



Improving Fire Protection System Performance

Victoria B. Valentine, P.E. Director of Professional Qualifications and Industry Alliances



Quality Fire Protection

Building Enclosure Science & Technology





New v. Existing

- What code is/was used?
- What materials were permitted?
- What fire safety provisions were implemented?





Impeding Quality Fire Protection

- Design/Install
 - Errors or omissions during the initial design and installation phase
 - Enforcement of codes, standards or plan corrections not implemented



Impeding Quality Fire Protection (continued)

- Scenario Modifications
 - Changes made to arrangements
 - Partition Walls
 - Storage racks, aisles, and/or heights
 - Alter use of spaces
 - Commodity changes



Stakeholders

- Owners
- Engineers
- Technicians
- Manufacturers
- Installers
- Authorities Having Jurisdiction
- Insurers



Owner Responsibility

How do you care for what you do not know needs care?



Owner Responsibility

• How can the design be amended or corrected without a periodic review?



Owner Responsibility

- Who to call for what?
- What resources do owner's have available to them?



Caring for Existing Systems

- Equipment
 - Types of Systems
 - Age
- Condition
 - Life time care
- Holistic Approach



System Functionality

- Wear-and-Tear
- Corrosion
- Tampering

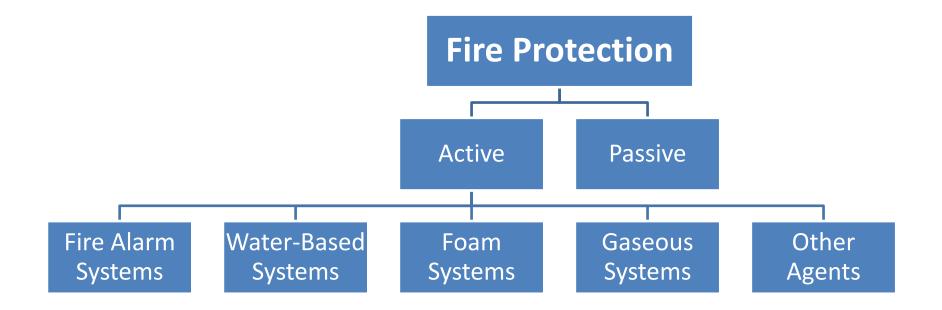




Existing System Design/Install

- Appropriate Designs and Applications
- Quality Installation





MÉXICO 2017



SFPE Whitepaper

SOCIETY OF FIRE PROTECTION ENGINEERS (SFPE) NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS (NSPE) NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)

POSITION STATEMENT

THE ENGINEER AND THE ENGINEERING TECHNICIAN DESIGNING FIRE PROTECTION SYSTEMS

July 28, 2008

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Current Scenario Conditions

- Use/Risk Category
 - Occupancy
 - Function
- Hazards
 - Use
 - Materials
 - Commodities



Fire Protection and Security Systems

- Coordination
- Harmonize upgrades



Resiliency

- Coordination of features
 - Water collection
 - Green roofs
 - Building materials
 - Tightness of construction
- Systems can work together



Alliances

- Holistic approach to fire protection
- More than 100 organizations related to fire protection
- All protection methods need to be maintain properly over the life of the building/space



SFPE Project to Improve Existing Systems

- Active and Passive Fire Protection Representation
- Contractors and Engineers
- Manufacturers
- Owners
- Authorities Having Jurisdiction



SFPE Project to Improve Existing Systems

- Moving forward with:
 - Owner's informational whitepaper
 - Educational programs for owner's audience



Thank you!

valentine@sfpe.org

www.sfpe.org