2017

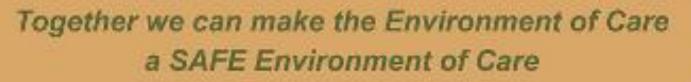
BARRIER MANAGEMENT Symposium

George Mills, Director Department of Engineering The Joint Commission





Barrier Management Symposium



Mission Statement

To provide concise, accurate education <u>at no cost to the attendee</u>, resulting in excellent barrier system management in healthcare buildings

The Joint Commission







BARRIER MANAGEMENT SYMPOSIUM

- Program Developers:
 - Joint Commission
 - Firestop Contractors International Association
 - Underwriters Laboratories
- Participating Organizations:
 - American Society for Healthcare Engineering
 - Gypsum Association
 - □ Fire Damper Industry
 - □ Fire Rated Glazing Industry
 - Door & Hardware Institute



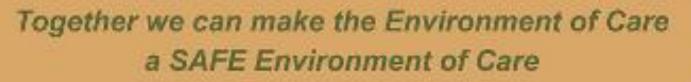
Top 10 Findings Comparison

Standard	2015 % Noncompliance	2016 % Noncompliance	2016 Rank
EC.02.06.01	56%	62%	1
IC.02.02.01	52%	59%	2
EC.02.05.01	53%	58%	3
LS.02.01.20	50%	51%	4
LS.02.01.30	43%	50%	5
RC.01.01.01	49%	47%	6
LS.02.01.10	46%	46%	7
LS.02.01.35	43%	43%	8
PC.02.01.03	29%	40%	9
EC.02.02.01	37%	39%	10





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#4 LS.02.01.20

EP	Assembly Affected	Issue
1	Door	Locking
2	Door	Swing
3	Horizontal exits	Requirements
4	Outside stair	Building protection
5	Horizontal exit: door	Requirements
6	Horizontal exit	Fire jump
8	Exit	Discharge
9	Stair doors	Hold open
10	Doors	New boiler rooms, mechanical rooms, and heater rooms



#7 LS.02.01.10

EP	Assembly Affected	Issue
1	Building type	Construction type
3	Rated walls	Features
4	Rated walls	Openings
5	Rated doors	Features
6	Doors	Protective plates
7	Doors	Coverings
8	Ducts	Penetration
9	Penetrations	Firestopping



#5 LS.02.01.30

EP	Assembly Affected	Issue
1	Vertical openings	Protection
2	Hazardous areas	Walls & doors
3	Gift shop	Protection
6	Corridor partitions	Features
7	Corridor walls, new	Limit transfer of smoke
8	Fire windows in corridor walls	Features
9	Corridor doors	Features
10	Corridor doors	Plates
11	Corridor doors	Features



#9 LS.02.01.30

EP	Assembly Affected	Issue
12	Corridor walls	Openings
16	Smoke barriers	Features
18	Smoke barriers	Features
19	Smoke barriers	Features
20	Smoke barriers	Duct penetrations
21	Smoke barriers	Damper protection
22	Smoke barriers; smoke doors	Window opening rating
23	Smoke barriers doors	Features
24	Exit stair	Rating



LS.02.01.50

EP	Assembly Affected	Issue
8	Linen & waste chute inlet doors	Protection
9	Linen & waste chute inlet & discharge doors	Features
10	Linen & trash chutes discharge door	Features
11	Linen & waste chutes discharge	Separation





ANNUALLY



EC.02.03.05 EP 25

The hospital has written documentation of annual inspection and testing of door assemblies by individuals who can demonstrate knowledge and understanding of the operating components of the door being tested. Testing begins with a pre-test visual inspection; testing includes both sides of the opening.

Note: For additional guidance on testing of door assemblies, see NFPA 101-2012: 7.2.1.5.10.1; 7.2.1.5.11; NFPA 80-2010: 4.8.4; 5.2.1; 5.2.3; 5.2.4; 5.2.6; 5.2.7; 6.3.1.7; NFPA 105-2010: 5.2.1.



- Required for all fire and smoke barrier doors
 - Corridor doors not required if not part of fire or smoke barrier
- Based on NFPA 101-2012, 7.2.1.15 18/19.2.1 references Chapter 7
 - 18/19.2.2.1 references 7.2.1
 - It was determined door inspections were beneficial to patient safety



- Doors to be included in the annual door inspection include:
 - Door leaves equipped with panic hardware or fire exit hardware in accordance with 7.2.1.7
 - Door assemblies in exit enclosures
 - Electrically controlled egress doors
 - Door assemblies with special locking arrangements subject to 7.2.1.6



The Joint Commission does not require the following doors to be included in the annual door inspection:
Corridor doors (i.e., patient room doors)

Office doors (provided the room does not contain flammable or combustible materials)



FIRE DOORS INSTALLED WHERE NOT REQUIRED

NFPA 101-2012, 4.6.12.3 (LS.01.01.01 EP 6)

- Existing fire protection features obvious to the public, if not required by the Code, shall be either maintained or removed.
- Doors shall be maintained per the barrier assembly requirements
- Doors that exceed the barrier assembly requirements shall be maintained as designed
 - For example, if a fire-rated door were installed in a smoke barrier, the fire-rated door would be subject to annual fire door inspections
 - The smoke barrier would be maintained as a smoke barrier



FIRE DOORS INSTALLED WHERE NOT REQUIRED

Fire-rated doors in a nonrated barrier assembly

- Must be maintained as a fire door unless the features which identify it as a fire door have been removed in a manner that maintains the opening protective requirements applicable to the barrier into which it is installed
- For example, if a 90-minute fire-rated door were installed in an existing smoke barrier, the door would need to be annually inspected and tested as a fire door and the smoke barrier maintained as a smoke barrier
 - If the 90 minute fire rated door were modified (i.e. removing the bottom rod and floor receiver) remove all fire door hardware and labeling, and repair as a smoke door (NFPA 105-2010, 5.1.4)

Inspect and test annually as a smoke barrier door
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