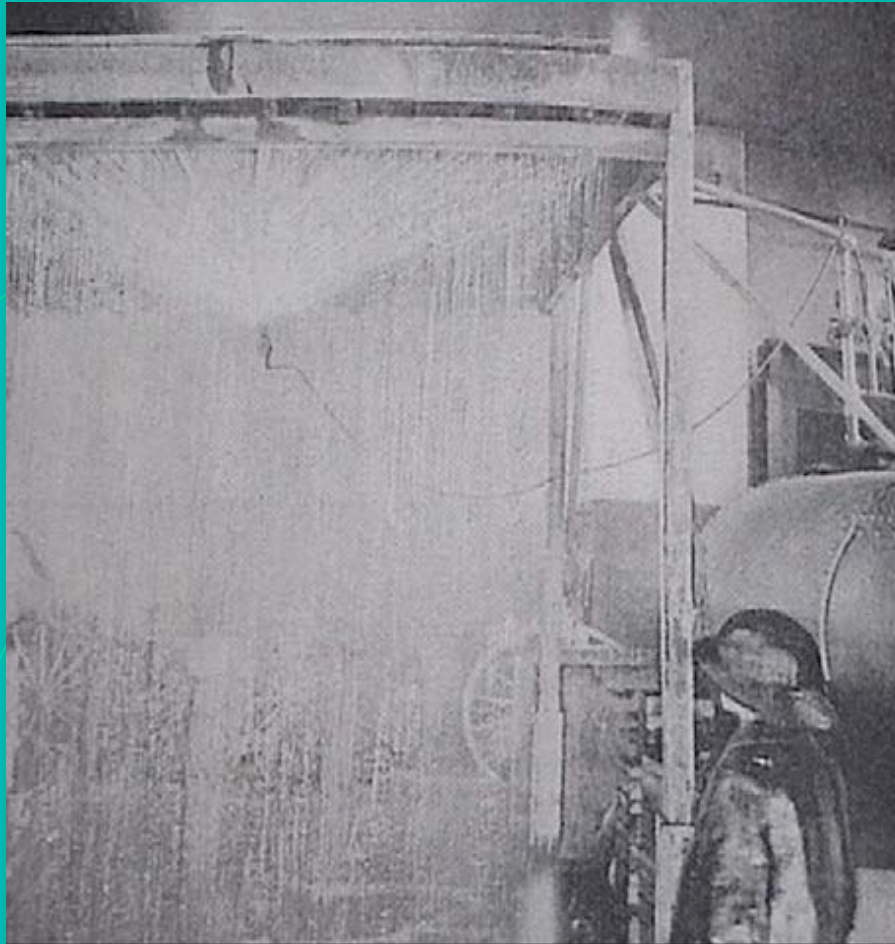
Underwriters
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- Fire Behavior Research
- Fire Mitigation and Fire Suppression Research
- Product / Commodity Storage Research
- Product / Commodity Material Research
- Building Design Research w.r.t. Building Materials
- Building Design Research w.r.t. Suppression and Extinguishment
- Fire Loss Reproduction / Simulation / Evaluation

When was the need realized? Some time ago.....



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Where



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Where



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HOW - Testing Methods



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Used if Available.
Developed if Needed.



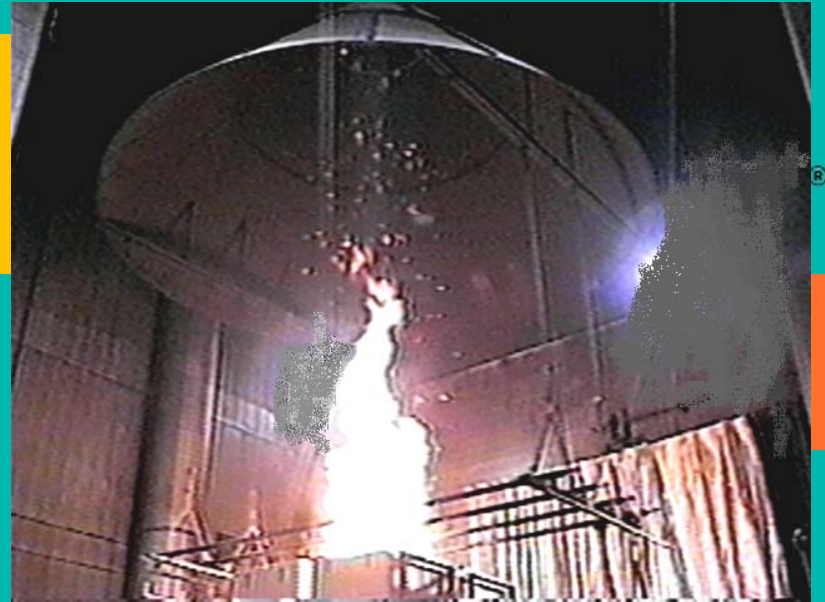
Types of Activities



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- ┆ Commodity
 - ┆ Packaging
 - ┆ Storage Methods and Conditions
- ┆ Sprinkler Issues
 - ┆ Spacing, Flow, Activation
- ┆ Combined Effects
 - ┆ Clearance, Aisle space, Stability,

Products Collector



Large Scale



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Large Scale



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Application of data



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- ┆ Commodity
 - ┆ HRR
 - ┆ Reaction to Agent
- ┆ Sprinklers
 - ┆ Spacing, Flow, Activation
- ┆ Data Analysis
 - ┆ Computer modeling



Data Analysis



Underwriters
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- ┆ Commodity
 - ┆ HRR
 - ┆ Reaction to Agent
- ┆ Sprinklers
 - ┆ Spacing, Flow, Activation
- ┆ Data Analysis
 - ┆ Computer modeling

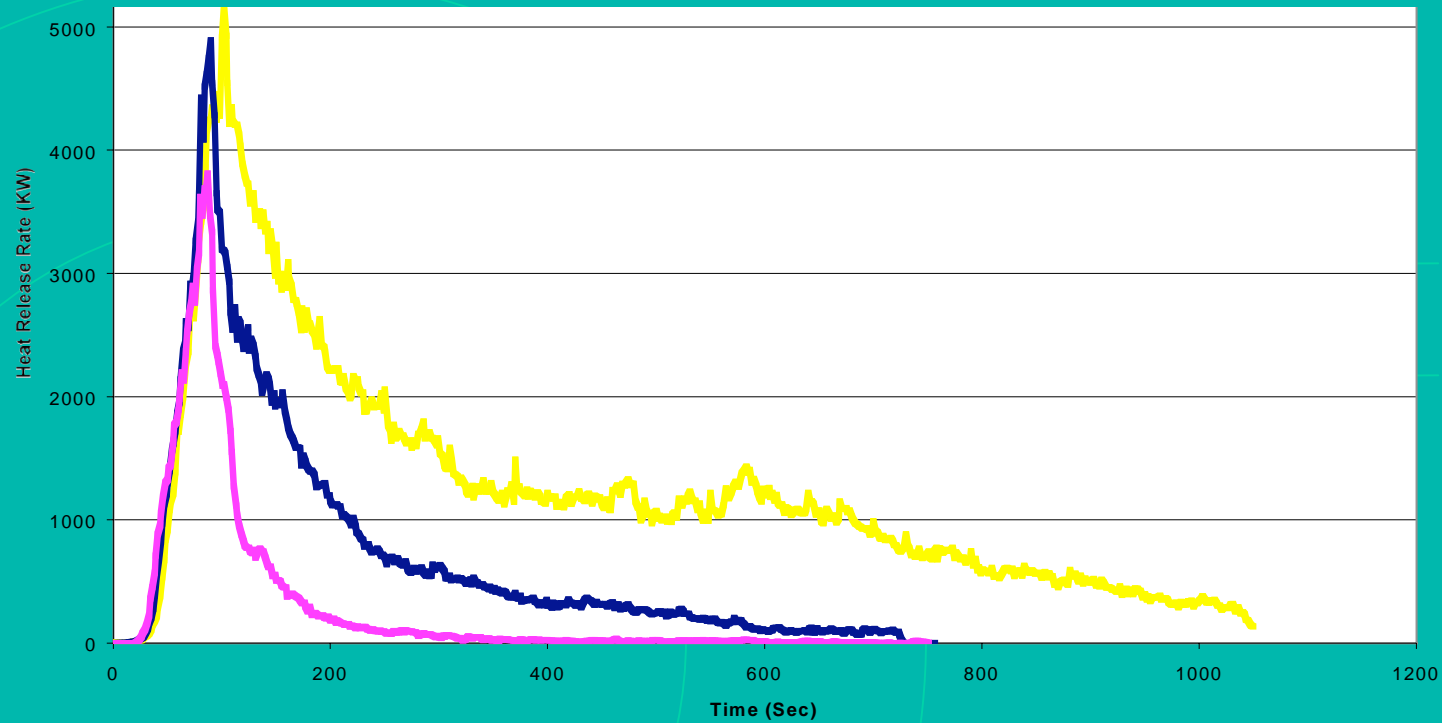


Data Analysis –

Convective HRR



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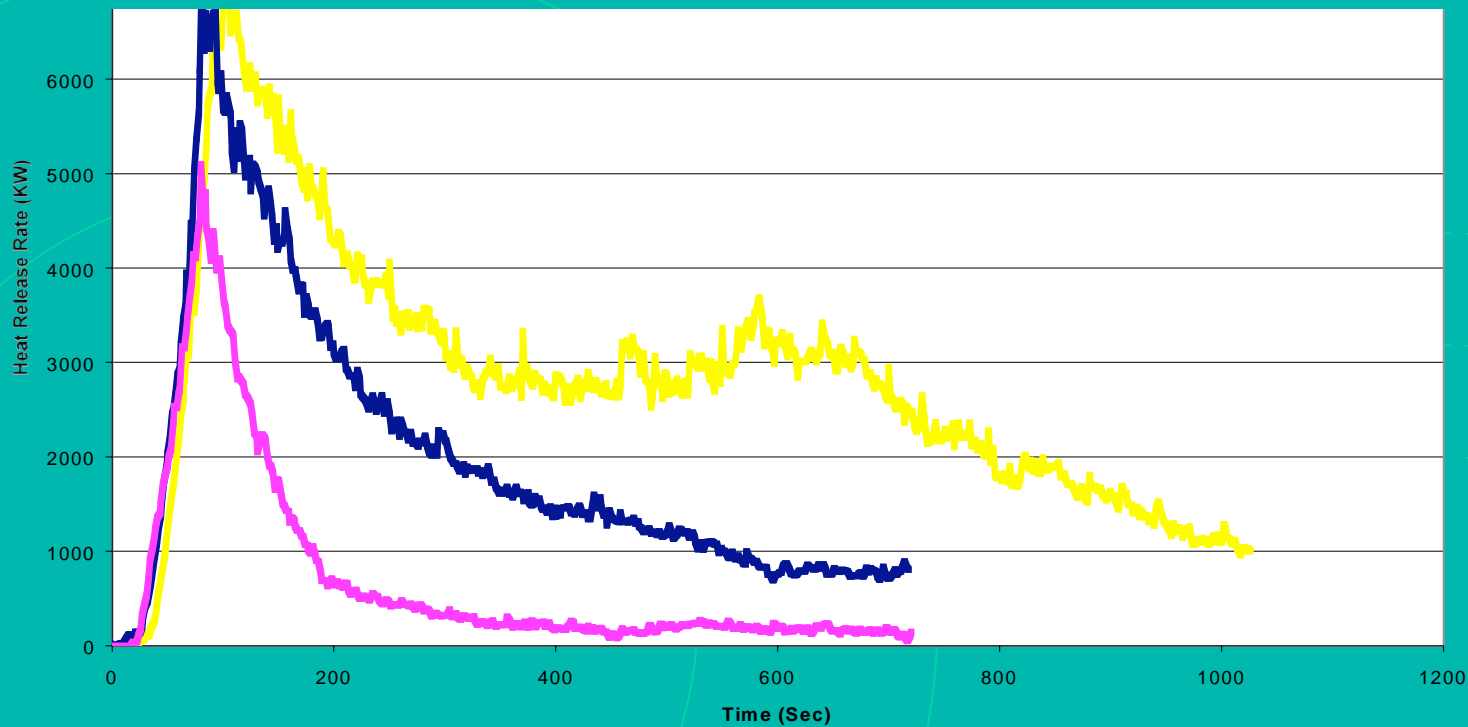


Data Analysis –

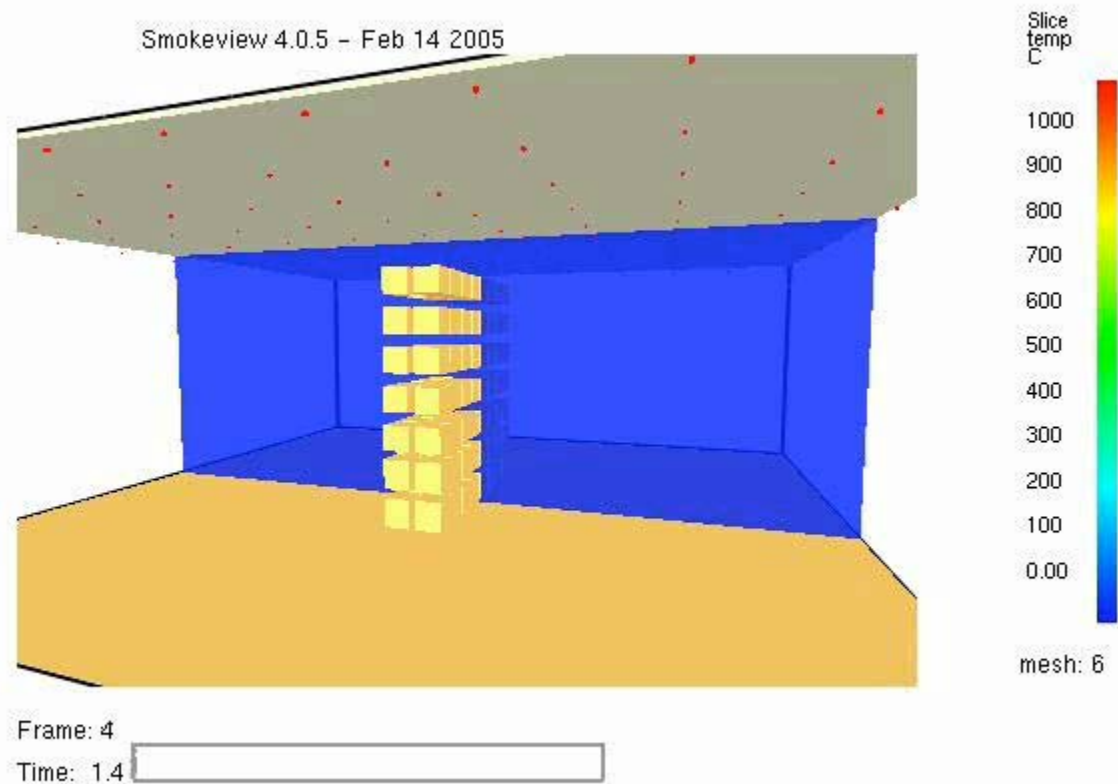
Total HRR



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Computational Analysis

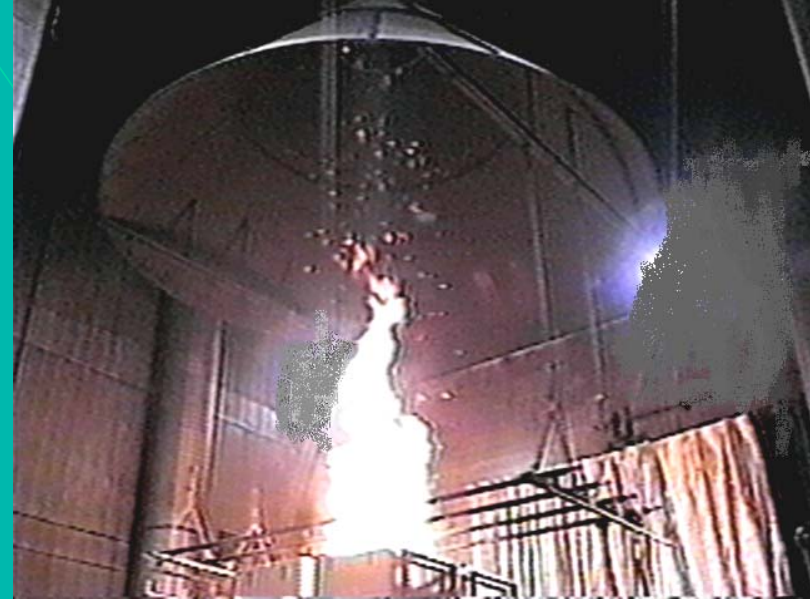


FDS

Data Analysis



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Questions



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Ignis Servus Non Dominus

Fire is the Servant
Not the Master



Ok---here is one



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