

(5)

What Objectives?

- Life safety
- · Property protection
- · Mission protection
- · Heritage preservation
- Environmental protection

Example





- Life safety (NFPA 101, 2013)
 - Except for occupants intimate with ignition, no occupants shall be exposed to instantaneous or cumulative untenable conditions

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(4.)

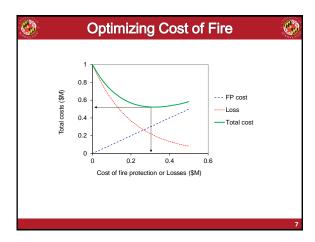
Example



- Property Protection (BMS 92, 1942)
 - "the idea of designing some buildings for the full fire severity corresponding to the occupancy ... is a logical advance in fire protection engineering".



WTC 5, 9-11-01



Levels of Safety Complete safety is impossible to achieve Approach: limit risk to an acceptable level What's risk? the probability of loss or injury to people and property, general determined as product of: Frequency of event Magnitude of consequence



