

Barrier Management  
**FCIA Barrier  
Management Series**  
Barrier Management  
Policies



# Barrier Management Symposium



**Free Symposium  
Sept 5-6  
Steamboat Springs, CO  
Hosted By CAHED**

**Learn about  
Design, Installation,  
Inspection & Maintenance  
of Rated Barrier Systems in  
Healthcare Environments**

***The safety and  
welfare of patients  
depends on many  
things, including a  
healthcare  
environment  
that is fire safe.***

# Objective – Keep Buildings Safe

- Barriers are for Safety – DIIM
  - Properly *Designed* and Specified
    - *Tested and Listed Systems* – Directories, Tables
    - *Specified*
  - Professional *Installation* Companies
  - Properly *Inspected* – Commissioned, by Companies
  - *Maintained* –
    - NFPA 101 - 2000 (TJC, CMS)
    - International Fire Code - IFC 2012 - Annually (Local)
- *Effective Compartmentation for Fire & Life Safety*

# “TOTAL FIRE PROTECTION”

- Effective Compartmentation
  - Fire Barriers, Fire Walls/Floors, Smoke Barriers
  - Firestopping, Fire Dampers, Swinging and Rolling Fire Doors, Fire Rated Glazing
- Detection & Alarm Systems
- Sprinkler Suppression Systems
- Education & Egress—
  - Building Owners & Managers, Building Occupants and Firefighters



# Building & Fire Code Requirements

- *Continuous Fire Resistance*
  - **Walls / Horizontal Assemblies – Continuity**
    - Firestop Products Become Firestop Systems
      - Penetrations
      - Joints – Head /Bottom of Wall – Perimeter Joints
    - Fire & Smoke Damper Duct Systems
    - Fire Doors and Hardware Systems
      - Rolling & Swinging
    - Fire Rated Glazing

# Continuity

## Effective Compartmentation Features



# Barrier Continuity SYSTEMS

- **Products Become Systems Through Testing**
  - **Fire & Smoke Barriers** - ASTM E 119, UL 263
  - **Firestopping** - ASTM E 814 / UL 1479, ULC-S-115, UL 2079, E-1966, E-2307 **E-2837**, ...test method...”
  - **Fire/Smoke Dampers** - UL 555, UL 555S
  - **Swing/Rolling Fire Doors** - UL 10B, 10C
  - **Fire Rated Glazing** - UL 9
- **SYSTEM Testing = Suitability statement for use of a product in a specific system application**





# Products become Systems

## Hose Stream = Shock Test



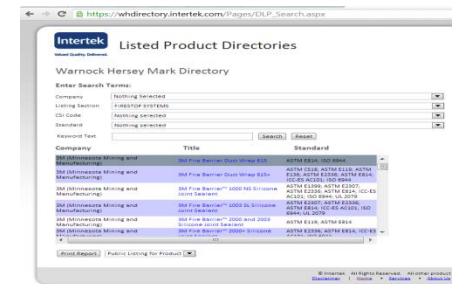


# Barrier Continuity

## Products become SYSTEMS

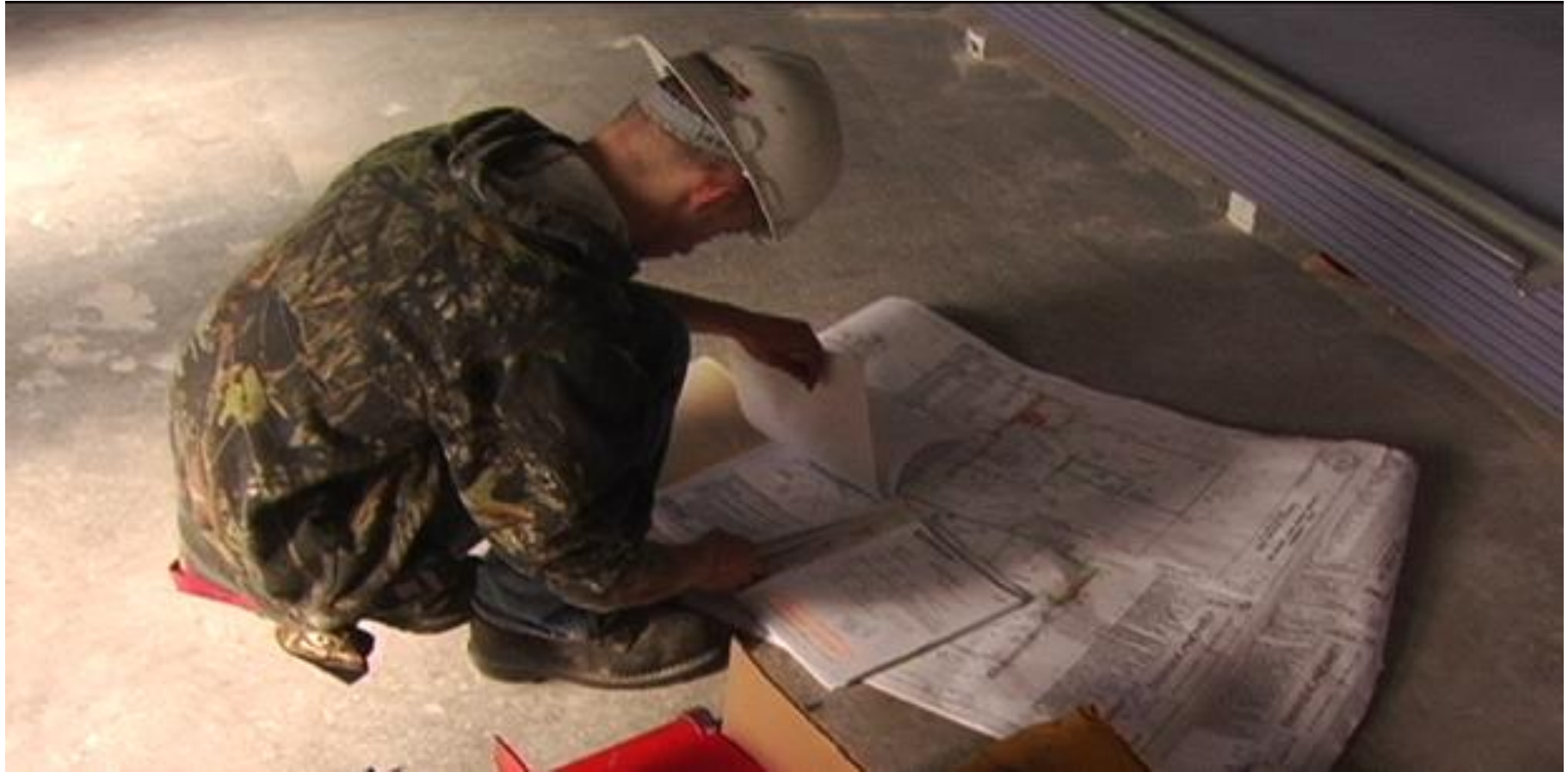
- **Fire Rated Systems Directories –**
  - FM Approvals
  - Intertek
  - UL Fire Resistance Directory

*Systems Selection & Analysis...Not as easy as it looks...*



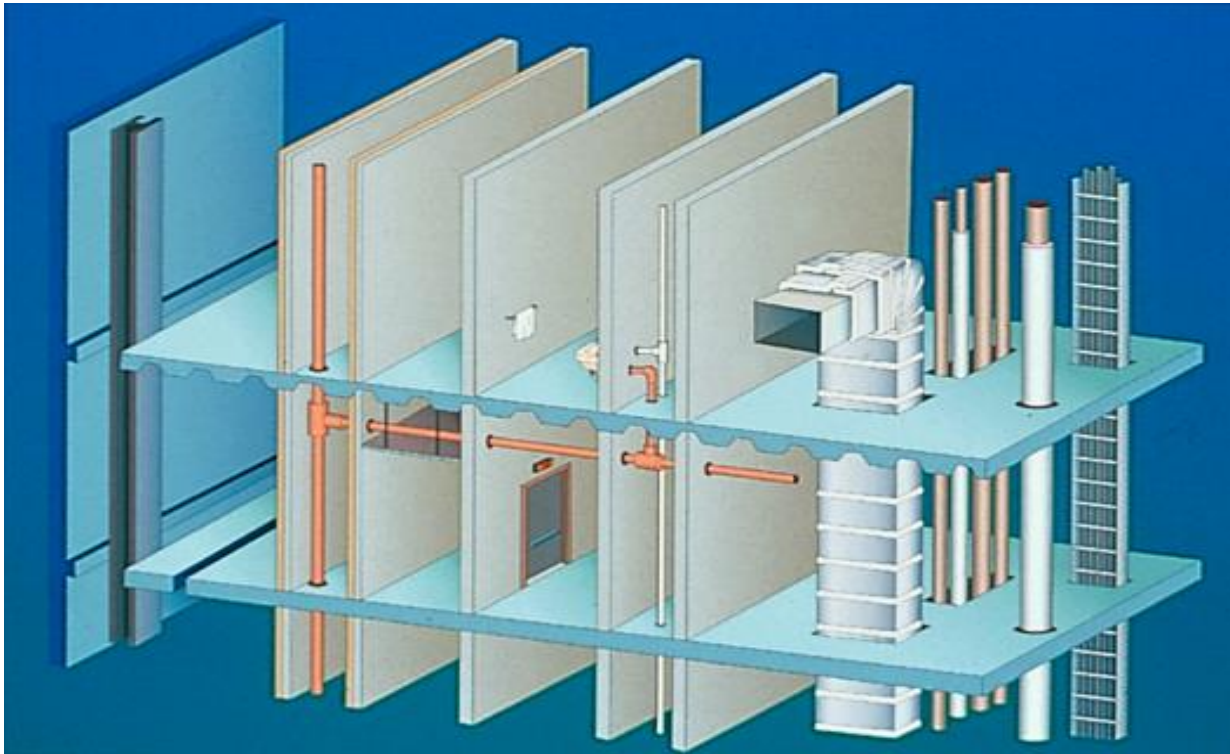
# Barrier Continuity

## I – Installation – Listed Systems



# I- Installation

Who's Responsible, How to Choose???



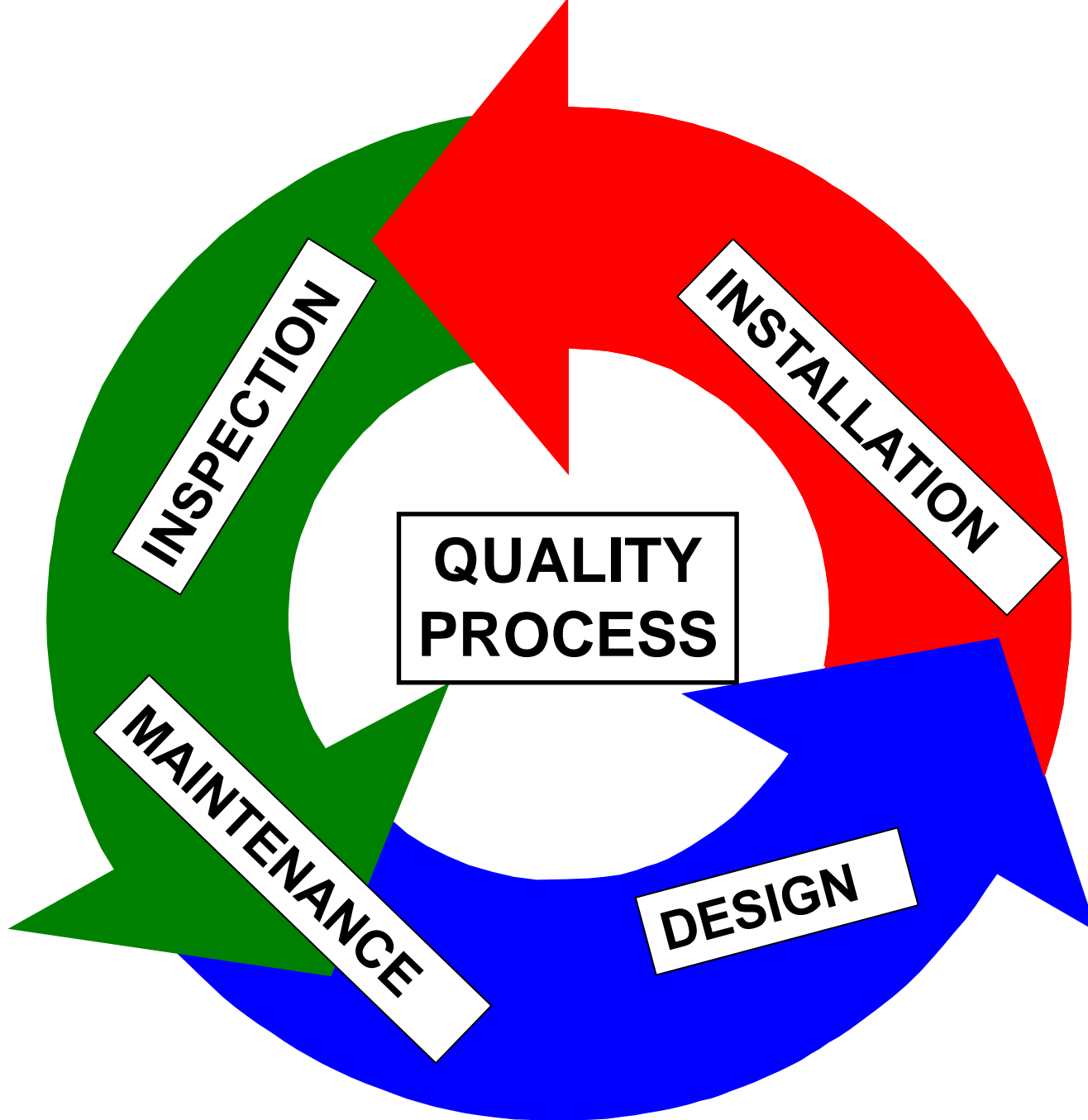
Graphics – STI

# What Contractor Qualifications?

- **FM 4991 – Standard for the Approval of Firestop Contractors**
- **UL Qualified Firestop Contractors**
- **Other Industries...**
  - **FM 4991/UL CONTRACTORS UNDERSTAND SYSTEMS & DOCUMENTATION**

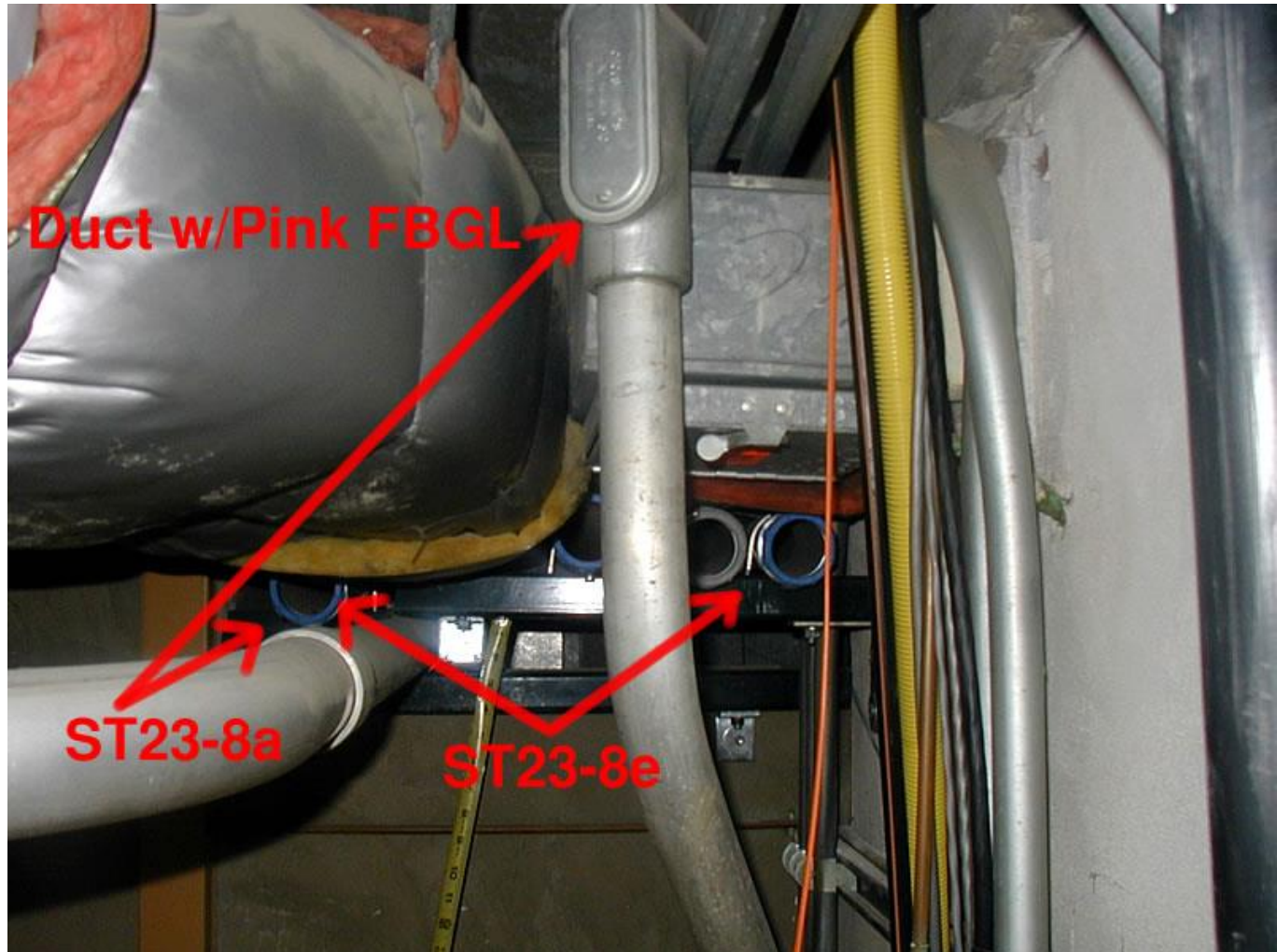
# Why Contractor Qualifications?

- **Built right the first time...**
- **Documentation**
- **SYSTEMS Selection, Analysis, As-Builts**
  - **F, T, L, W Rated Systems**
  - **Tolerances - Annular Space Sizes, Angles**
  - **Gap Sizes - Undercuts - Framing**
  - **Anchors - Spacing – Hardware**
  - **Closers - Activation Sensors, more...**





# Installation & Inspection

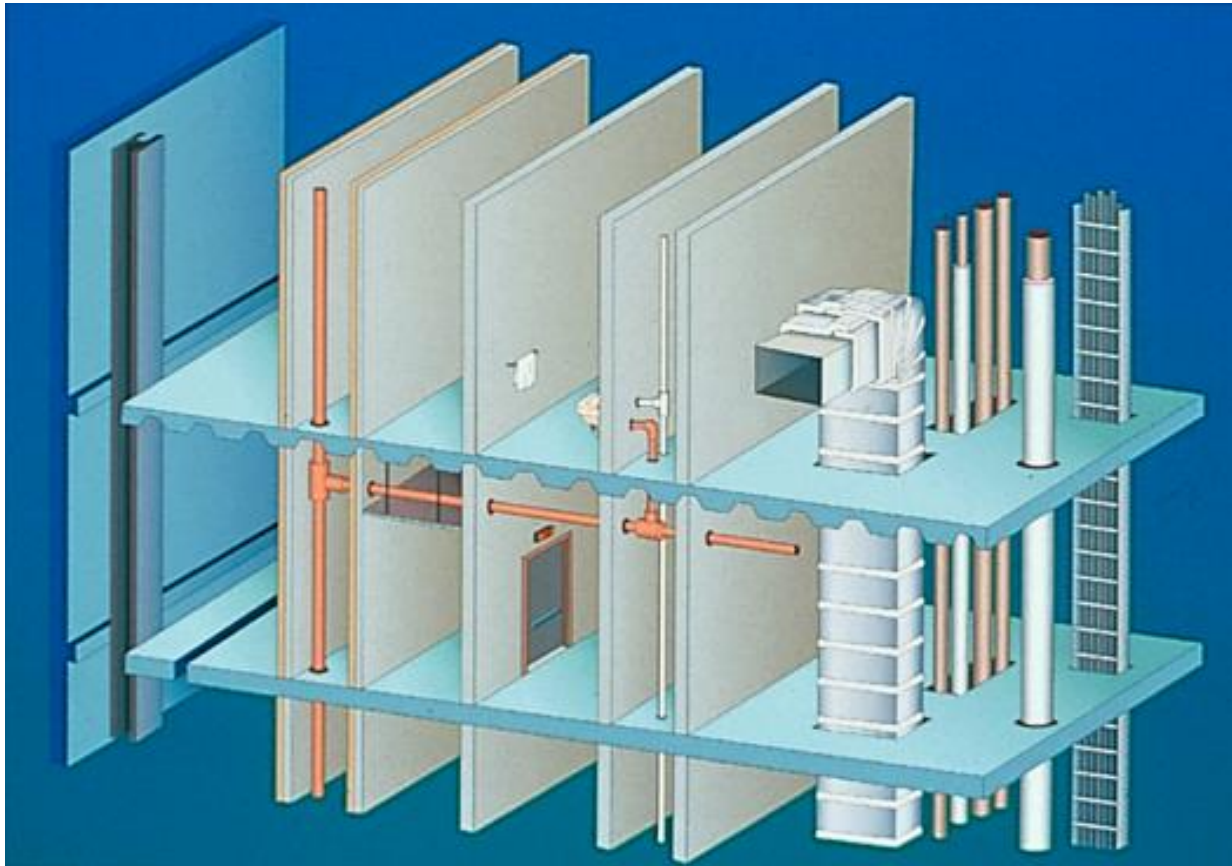


# I – Inspection – Options

- **Contractor Self Inspection**
  - Verify Management System validity
- **Manufacturer Inspection?**
  - Does not exist ... Survey, maybe
- **Special Inspection/Commissioning**
  - Independent 3<sup>rd</sup> Party
  - Destructive, Non Destructive
  - Specified Frequency
  - Inspection Agency Accreditation – IAS AC 291



# M – Maintenance ( & Management )



# **Fire Code Requires Fire & Smoke Resistance Maintenance**

- **International Fire Code**
- **NFPA 101**
- **National Building Code of Canada**
- **UAE Fire and Life Safety Code of Practice**
  
- **Minimum Requirements Stated**
  
- **Frequency**

# National Fire Protection Association - NFPA 101-2012

- **SECTION 4.5.8 Maintenance, Inspection, and Testing.**
- **4.5.8.1 Whenever or wherever any device**, equipment, system, condition, arrangement, level of protection, fire-resistive construction, or any other feature **is required for compliance** with the provisions of this Code, **such device**, equipment, system, condition, arrangement, level of protection, fire-resistive construction, or other feature **shall thereafter be continuously maintained** in accordance with applicable NFPA requirements or requirements developed as part of a performance-based design, or as directed by the AHJ. [101:4.6.12.1]



# National Fire Protection Association - NFPA 101-2012

- **4.5.8.2** No existing life safety feature shall be removed or reduced where such feature is a requirement for new construction. [101:4.6.12.2]
- **4.5.8.3\*** Existing life safety features **obvious to the public**, if not required by the Code, shall be either maintained or removed. [101:4.6.12.3]
- **4.5.8.4** Any device, equipment, system, condition, arrangement, level of protection, fire-resistive construction, or any other feature **requiring periodic testing, inspection, or operation** to ensure its maintenance shall be tested, inspected, or operated as specified elsewhere in this Code or as directed by the AHJ. [101:4.6.12.4]
- **4.5.8.5** Maintenance, inspection, and testing shall be performed under the supervision of a responsible person who shall ensure that testing, inspection, and maintenance are made at specified intervals in accordance with applicable NFPA standards or as directed by the AHJ. [101:4.6.12.5]

# International Fire Code Maintenance



## SECTION 703 FIRE-RESISTANCE-RATED CONSTRUCTION

**703.1 Maintenance.** The required fire resistance rating of fire-resistance rated construction (including walls, fire stops, shaft enclosures, partitions, smoke barriers, floors, fire resistive coatings and sprayed fire resistant materials applied to structural members and fire resistive joint systems) shall be maintained. Such elements shall be visually inspected by the owner annually and properly repaired, restored or replaced when damaged, altered, breached or penetrated.

**Openings** made therein for the passage of pipes, electrical conduit, wires, ducts, air transfer openings, **and holes** made for any reason shall be protected with approved methods capable of resisting the passage of smoke and fire.

# UAE Fire and Life Safety Code of Practice

## Maintenance & Management

### Chapter 1, SECTION 21 Firestopping

21.15.2 The required fire resistance rating of installed firestop systems shall be ***visually inspected by the owner or owner's inspection agency annually.*** Damaged, altered or breached firestop systems shall be properly repaired, restored or replaced to comply with applicable codes as per the guidelines of Civil defense.

21.15.3 Any new **Openings** made therein for the passage of through penetrants, **shall be protected with approved firestop system** to comply with applicable codes as per the guidelines of Civil defense.

# National Fire Code of Canada

## National Fire Code of Canada

- *Division B – Part 2, Building and Occupant Fire Safety*  
**2.2.1.2 – Damage to Fire Separations** – where *fire separations* are damaged so as to affect their integrity, they shall be repaired so that the integrity of the *fire separation* is maintained...
- **FCIA Manual of Practice – Appendix, Maintenance**  
FCIA recommends Barrier Management for Effective Compartmentation and Structural Protection



# Firestop Maintenance

- **Maintenance**
  - Code Required
  - How??
- **How to keep Track – Barrier Management Initiative**
  - Paper
  - Software
  - Labeling



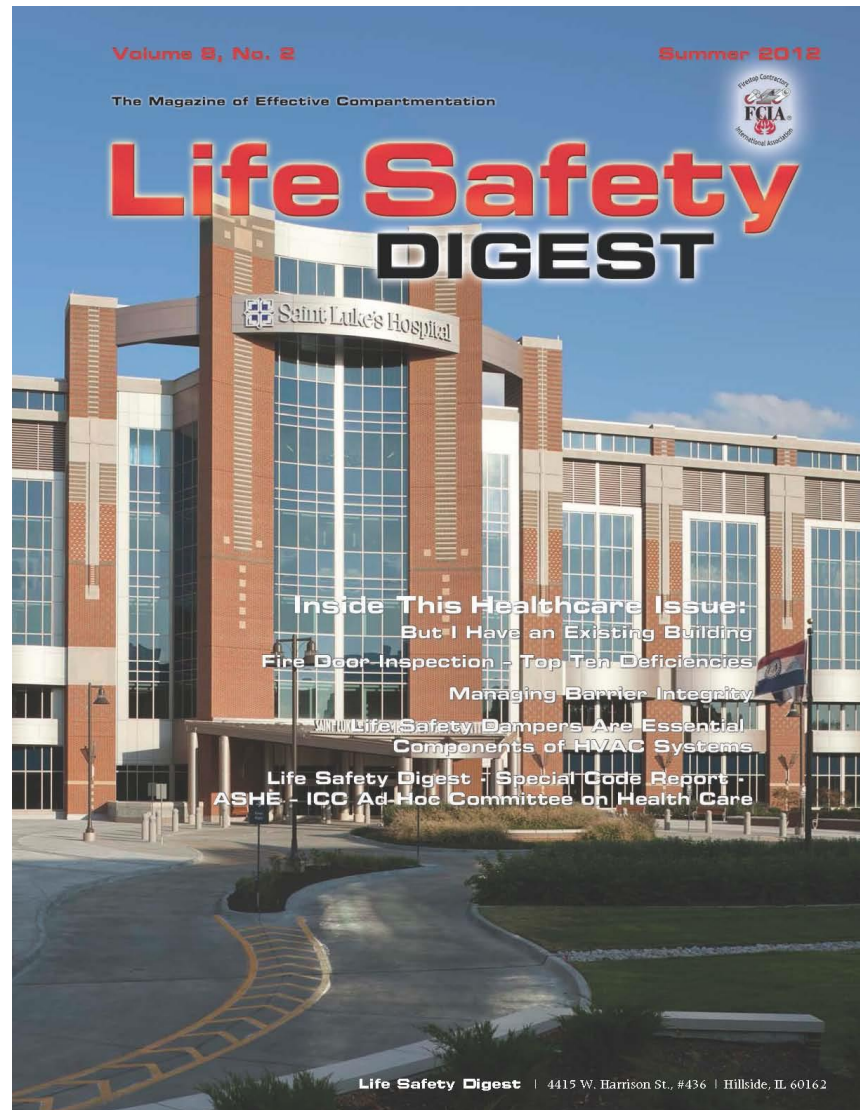
# M–Barrier Management Systems

*‘When you’re up to you’re a \_\_ in alligators, it’s hard to remember you’re there to drain the swamp.’*





# Barrier Management Begins when new construction ends...



# M–Barrier Management Systems

## Starts with CONSTRUCTION

- **NEW Buildings – 07-84-00 Specs**
  - **[www.FCIA.org](http://www.FCIA.org)**
- **Part I – Focus on**
  - **SYSTEMS**
  - **Manufacturers**
  - **Not Products**
- **“Single Manufacturer to the greatest extent possible” – EJ’s**

# M–Barrier Management Systems Starts with CONSTRUCTION

- **NEW Buildings – 07-84-00 Specs**
  - **www.FCIA.org**
- **Part II – Qualifications**
  - **FCIA Member in Good Standing, AND**
  - **FM 4991, Standard for the Approval of Firestop Contractors, OR**
  - **UL Qualified Firestop Contractor Program**
  - **AND**
  - **Manufacturer Accredited, Approved, Trained**

# M–Barrier Management Systems Starts with CONSTRUCTION

- **NEW Buildings – 07-84-00 Specs**
  - **www.FCIA.org**
- **Part II – Qualifications – Special Inspection**
  - **Special Inspection Agency –**
    - **IAS AC 291 Accredited Special Inspection Agencies**
  - **Special Inspector Qualifications**
    - **FM Firestop Exam**
    - **UL Firestop Exam**
    - **AND**
    - **IFC Certification – ASTM E 3038**

# M–Barrier Management Systems Starts with CONSTRUCTION

- **NEW Buildings – 07-84-00 Specs**
- **Part III – Execution**
  - **Special Inspection**
    - **ASTM E 2174 - Penetrations**
    - **ASTM E 2393 - Joints**

# M–Barrier Management Systems Starts with CONSTRUCTION

- **Reference 01-78-00 Closeout Submittals**
  - **01 78 13 Completion and Correction List**
  - **01 78 19 Maintenance Contracts**
  - **01 78 23 Operation and Maintenance Data**
    - **01 78 23.13 Operation Data**
    - **01 78 23.16 Maintenance Data**
    - **01 78 23.19 Preventative Maintenance Instructions**

# M–Barrier Management Systems Starts with CONSTRUCTION

- **Reference 01-78-00 Closeout Submittals**
  - **01 78 29 Final Site Survey**
  - **01 78 33 Bonds**
  - **01 78 36 Warranties**
  - **01 78 39 Project Record Documents**
  - **01 78 43 Spare Parts**
  - **01 78 46 Extra Stock Materials**
  - **01 78 53 Sustainable Design Closeout Documentation**



# M–Barrier Management Systems Starts with CONSTRUCTION

- **Why Specifications Division 01-78-00?**
  - **Fire Resistance Inventory REQUIRED** -
  - **F-113-16 – 2018 International Fire Code**
  - **Section 703.1 becomes 701.1**
    - **Fire Rated Walls & Floors**
    - **Firestop Systems**
    - **Fire & Smoke Dampers**
    - **Fire Rated Rolling & Swinging Doors**
    - **Fire Rated Glazing**

# M–Barrier Management Systems

## Starts with CONSTRUCTION

- **701.6 Owner's responsibility.** The owner shall maintain an inventory of all required *fire-resistance-rated and smoke resistant* construction, and the construction included in Sections 703 through 707 and such construction shall be visually inspected by the *owner annually and properly repaired, restored or replaced where damaged, altered, breached or penetrated.*

# M–Barrier Management Systems

## Starts with CONSTRUCTION

- **701.6, Continued...PC2**
- Records of inspections and repairs shall be maintained. Where concealed, such elements shall not be required to be visually inspected by the *owner unless the concealed space is accessible by the removal or movement of a panel, access door, ceiling tile or similar movable entry to the space.*

# M–Barrier Management Systems

## Starts with CONSTRUCTION

- **703.1 Maintaining protection. Materials and firestop systems used to protect membrane- and through-penetrations in fireresistance- rated construction and construction installed to resist the passage of smoke shall be maintained.**

# M–Barrier Management Systems

## Starts with CONSTRUCTION

- **703.1 ... Continued. PC 1**

The materials and firestop systems shall be securely attached to or bonded to the construction being penetrated with no openings visible through or into the cavity of the construction. Where the system design number is known, the system shall be inspected to the listing criteria and manufacturer's installation instruction.

# M–Barrier Management Systems Building Operational

- **Why Manage Barriers?**
- **International Fire Code**
- **International Property Maintenance Code**

# M–Barrier Management Systems

## Building Operational

### **IPMC SECTION 703**

**[F] 703.1 Fire-resistance-rated assemblies.** The required fire-resistance rating of fire-resistance-rated walls, fire stops, shaft enclosures, partitions and floors shall be maintained.

**[F] 703.2 Opening protectives.** Required opening protectives shall be maintained in an operative condition. Fire and smokestop doors shall be maintained in operable condition. Fire doors and smoke barrier doors shall not be blocked or obstructed or otherwise made inoperable.

**International Existing Building Code**



# M–Barrier Management Systems

## Building Operational

### **International Existing Building Code**

- **Alteration Levels**
  - Level 1
  - Level 2
  - Level 3

# M–Barrier Management Systems

## Building Operational

- **Barrier Management Policy**
  - **Inventory**
  - **Monitor**
  - **Permits**
  - **Management**
  - **Request Budget to Meet Code Requirements**
  - **Implement Maintenance**
    - **In House (Rules)**
    - **Outside Contractor (Rules)**

# M–Barrier Management Systems

## Building Operational

- **Barrier Management Policy**
  - **Items to Survey**
    - **Fire Rated Walls and Floors**
      - **Breach?**
      - **Wall not completed at new construction?**
      - **Wall removed above ceiling?**

# M–Barrier Management Systems

## Building Operational

- “Where concealed, such elements shall not be required to be visually inspected by the *owner unless the concealed space is accessible by the removal or movement of a panel, access door, ceiling tile or similar movable entry to the space.* [IFC 2015, 703.1]

# M–Barrier Management Systems Starts with CONSTRUCTION

- **Fire Rated Walls & Floors**
  - Walls - U, V 400, 900 Designs
  - Floors – P Designs
  - Calculated Fire Resistance
  - Code Defined Fire Resistance - 720
    - Firestop Systems
    - Fire & Smoke Dampers
    - Fire Rated Rolling & Swinging Doors
    - Fire Rated Glazing

# M–Barrier Management Systems

## Building Operational

- **Items to Survey**
- **Fire Doors – Annually – NFPA 80**
  - **Close and Latch**
  - **Holes**
  - **Attach at Frame**
  - **Undercut & Astragals**
  - **Labels Legible**
  - **Labels recertified, requirements of 3<sup>rd</sup> party certification agency**

# M–Barrier Management Systems

## Starts with CONSTRUCTION

- **Firestop Systems – Not Concealed Only**
- **Through & Membrane Penetrations**
  - **Joints**
    - **Wall to Wall**
    - **Floor to Floor**
    - **Head – Bottom of Wall**
    - **Continuity Head of Wall**
  - **Perimeter Fire Containment**



# M–Barrier Management Systems Building Operational

- **Firestop Systems – SYSTEMS**
  - **Visibly Comply with System**
  - **Visibly ‘sealed’**
  - **Without openings**
  - **Firestop Materials & Systems**
  - **Label with System Number**
  - **Securely Attached**

# M–Barrier Management Systems

## Items to Survey

### **Fire Dampers**

- **NFPA 80 –**
- **Initial Installation**
- **At 1 year, each 4 years,**
- **6 years healthcare**
  - **Fire Dampers**
  - **Smoke Dampers**
  - **Combination Fire/Smoke Dampers**
  - **Ceiling Dampers**

# M–Barrier Management Systems

## Items to Survey

- **Fire Rated Glazing**
  - **Verify it's still fire rated**
  - **Glazing / Frame Attachment**
  - **Frame attached to wall**
  - **Glazing Marking as Built**

# M–Barrier Management Systems

## Items to Survey

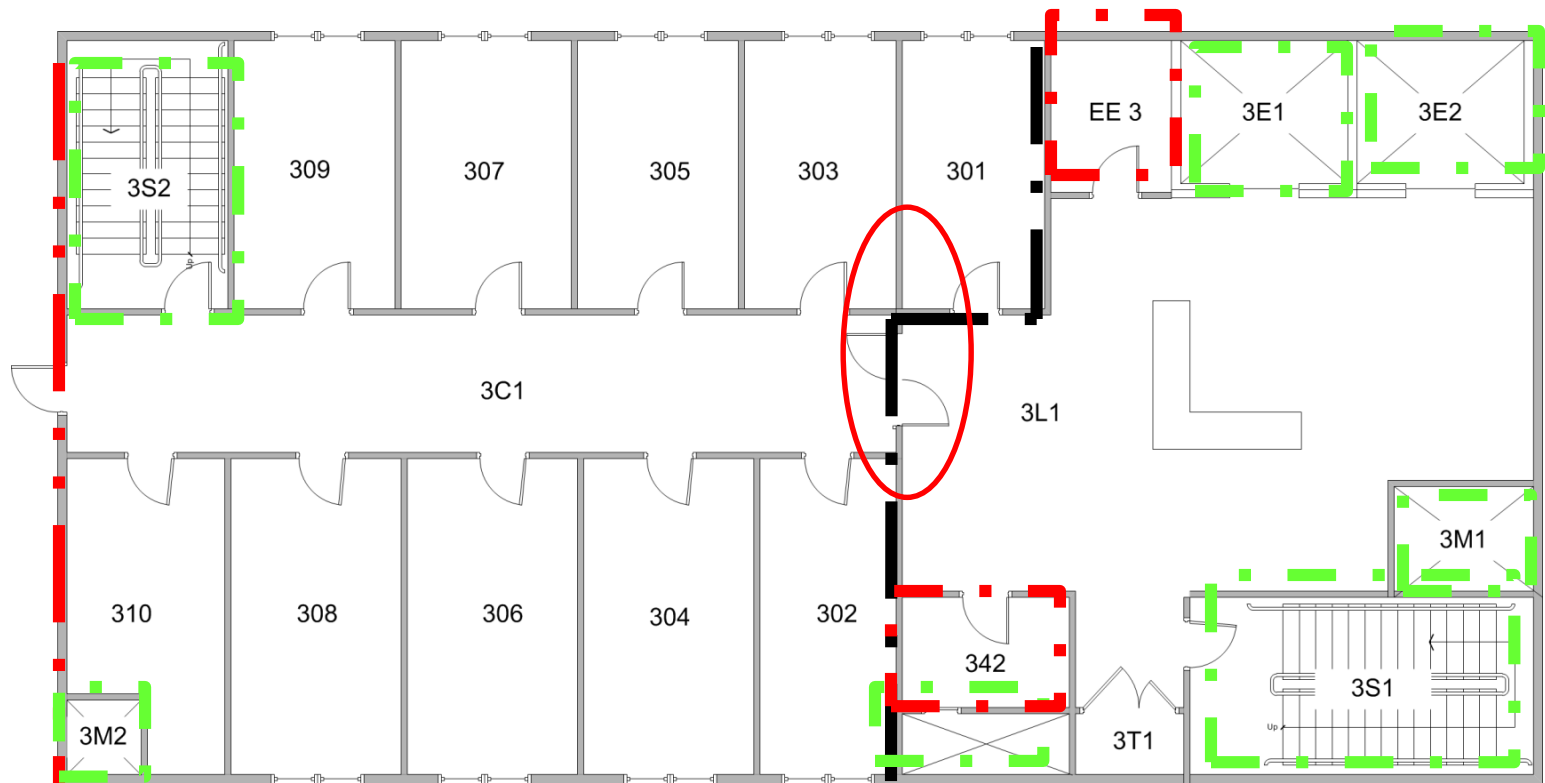
- **Fire Resistance Inventory Systems**
  - Paper & Files
  - Spreadsheets
  - Software

# M–Barrier Management Systems Building Operational

- **Barrier Management Policy**
  - **Repairs**
    - **As originally permitted and *approved***
    - ***As required by Fire Code, Existing Building Code***
    - **If SYSTEMS required, SYSTEMS REPAIRS**
    - **If no Systems, original materials.**
    - **Fire Official**
    - **Insurance Company**

# M-Barrier Management Systems

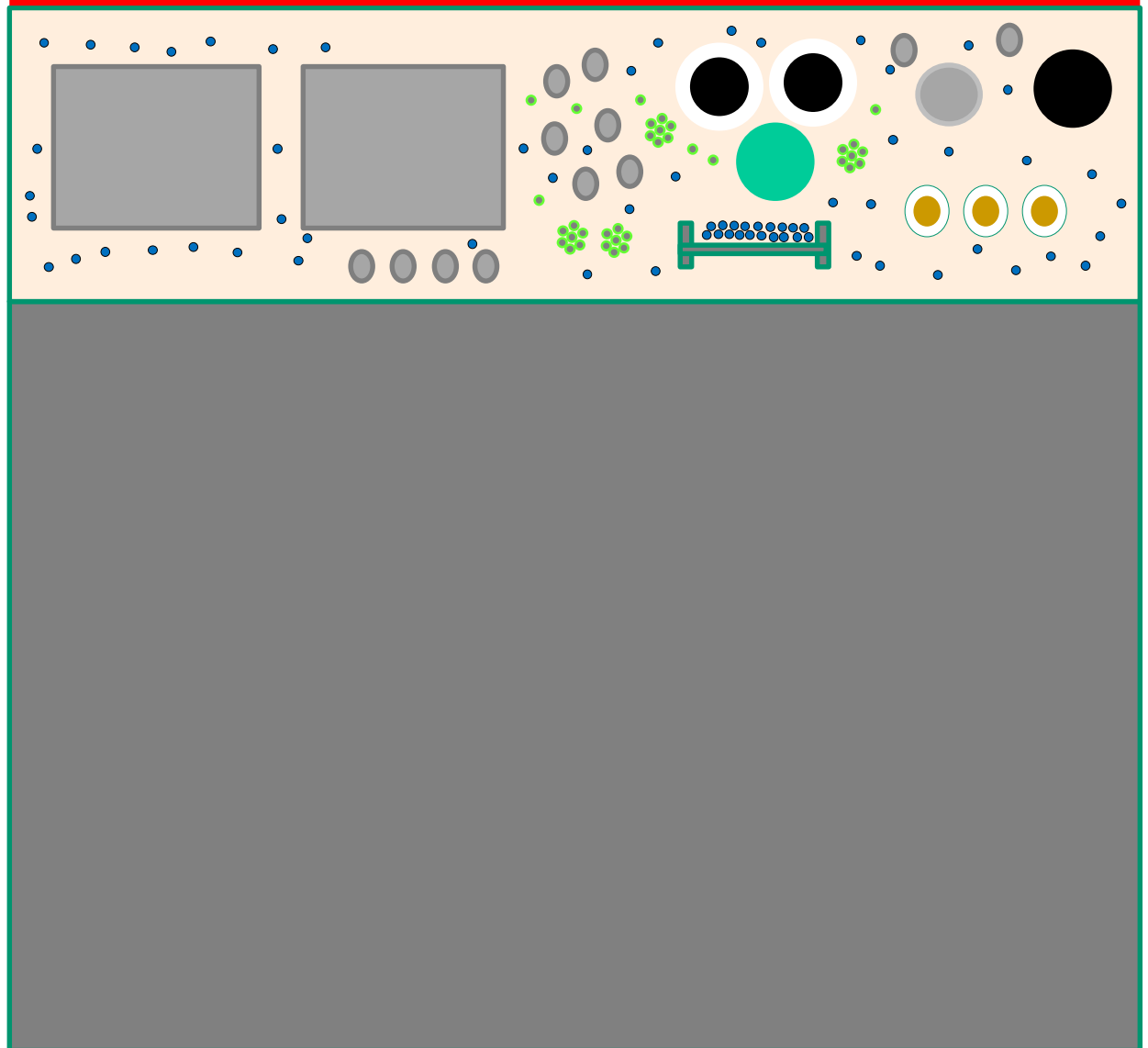
- **Now it's your building....**



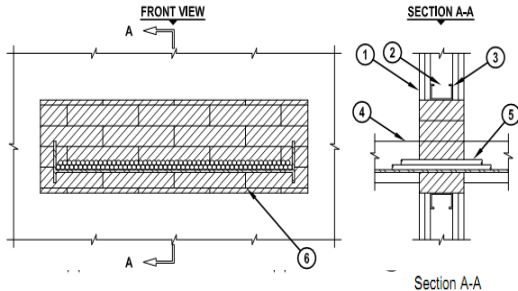
- **Gleeson Powers Graphic**

# WHAT NEEDS TO BE MAINTAINED?

- Fire Resistive Wall Construction
- Fire Doors
- Fire Dampers
- Firestop Systems:
  - Joint Systems
  - Hot and Cold Water Piping
  - Laboratory Waste
  - Medigas Piping
  - Pneumatic Tubing
  - Sprinkler Piping
  - Rigid Electrical Conduits
  - Cable Trays
  - BX Cables
  - Low Voltage Cables
  - and More....
  - **Low Voltage!!!!**



UL/cUL SYSTEM NO. W-L-4011  
**CABLE TRAY THROUGH GYPSUM WALL ASSEMBLY**  
F-RATING = 1 AND 2-HR.  
T-RATING = 0-HR.  
L-RATING AT AMBIENT = 5 CFM/SQ. FT.  
L-RATING AT 400°F = 2 CFM/SQ. FT.





# M–Barrier Management Systems

- **Barrier Management**
  - **TJC # 1 & 2 Violations**
  - **Other Occupancies---Big Problem**
  - **Constant issues**
  - **Control?**
  - **Staff?**
  - **Manage?**



# Barrier Management HUB

- **The HUB is Facility Director!**
- **HUB Controls Actions**
  - **C-Suite Execs – Budgeted Yearly**
  - **Construction –**
    - **In House Crews**
    - **Outside Contractors**
  - **I-T Department –**
    - **In House Crews & Outside Contractors**

# Barrier Hub = Facility Director?

- **YOU answer to...**
  - **Other AHJ's**
  - **C-Suite**
  - **Occupants, Patients**
  - **The Joint Commission**
  - **CMS Inspectors**
  - **Building Official, Fire Marshal**
  - **Insurance Company**

# Barrier Management

## Policy Contents

- **Rules of Engagement in Contracts**
  - Internal Contracts
  - External Contracts
- **Pre Construction Meetings**
- **Barrier Warnings - Markings**
- **Violation Consequences**
- **Ongoing Management**
- **Staff - Occupant Education**



# **Barrier Management Policy Tool**

- **Contracts = Rules**
  - **Internal Contracts -**
    - **In House Departments similar to Outside Contractors**
  - **External Contracts**
    - **AIA Contract**
    - **Marked Fire - Smoke Barrier Actions**
    - **Barrier Permits**
    - **Documentation Systems**
    - **Report**

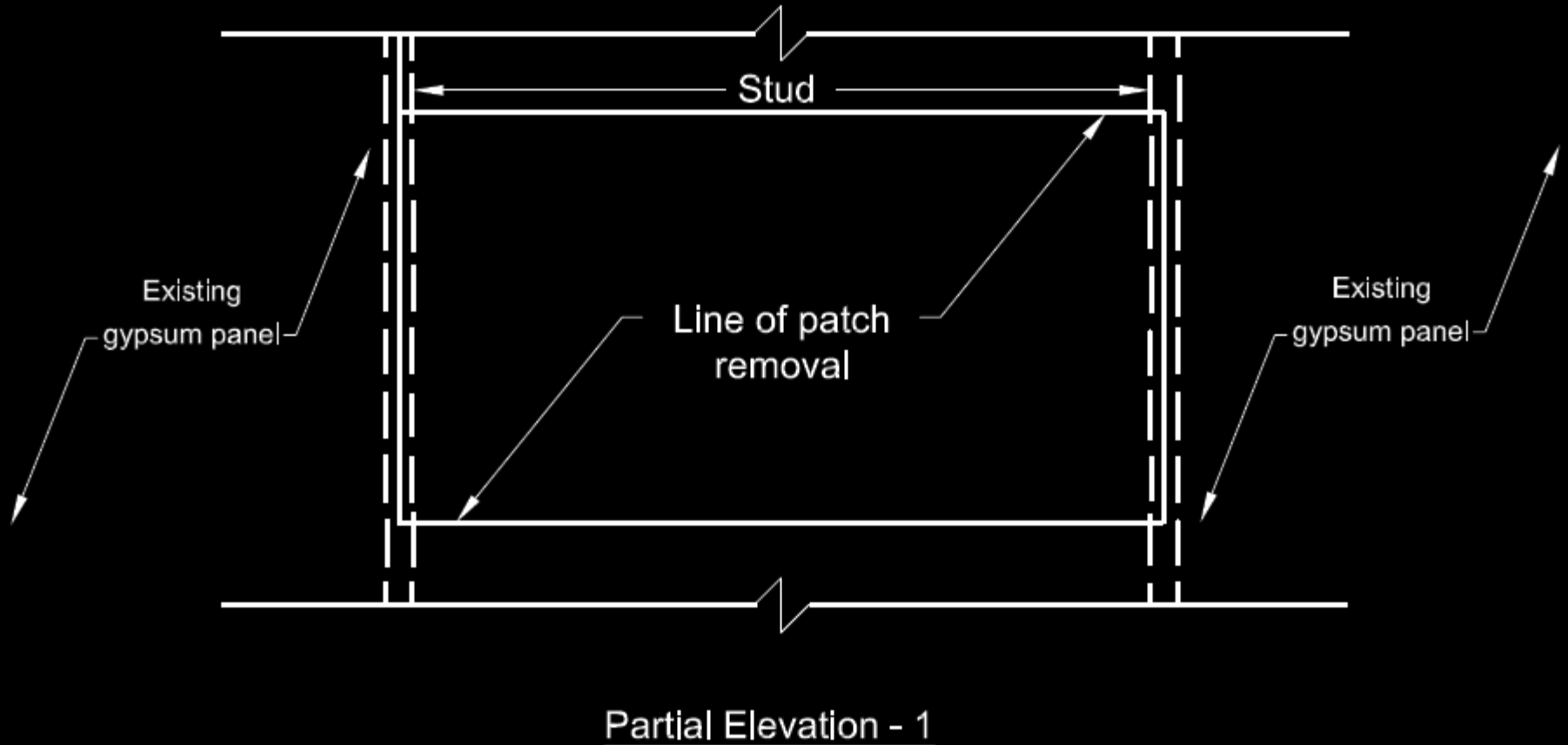
# M–Barrier Management Systems

- **Barrier Inventory Elements**
  - **Life Safety Drawings**
  - **Existing Conditions Documented**
  - **Ongoing Survey Records**
  - **Deficiency Reports**
  - **Systems Documentation Control, Retrieval**

# M–Barrier Management Systems

- **Barrier Repair Examples**

# Gypsum Wallboard Repair Large Holes



- USG Photo

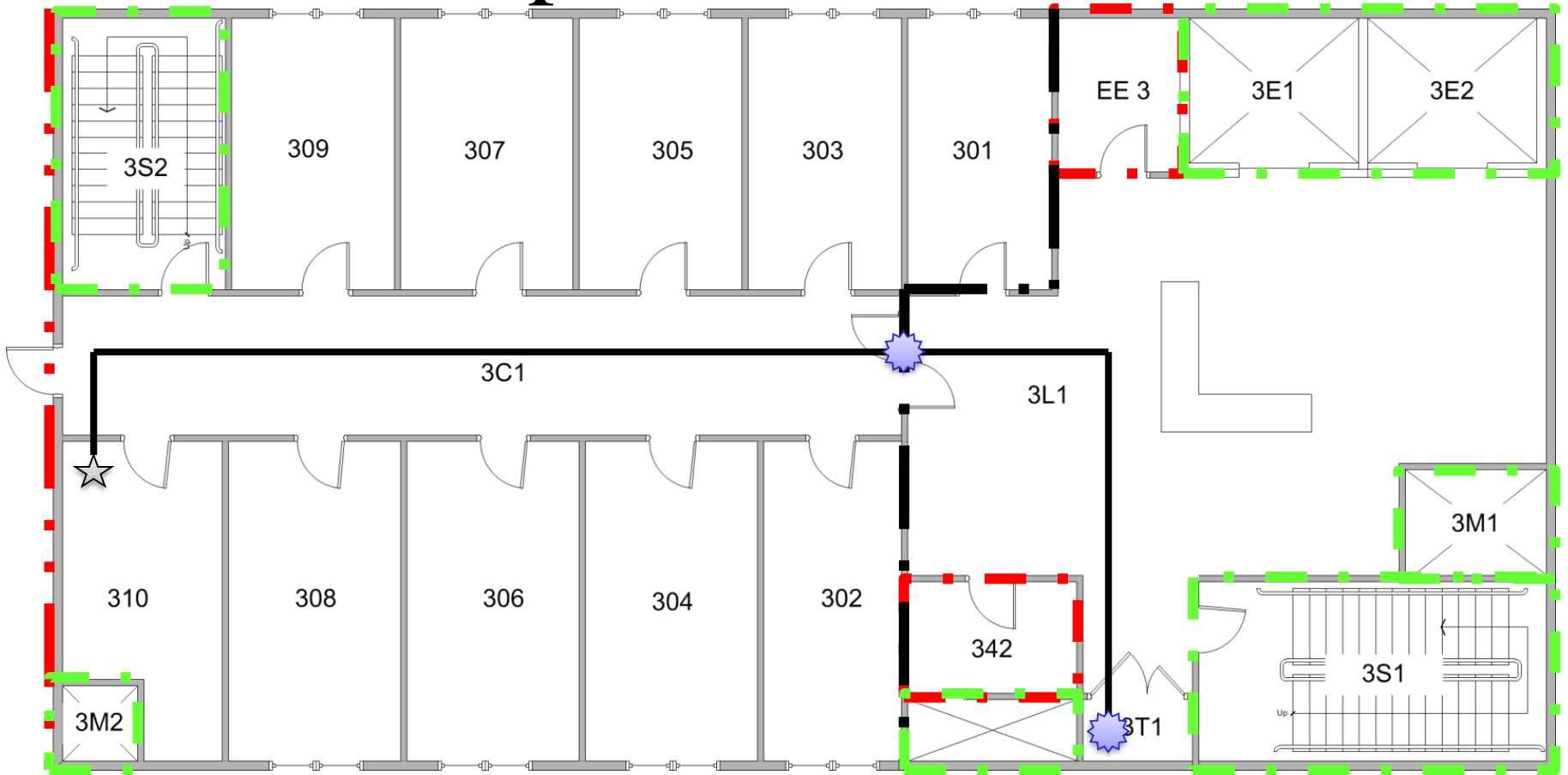


# M–Barrier Management Systems

- **Electronic Best Practice Elements**
  - **Action Oriented**
    - **Projects - Specifications**
    - **Ongoing Surveys – FCIA RPPS 2010-1**
  - **Action Reminders**
  - **In Process Status**
  - **Record Retrieval**



# Sample Permit – Area





Demo Hospital

Permit No.: 2011-005

Area (\*): 3C1/3L1

Side 1: 3C1

Side 2: 3L1



LSR ID: LST-B1-03-007

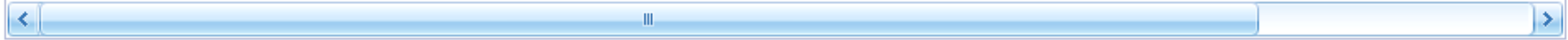
Compliance Status: ● Non-compliant

Survey ID:

LSR Group:

Life Safety Details | Surveys | Photos | Floor Plan Diagrams

LSR Deta...	Status	Latest Ph...	Detail Description	Life Safety T...	Life Safety Sub ...	Letters	Numbers	LSR Count	Notes
> 001	<span style="color: red;">●</span> Non-com...		Firestopping Through Wall Penetration - Firestop	Firestopping	Through Wall Pe...	WL	1000-1999	1	
002	<span style="color: green;">●</span> Compliant		Firestopping Through Wall Penetration - Firestop	Firestopping	Through Wall Pe...	WL	1000-1999	0	
003	<span style="color: green;">●</span> Compliant		Firestopping Through Wall Penetration - Firestop	Firestopping	Through Wall Pe...	WL	5000-5999	1	
004	<span style="color: green;">●</span> Compliant		Firestopping Through Wall Penetration - Firestop	Firestopping	Through Wall Pe...	WL	3000-3999	1 EZ Path	



Add New Life Safety Detail Entry | Edit Selected Life Safety Detail Entry

Edit | Save | Save & Add Another | Save & Close | Delete Record | Cancel

Edit Selected Permit | Delete Selected Row | View/Print Permi | Close Form

# Corrective Action Report

Building/Floor/Area:  
Building 1 \ 3rd Floor \ 3C1/3L1

LSR # - Detail#:  
LST-B1-03-007 - 001

Life Safety Type: Firestopping

Life Safety Sub Type: Through Wall Penetration - Firestop Systems

Penetration Type: EMT or Conduit

Penetration Size: Max 1"

Annular Space: MIN: 0 to .50", MAX:

Wall Rating Type:

Date Completed: May-02-2011

Classified System:

Survey #: Survey

Survey Date:

Deficiency Description: No firestopping

Suggested CA Notes: Install UL Listed Firestopping System at penetration/joint

Survey Notes:

CA Notes:

Survey Photo



Side: 37296

Photo ID: 37296

Survey Photo



Side: 2: 3L1

Photo ID: 37297

Corrective Action Photo

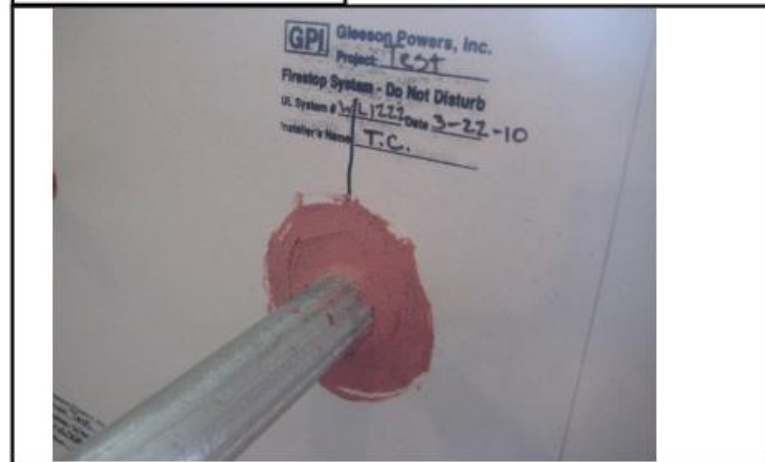


Side: 1: 3C1

Photo Notes:

Photo ID: 37298

Corrective Action Photo



Side: 2: 3L1

Photo Notes:

Photo ID: 37299

# **Barrier Management Policy Tool**

- **Pre Construction Meetings - Education**
  - **Barrier Markings Mean...**
  - **Actions when at Barriers Required...**
    - **Permit required – Above Ceiling, Barrier Hole...**
    - **Infection Control Rules**
    - **Healthcare facility Rules**

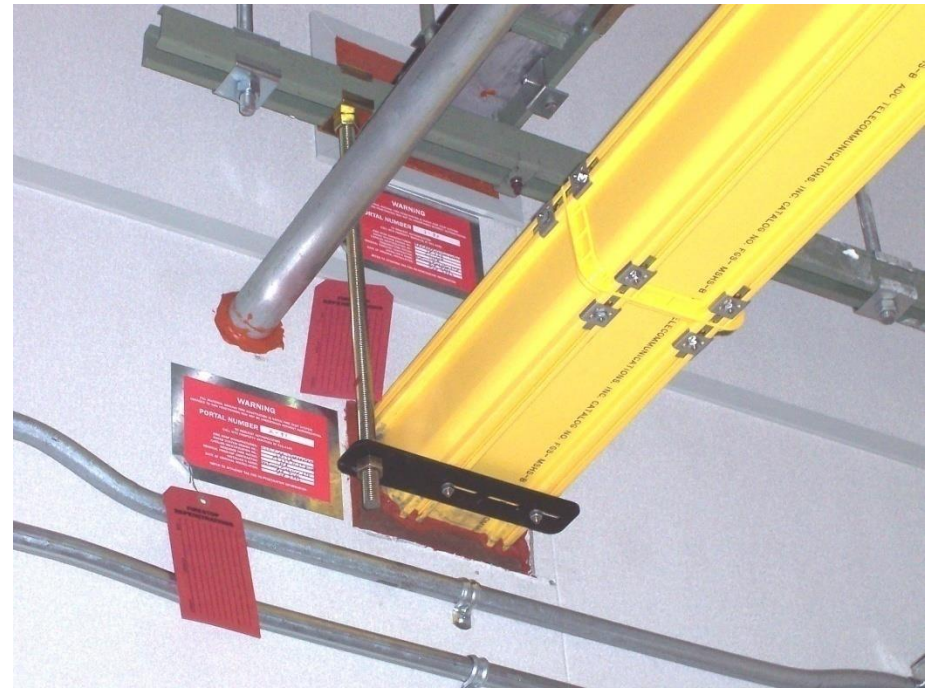
# Barrier Management Policy Tool

- Barrier Warnings on ASSEMBLIES
- International Building Code – 2009++

ATTENTION: PRIOR TO WORKMAN CUTTING INTO THIS WALL CONTACT THE BUILDING REPRESENTATIVE

**2 HR RATED  
FIRE WALL**

**PROTECT ALL OPENINGS  
AND PENETRATIONS**



# Barrier Management

## Policy = Tool

**703.7 Marking and identification.** *Fire walls, fire barriers, fire partitions, smoke barriers and smoke partitions or any other wall required to have protected openings or penetrations shall be effectively and permanently identified with signs or stenciling. Such identification shall:*

1. Be located in accessible concealed floor, floor-ceiling or *attic spaces*;
2. Be located within 15 feet (4572 mm ) of the end of each wall and at intervals not exceeding 30 feet (9144 mm) measured horizontally along the wall or partition; and
3. Include lettering **not less than 3 inches (76 mm ) in height with a minimum 3/8 inch (9.5 mm) stroke** in a contrasting color incorporating the suggested wording.

**“FIRE AND/OR SMOKE BARRIER—PROTECT ALL OPENINGS”**  
or other wording.

**Exception:** Walls in Group R-2 occupancies that do not have a removable decorative ceiling allowing access to the concealed space.



# Barrier Management Policy = Tool





# **Barrier Management Policy Tool**

- **Violation Consequences**
  - **In House –**
    - **2 strikes & work reassignment to cleaning...**
    - **Others...**
  - **Outside Contractors**
    - **2 strikes & not allowed to work above ceilings**
    - **Others...**

# **Barrier Management Policy Tool**

- **Find Violators....**
  - **Staff Awards**

# **Barrier Management Policy Tool**

- **Ongoing Management**
  - **Engineering Staff Reviews**
  - **User Staff Reviews**
  - **Inside Construction**
  - **Outside Contractor**

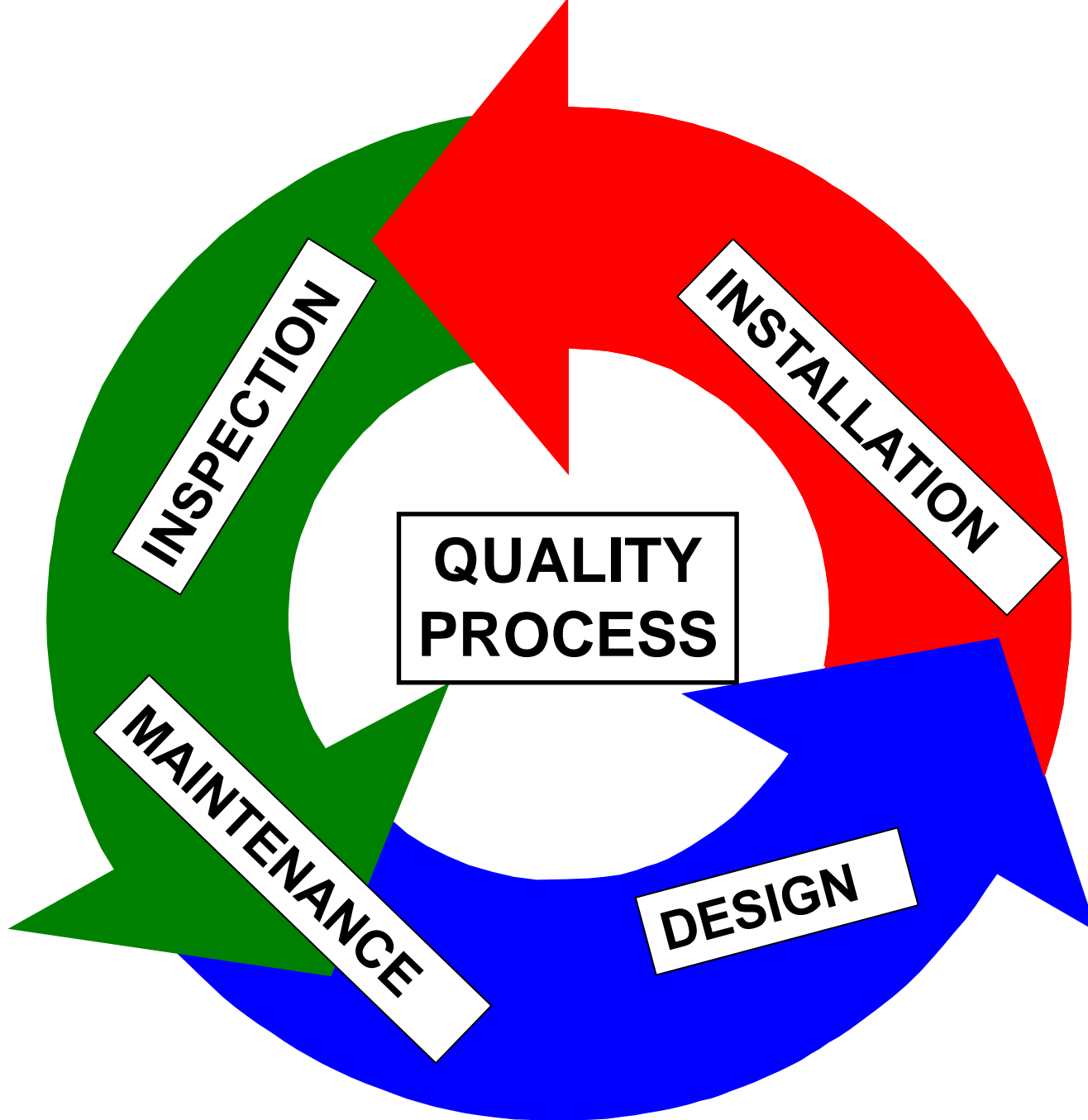
# **Barrier Management Policy Tool**

- **Education - Healthcare Staff – Simple??**
  - **Fire Doors & Hardware – Simple things...**
    - **Close & Latch**
    - **Holes in Door**
  - **Ladder = ?? Permit Sticker?**
  - **Fire Rated Walls - Holes**
    - **Accidental**
    - **Workers**

# “TOTAL FIRE PROTECTION”

- Effective Compartmentation
  - Fire Barriers, Fire Walls/Floors, Smoke Barriers
  - Firestopping, Fire Dampers, Swinging and Rolling Fire Doors, Fire Rated Glazing
- Detection & Alarm Systems
- Sprinkler Suppression Systems
- Education & Egress—
  - Building Owners & Managers, Building Occupants and Firefighters





# “DIIM”

- Barriers are for Safety – DIIM
  - Properly *Designed* and Specified
    - *Tested and Listed Systems* – Directories,
  - Professional *Installation* - Companies
  - Properly *Inspected* – Commissioned
  - *Maintained* - Annually – IFC 2012, NFPA 101, International Fire Code

# Effective Compartmentation is a SYSTEM







# Contacts

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Barrier Management

**FCIA Barrier  
Management Series**



# Barrier Management Systems

## Best Practices

