

UNIT 6: BURN TIME CONSIDERATIONS AND LINE-OF-DUTY DEATHS FROM COLLAPSE INCIDENTS

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OBJECTIVES

The students will:

- Given examples of different types of structures and different fire loads, predict the time of collapse.
- Discuss the impact of the primary factor, construction, on line-of-duty deaths (LODDs).

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STRUCTURAL COLLAPSE FIRE TEST

Single story, wood-frame structure, asphalt shingles over oriented strand board (OSB)

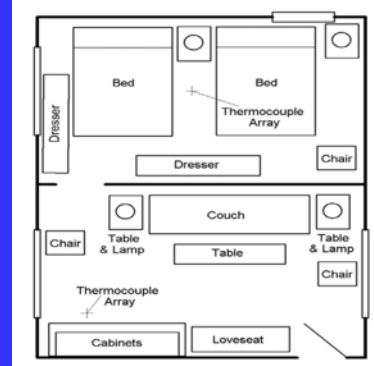
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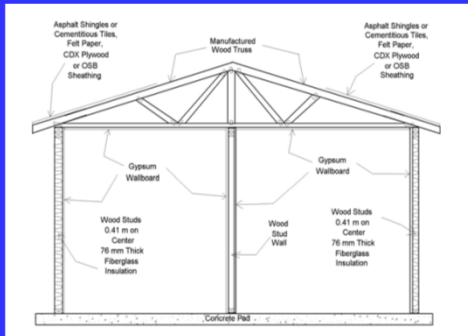


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DECISION MAKING FOR INITIAL COMPANY OPERATIONS



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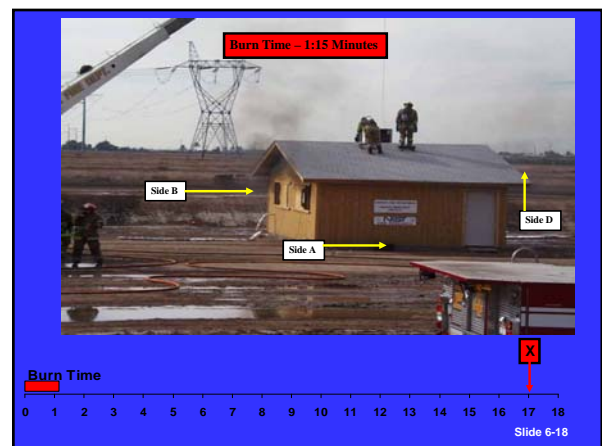
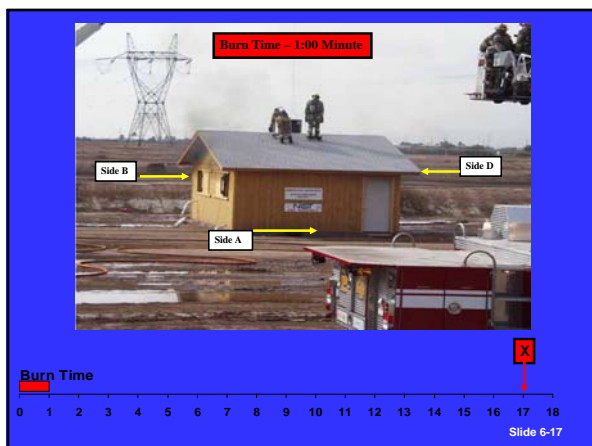
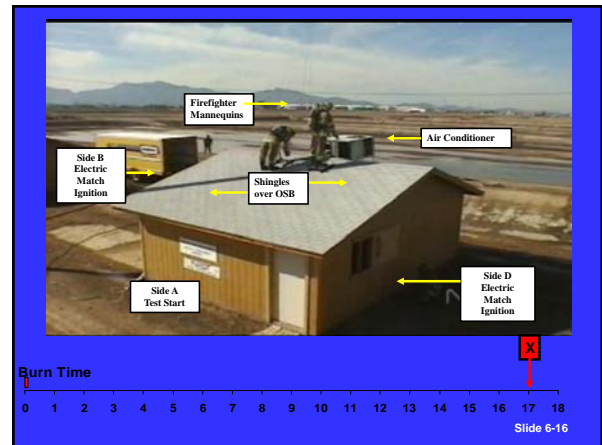


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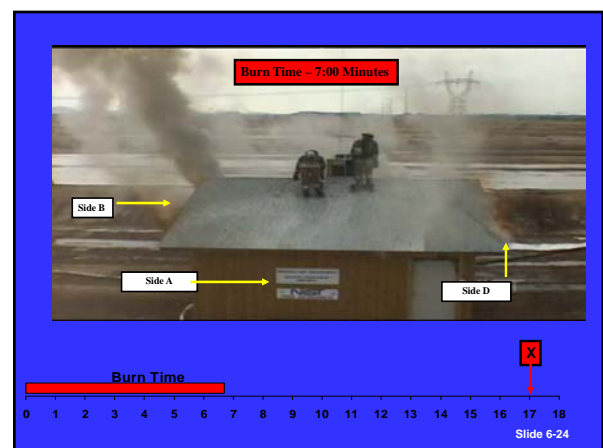
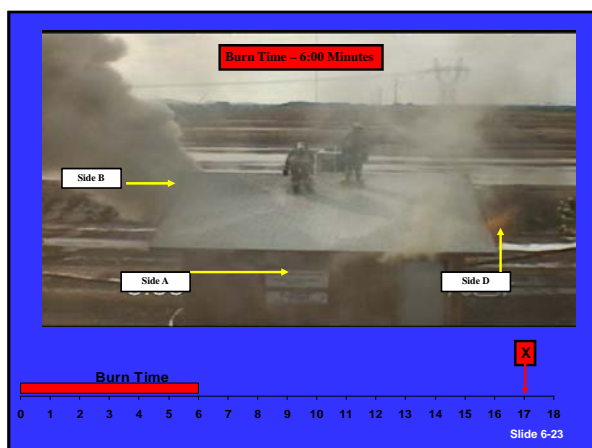
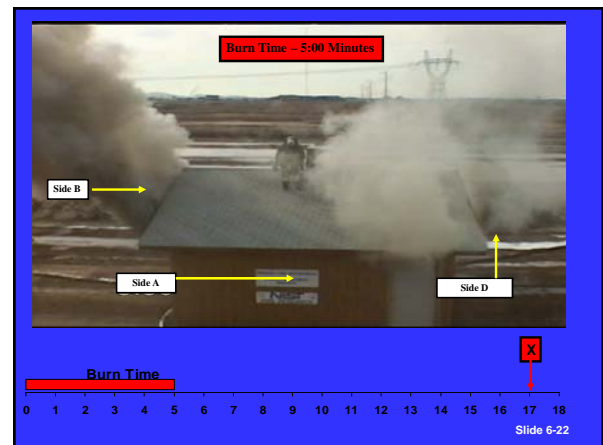
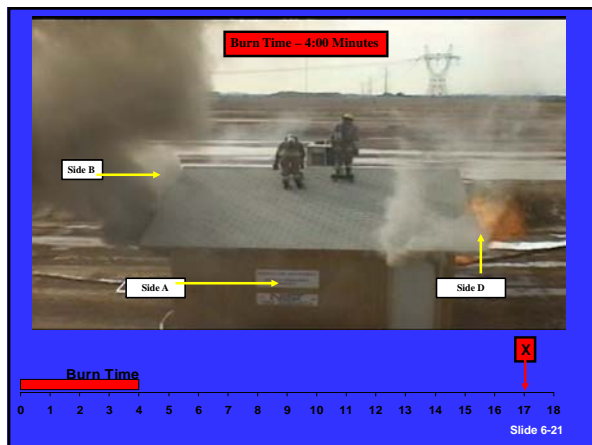
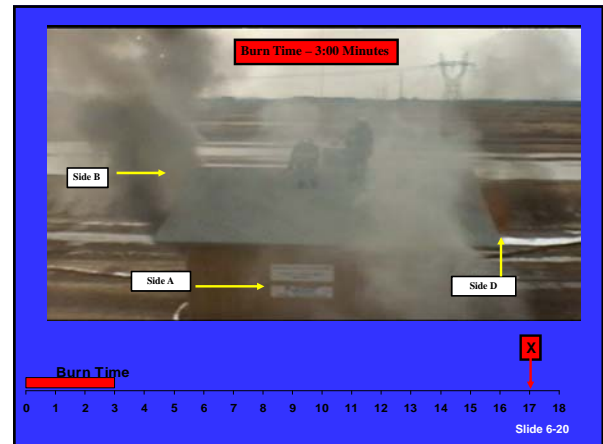
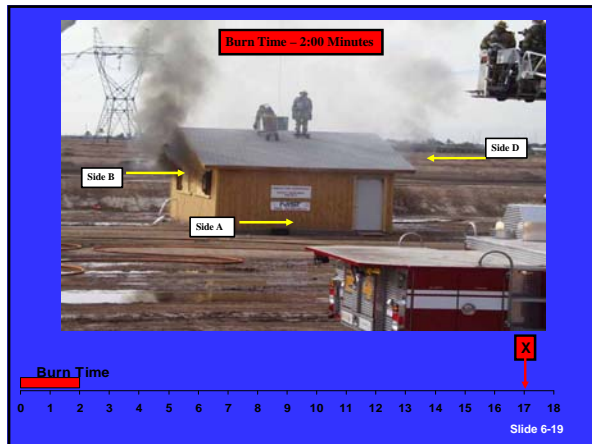


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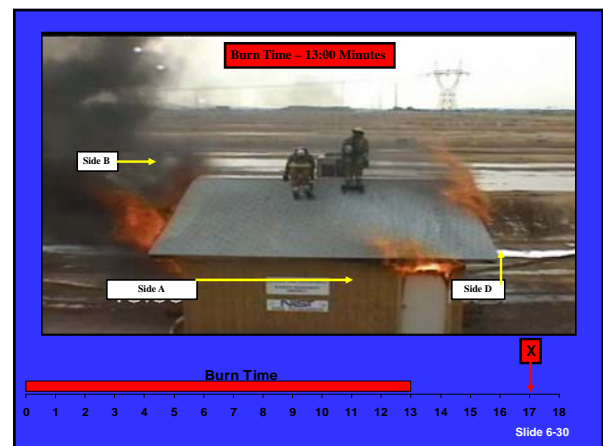
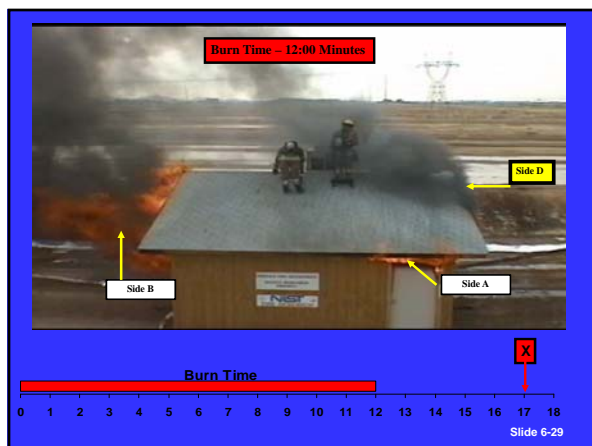
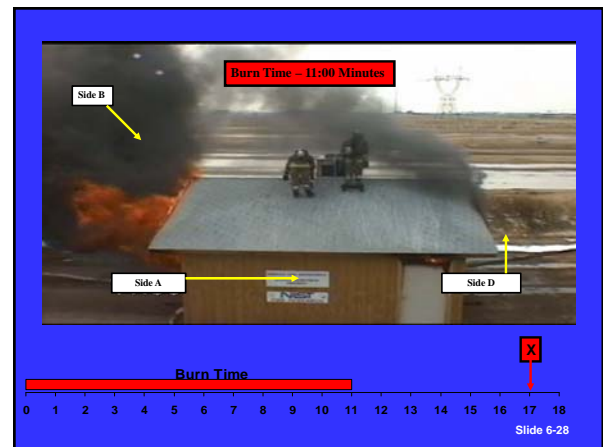
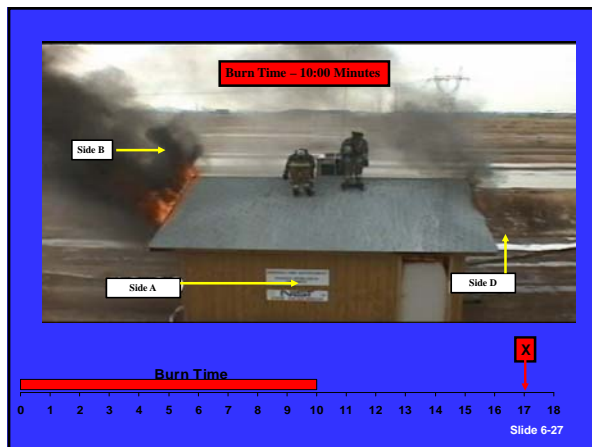
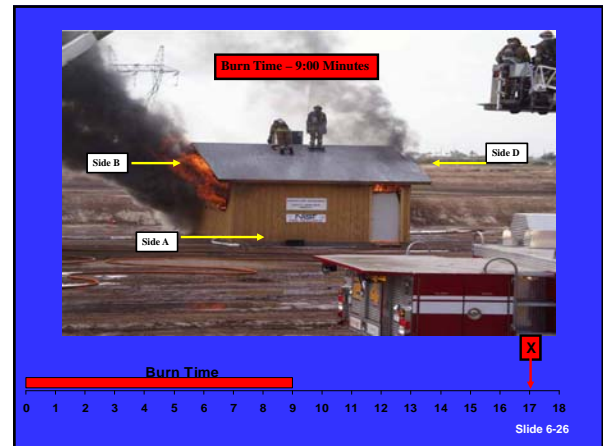
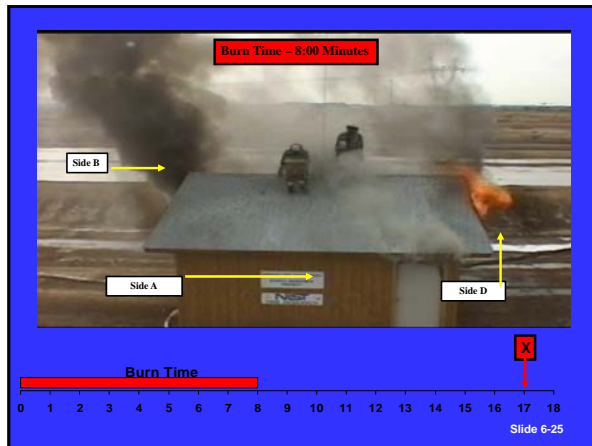
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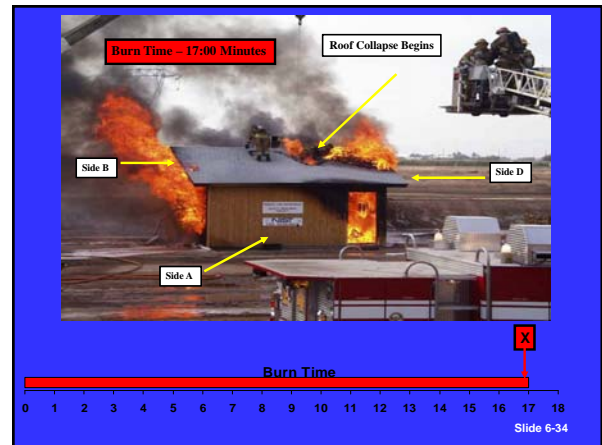
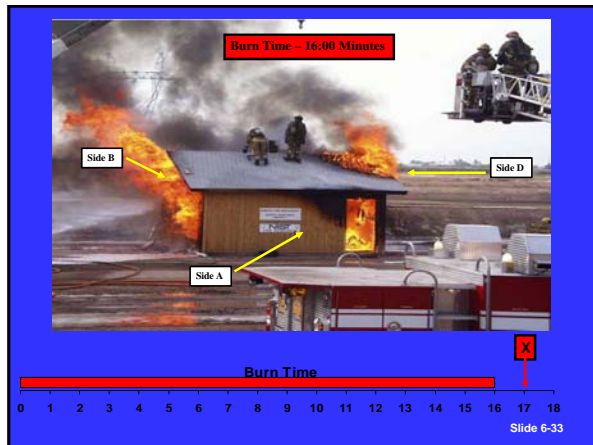
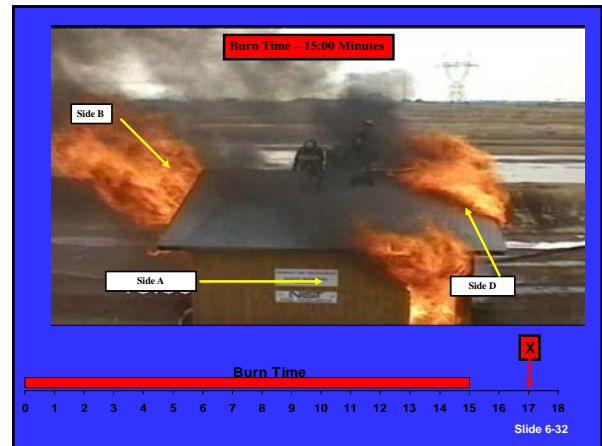
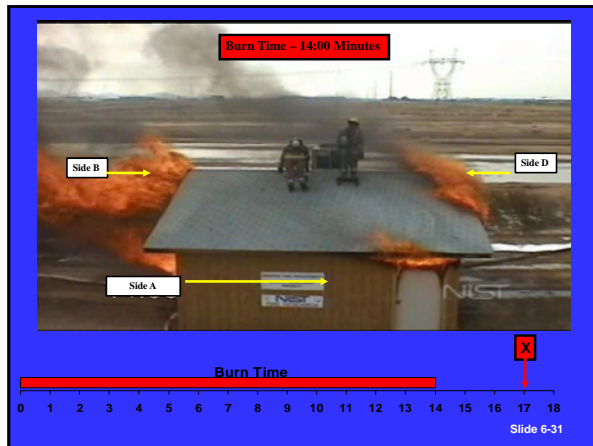
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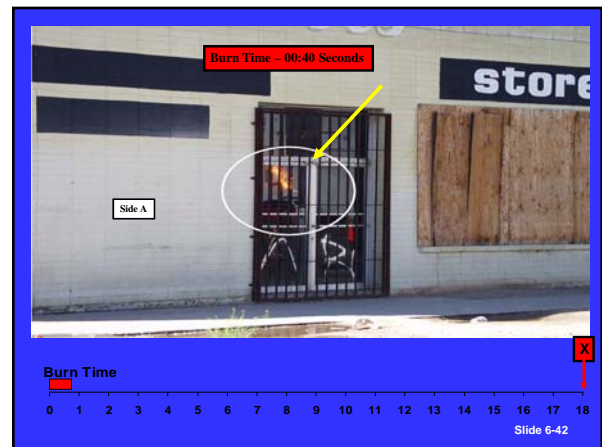
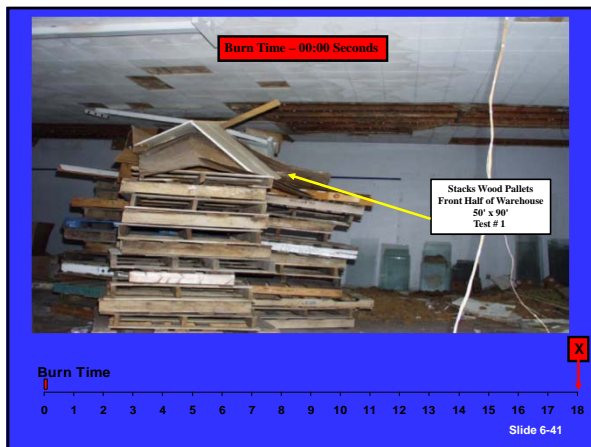
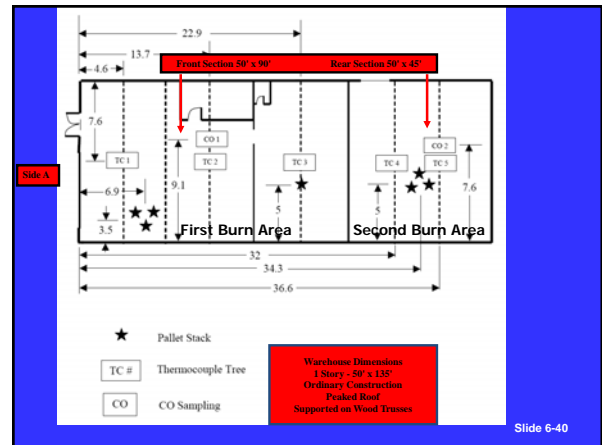
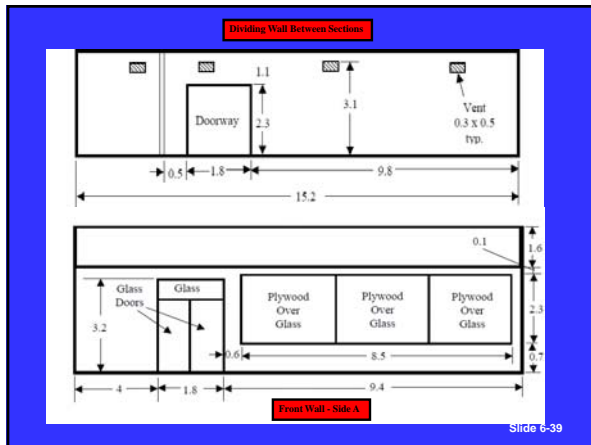
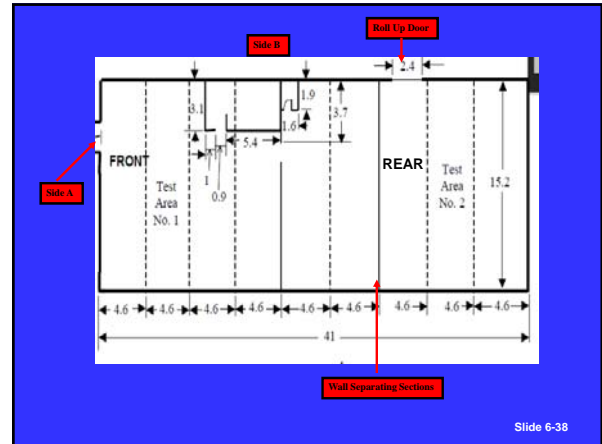
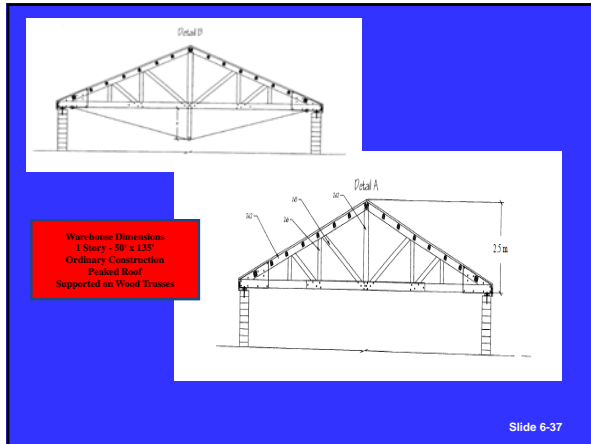


STRUCTURAL COLLAPSE FIRE TEST

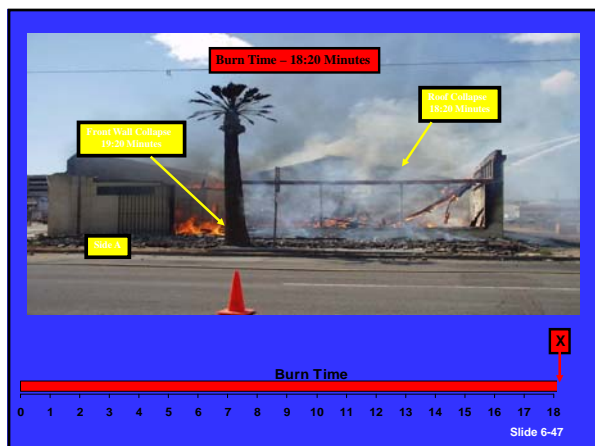
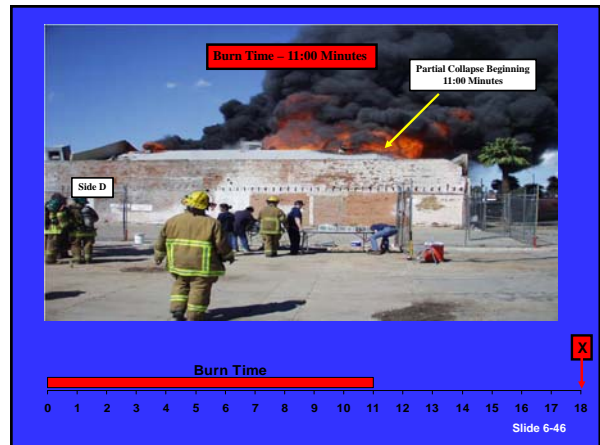
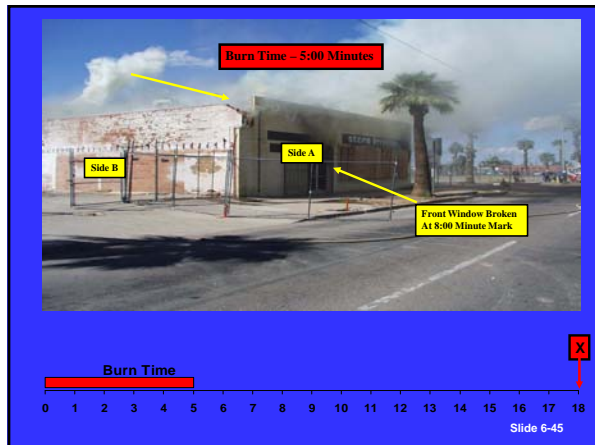
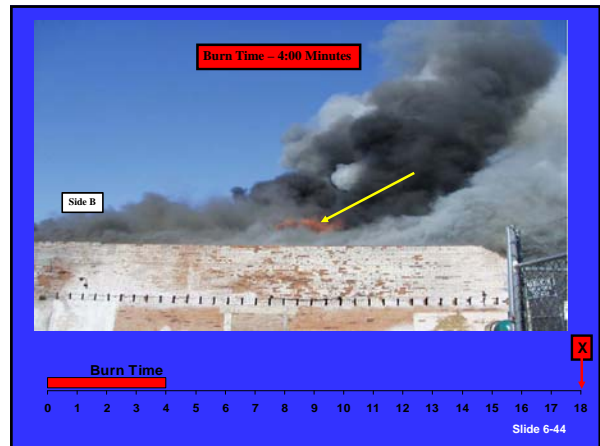
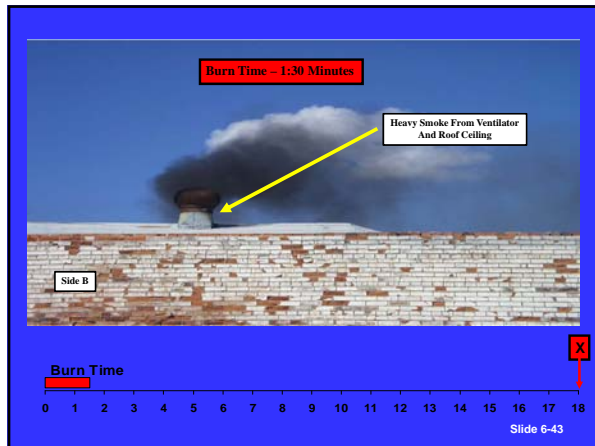
Single story, ordinary construction
warehouse Test #1

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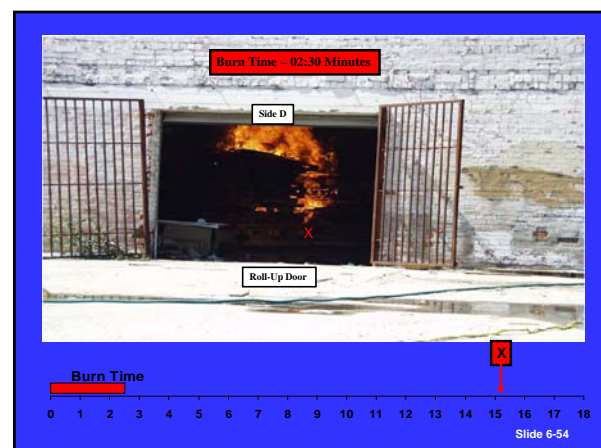
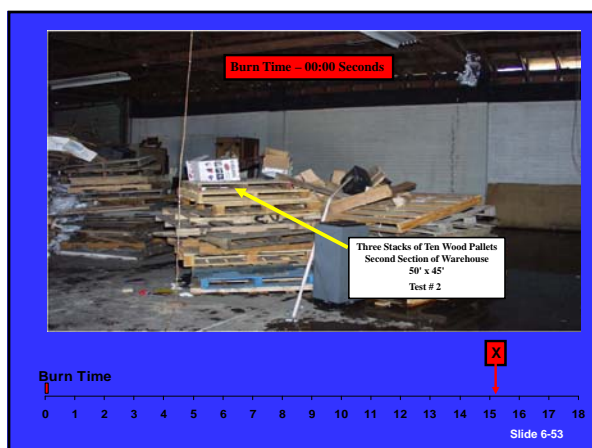
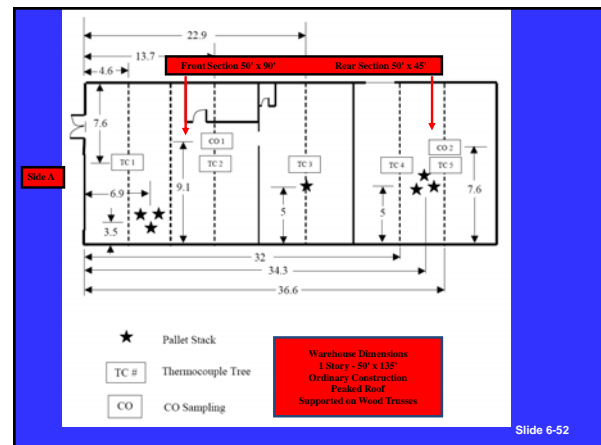
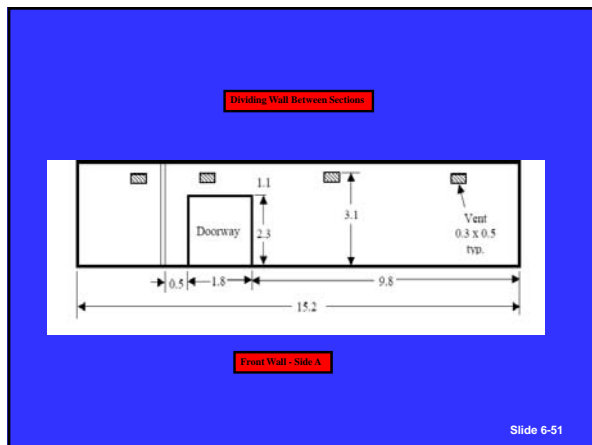
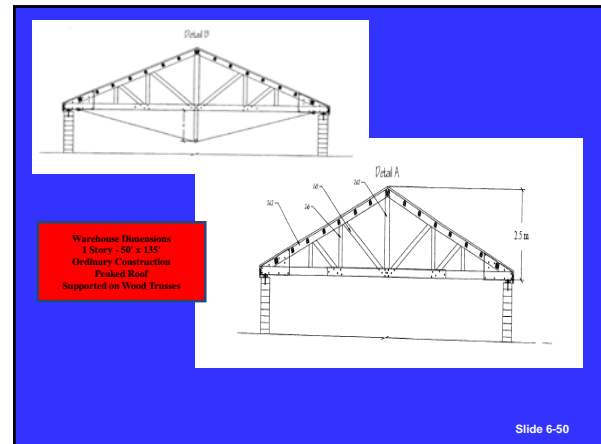
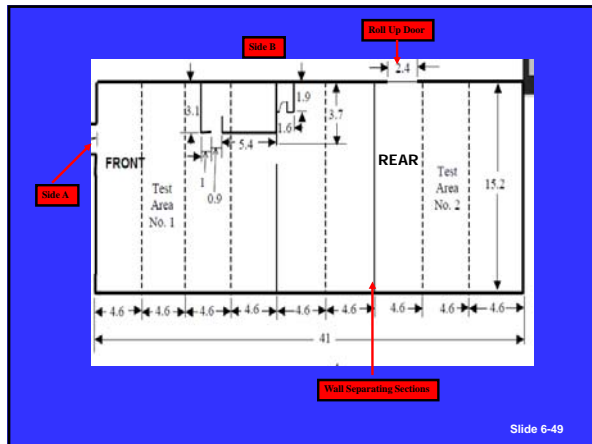


STRUCTURAL COLLAPSE FIRE TEST

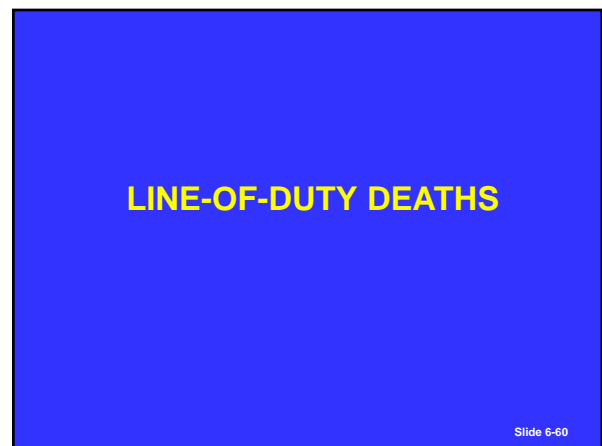
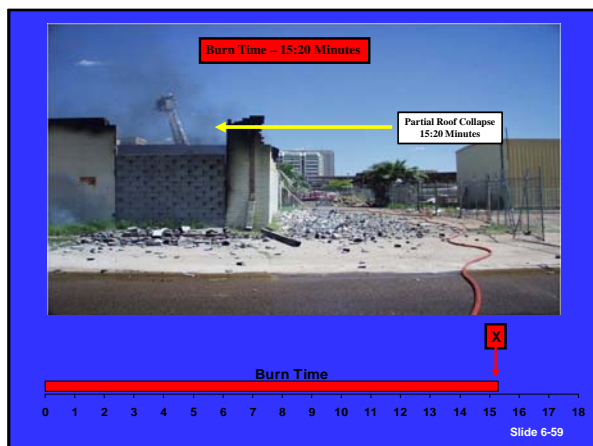
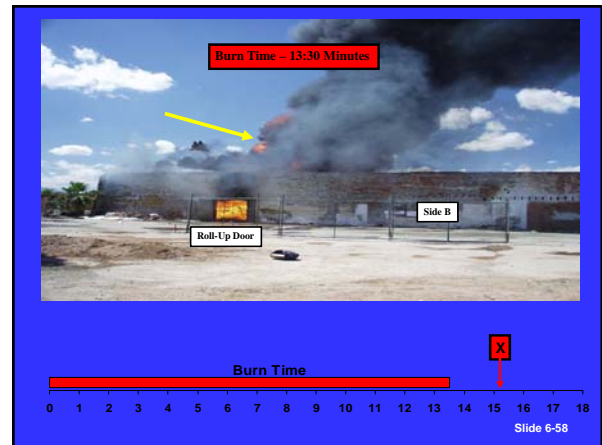
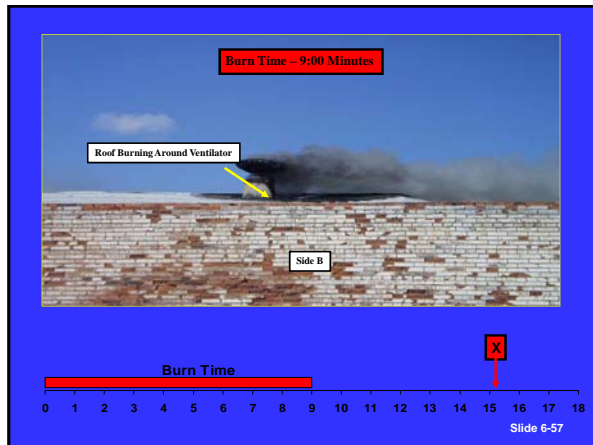
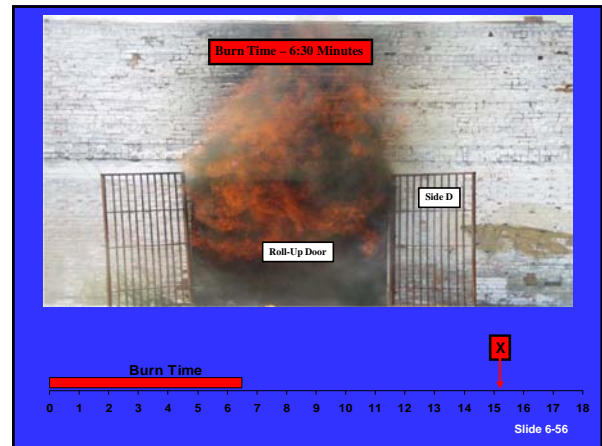
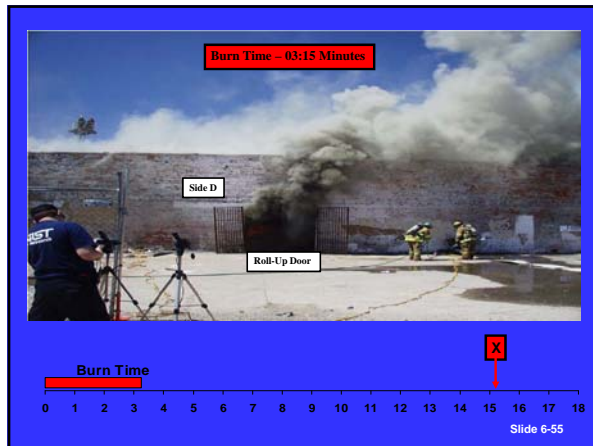
Single story, ordinary construction
warehouse Test #2

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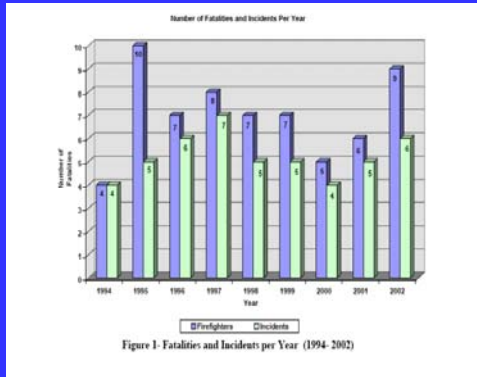
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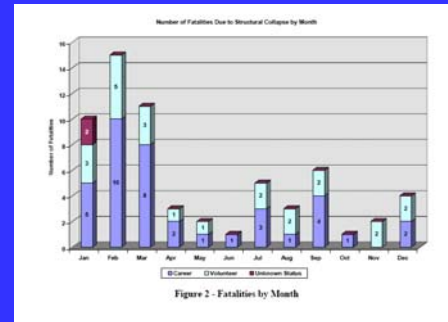
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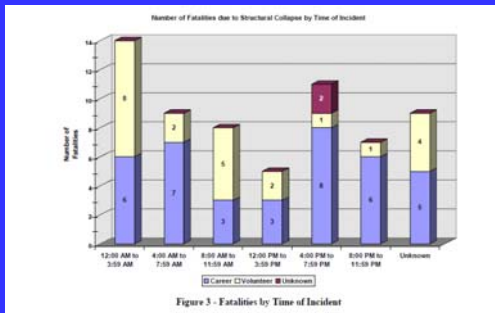
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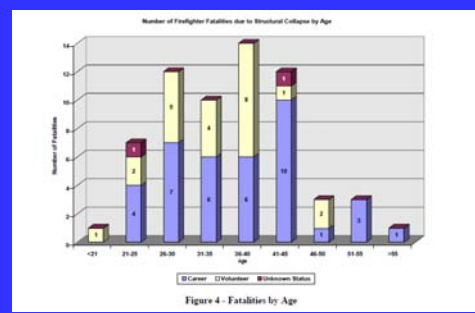
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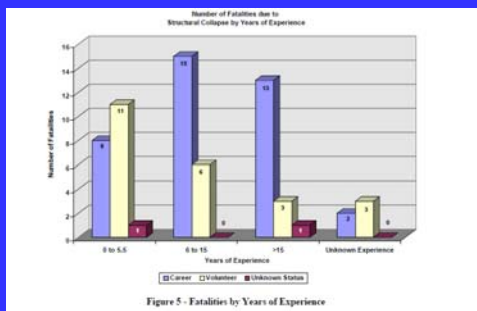
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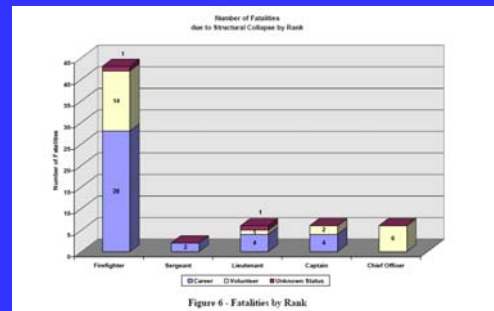
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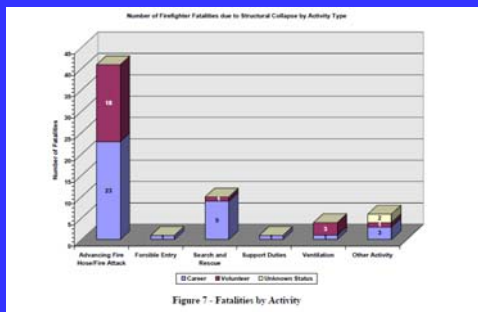


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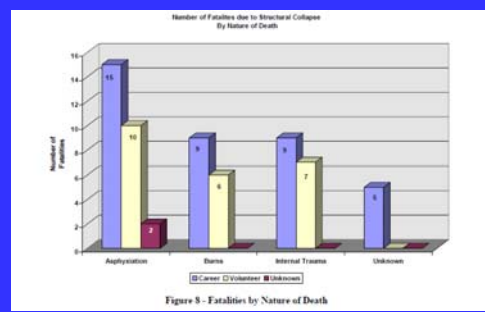


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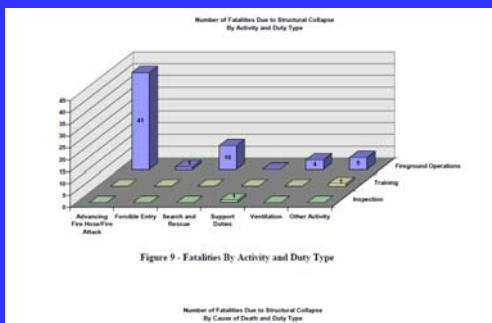
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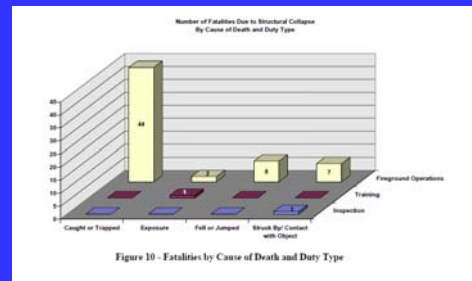
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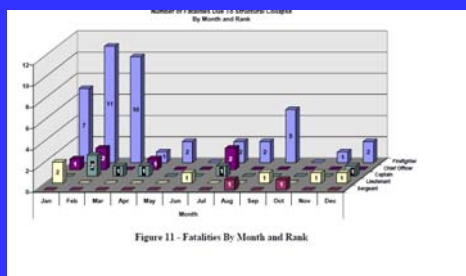
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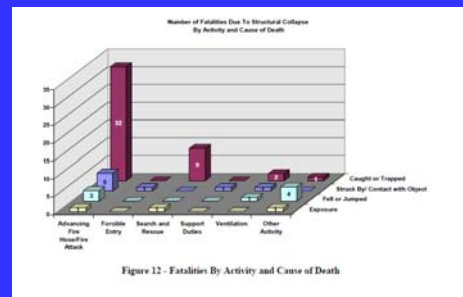
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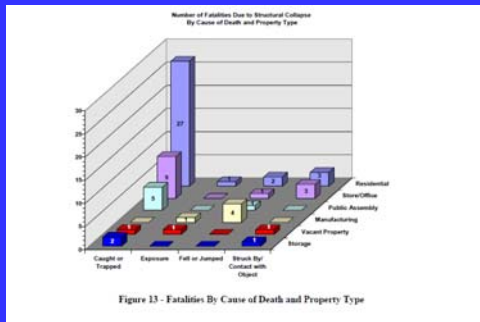


Figure 13 - Fatalities By Cause of Death and Property Type

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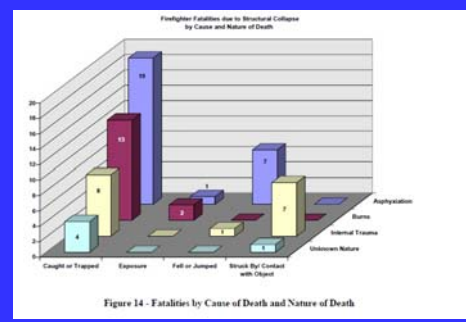


Figure 14 - Fatalities by Cause of Death and Nature of Death

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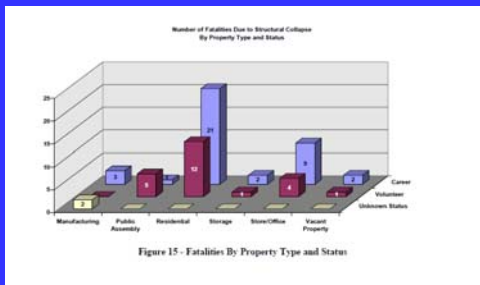


Figure 15 - Fatalities By Property Type and Status

Slide 6-75

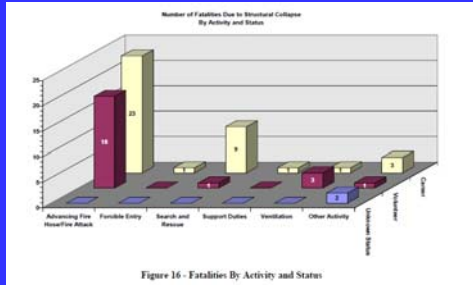


Figure 16 - Fatalities By Activity and Status

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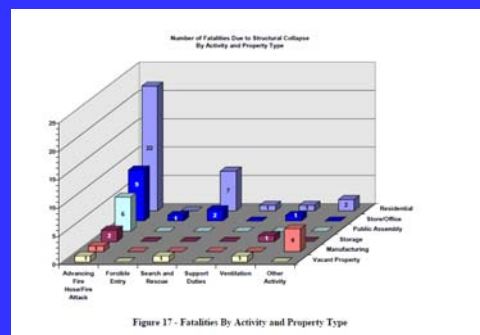


Figure 17 - Fatalities By Activity and Property Type

Slide 6-77

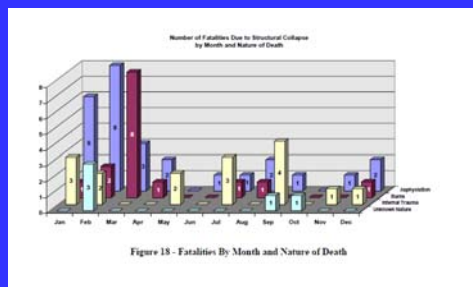
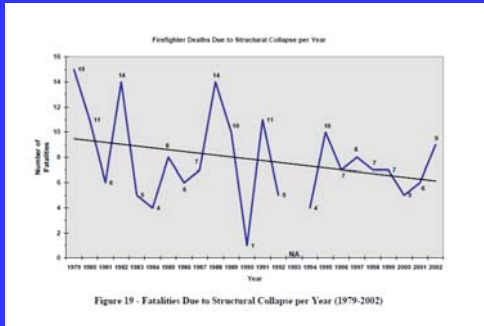


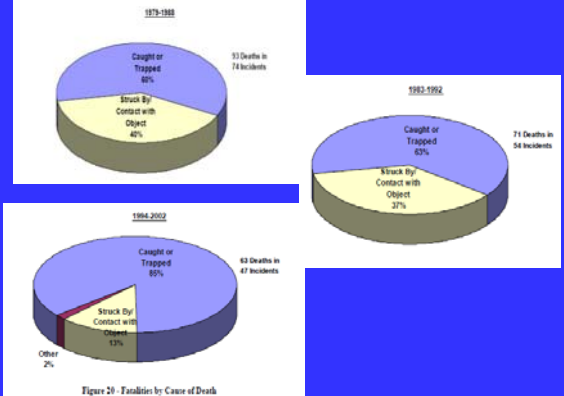
Figure 18 - Fatalities By Month and Nature of Death

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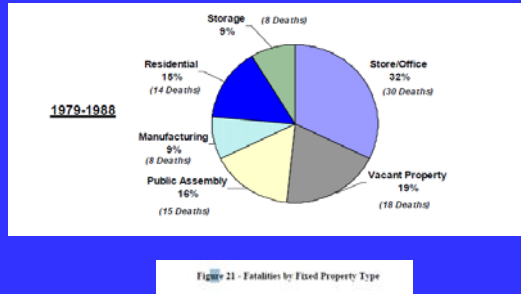
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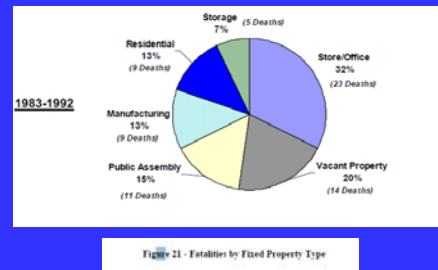
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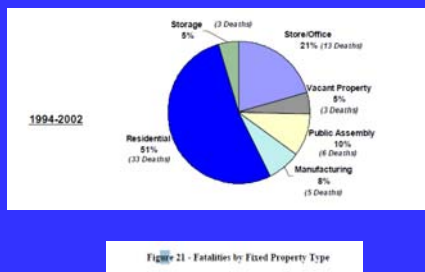
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SUMMARY

- In this lesson you saw the importance of understanding burn time with regard to structural collapse.
- You must consider how long the fire has been burning when you arrive on the scene.
- The LODD statistics provided you with compelling information regarding how and where firefighters become fatalities. Use this information to keep you and your crew safe.

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