

Barrier Management Symposium

Objective

Build & Maintain Safe Buildings - DIIM



MISSOURI SOCIETY FOR HEALTHCARE ENGINEERING
Member of ASHE since 1972
mosheonline.org



Details

- Emergency Exits
- Restrooms
- Mobile Phones...
- ***Thanks...***
 - ***MOSHE/SICHE Staff***
 - ***MOSHE/SICHE Committee***

Objective – Share Knowledge

- **Barriers are for Safety – DIIM**

- Properly ***Designed*** and Specified

- ***Tested and Listed Systems*** – Directories, Tables

- *Specified by CCS, RSW*

- Professional ***Installation***, Companies, Workforce

- Properly ***Inspected*** – Companies, Workforce

- ***Maintained*** –

- NFPA 101 - (TJC, CMS)

- International Fire Code - IFC 2012 - 2018- Annually

= Effective Compartmentation

for Fire & Life Safety

Barrier Management Symposium

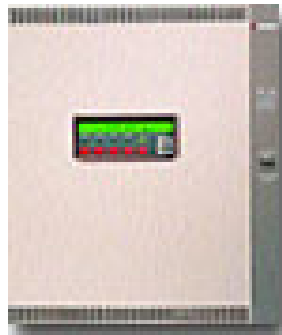
- **World Travelled Faculty**

- Bill McHugh, FCIA & MOSHE
- Rich Walke, UL , Testing, Glazing
- Lennon Peake/Bill Koffel; Koffel Associates, Barriers
- Nestor Sanchez, Gypsum Assoc., USG Corp.
- Rich Walke, UL – Fire Rated Glazing
- Marc Sorge, Greenheck – Fire & Smoke Dampers
- Bill McHugh, FCIA – Firestopping
- Laura Frye, DHI – Fire Doors
- Bill McHugh, Barrier Management Systems

“TOTAL FIRE PROTECTION”

Fire & Smoke Resistance

- 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 – Ingress/Egress



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It's about Effective Compartmentation





Top 10 Findings – summary chart – 3 years

Standard	2017	2016	2015
LS.02.01.35	86%	51%	46%
EC.02.05.01	73%	57%	58%
IC.02.02.01	72%	60%	59%
LS.02.01.30	72%	50%	50%
EC.02.06.01	70%	68%	62%
LS.02.01.10	66%	48%	45%
EC.02.02.01	63%	47%	39%
EC.02.05.05	62%	18%	12%
LS.02.01.20	62%	49%	51%
EC.02.05.09	59%	29%	30%



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LS.02.01.10: EP-10: What the Survey Revealed



The Wall above the building separation was not constructed from floor slab to ceiling deck, therefore, non compliant

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LS.02.01.10 – EP-14 – Barrier Penetrations



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LS.02.01.10 – EP-14 – Barrier Penetrations



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LS.02.01.10 EP 7, now EP 11 Rated Door



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LS.02.01.10: Facility Scenario Assessment: Door and Chase



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LS.02.01.10 – Label on TOP of door!



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Barriers Not Alone...



LS.02.01.35 – EP-4 - Sprinkler piping supports nothing else.



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DNV-GL & Barrier Management

Required Barrier Penetration Permit Programs

SR.5 The Life Safety Management System shall include in the elements of SR.4d a **written plan** for the protection of the integrity of hospital smoke and fire barriers.

The plan shall include:

SR.5a Name(s) of **Responsible hospital staff** for barrier protection program

SR.5b Requirement for **written permission for anyone** (including all hospital staff, contractors and vendors) to penetrate a smoke or fire barrier wall, ceiling or floor

SR.5c **Input from Infection Control and Prevention Practitioner** on critical clinical areas prior to issuance of written permit for performing work on barriers

SR.5d **Establishment of monitoring process** to ensure all work is completed correctly



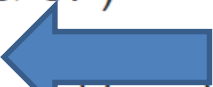
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HFAP & Barrier Management



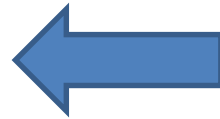
Life Safety Plans

HFAP standard 13.06.04 - LS Drawings

- Rated walls and barriers 
- Exits, exit enclosures, horiz. exits, exit discharge 
- Hazardous Rooms
- Smoke barriers, smoke compartment area & travel distances
- Travel distance for the farthest location to the closest exit
- Suites (boundaries & SF)
- Smoke partitions 
- Areas that are fire sprinklered / not fire sprinklered

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HFAP & Barrier Management



Jonathan Flannery, ASHE

Summary

- **Leadership** must be **aware**
 - Physical environment fails clinical needs cannot be met
- Barrier Systems Essential to Protect Occupants, Staff, Patients
- Penetrations and Door Failures =
 - Big Issues...But....It's about the Barriers.

▶▶▶ NEW! Barrier Management Symposium Video Series @ ASHE

FREE and available to anyone!

Earn 12 contact hours by watching the video series and taking a quiz.

ashe.org/barrier



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