WHEA Lunch & Learn Series JAN-2017





Lauzon Life Safety Consulting







Agenda

SIN HEAL

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WHEA Lunch & Learn Series JAN-2017

<u>SUITES</u>

- 1. What are Suites?
- 2. Benefits of Suites
- 3. Revisions from 2000 LSC
- 4. Patient Sleeping Suites
- 5. Patient Care Suites
- 6. Non-Patient Suites
- 7. Activity: Suite Evaluation
- 8. Activity: Suite Designation

ASSOC

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Agenda

WHEA Lunch & Learn Series **JAN-2017**





More than a candy bar

"Very tasty, but can give you an ache"

Understanding Suites starts with this Code:

All rooms <u>MUST</u> have a door directly to the corridor



18.2.5.6.1 Every habitable room shall have an exit access door leading directly to an exit access corridor, unless otherwise provided in 18.2.5.6.2, 18.2.5.6.3, and <u>18.2.5.6.4.</u> suite exception >

The Suites exception



<u>**18.2.5.6.4</u>** Rooms within suites complying with 18.2.5.7 shall <u>not be required</u> to have an exit access door leading directly to an exit access corridor</u>

What is a Suite?

When there's a "room within a room" Intervening Room



It's a SUITE when you see additional doors when inside a room





<u>NO Suites</u> in Business Occupancies



(There is no requirement for rooms to open into a corridor)

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Where in the LSC?



Pages from LLSC CODE TOOL BOX



Pages from LLSC CODE TOOL BOX



SUITES-GENERAL

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This is only a partial list that shows the most frequently cited requirements ... Check the full

Suites generally are a group of rooms and spaces that functions effectively together as a unit

Habitable rms do not include individual bathrooms, closets, briefly occupied work spaces or small storage rms

Inside of suites there are no corridors

There are no min widths or door latching requirements. Doors can slide without breaking away, latching or single motion release

ſ	Item	What to Check	Requirement	
	Separation Wall	1. Smoke Tightness	1. Suites must be separated from the rest of the building and other suites by walls and doors built to at least the same requirements as a corridor (18/19.2.5.7.1.2)	
2	Hazardous Contents NEW in 012 LSC	 Intervening spaces Enclosure Haz Suites Surgical Sterile Storage 	 Intervening rooms must not be hazardous areas (18/19.2.5.7.1.3(A)) Hazardous rooms must be enclosed per 19.3.2.1 (18/19.2.5.7.1.3(B)) Multiple contiguous hazardous spaces within a suite do not be individually enclosed with rated walls, provided the suite is primarily a hazardous area, and the perimeter of the suite is constructed per 19.3.2.1 (18/19.2.5.7.1.3(C)) Existing: Sterile storage areas, with only a single day supply, within a sprinkled operating room suite do not need to be enclosed as a haz space (19.2.5.7.1.3(D)) 	
ľ	Internal Walls	1. Non-rated walls	 Subdivision walls within a suite must be made with noncombustible or limited- combustible materials or with fire-retardant wood that is encapsulated behind drywall or plaster (18/19.2.5.7.1.4) 	
	Hall Widths	1. Min Widths	 There are no specific min suite aisle/hall/passage widths, and the corridor widths do not apply. Thus, apply the general width requirement of existing facilities of 28" (7.3.4.1.2) 	



SUITES-NON-SLEEPING PATIENT CARE 2 of 3

This is only a partial list that shows the most frequently cited requirements ... Check the full

code

	ltem	What to Check	Requirement	
	Exit Access	1. Types	1. New: Must have direct access to a corridor (18.2.5.7.3.2); Existing: Must have access to a corridor or a horizontal exit (19.2.5.7.3.1(A))	
		2. 2 Exit Accesses	2. Patient non-sleeping suites larger than 2,500 sf must have at least 2 remotely located exit access doors (18/19.2.5.7.3.2(A))	
۱ 20	NEW in D12 LSC	3. Alternate Access	 If more than one exit access is required, one is permitted to be directly to an exit stair, exit passageway, or door to the exterior (18/19.2.5.7.3.1(B)) or into another suite that is properly enclosed with "corridor-type" walls & doors (18/19.2.5.7.3.2(C)) 	
	Max Size	1. 10,000 SF	1. Patient non-sleeping suites shall not exceed 10,000 sf (18/19.2.5.7.3.3)	
	Travel Distance	 Within Room to Corridor door Within Room to Exit door 	 The max travel distance from any point within a non-sleeping patient suite to an exit access door shall not exceed 100' (18/19.2.5.7.3.4(A)) The max travel distance from any point within a non-sleeping patient suite to an exit door shall not exceed 200' (18/19.2.5.7.3.4(B)(2)) if the building is fully sprinkled; OR shall not exceed 150' (19.2.5.7.3.4(B)(1)) if the building is not fully sprinkled. 	

SUITES-NON-PATIENT CARE

No size limit of suite; The egress provisions for non-patient care suites shall be in accordance with the primary use and occupancy of the space, See Travel Distance Topic (19.2.5.7.4)



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SUITES-SLEEPING

This is only a partial list that shows the most frequently cited requirements ... Check the full Non-Patient Sleeping Suites shall comply with requirements for a non-patient care suite (19.2.5.7.2(2))

Item	What to Check	Requirement	
Exit Access	 Types 2 Exit Accesses 	 Patient sleeping suites shall have access to a corridor or a horizontal exit (18/19.2.5.7.2.1(A)) Sleeping suites larger than 1000 sf must have at least 2 remotely located exit access 	
NEW in 2012 LSC	3. Alternate Access	 doors (18/19.2.5.7.2.2(A)) 3. If more than one exit access is required, one is permitted to be directly to an exit stair, exit passageway, or door to the exterior (18/19.2.5.7.2.1(B)) or into another suite that is properly enclosed with "corridor-type" walls & doors (18/19.2.5.7.2.2(C)) 	
Staff Supervision NEW in 2012 LSC	 Constant Direct 	 Shall be provided with constant staff supervision within the suite (18/19.2.5.7.2.1(C)) Suite shall be arranged to allow direct viewing of sleeping rooms from a normally attended location (glass walls w/cubical curtains); OR total smoke detection (18/19.2.5.7.2.1(D)) 	
Max Size NEW in 2012 LSC	 5,000 SF 7,500 SF 3. 10,000 SF 	 Sleeping suites shall not exceed 5,000 sf (18/19.2.5.7.2.3(A)) unless otherwise permitted. Sleeping suites shall not exceed 7,500 sf , Unless the smoke compartment is fully sprinkled with Quick-Response heads; OR Unless the smoke compartment is fully sprinkled with Standard-Response heads and total smoke detection (18/19.2.5.7.2.3(B)) Sleeping suites shall not exceed 10,000 sf, Unless (1) the smoke compartment is fully sprinkled with Quick-Response heads; AND (2) the smoke compartment is totally smoke detected; AND (3) the suite is arranged to allow direct viewing of sleeping rooms from a normally attended location (glass walls w/cubical curtains) (18/19.2.5.7.2.3(C)) 	
Travel Distance	 Within Room to Corridor door Within Room to Exit door 	 The max travel distance from any point within a sleeping unit to an exit access door shall not exceed 100' (18/19.2.5.7.2.4(A)) The max travel distance from any point within a sleeping unit to an exit door shall not exceed 200' (18/19.2.5.7.2.4(B)(2)) if the building is fully sprinkled; OR shall not exceed 150' (19.2.5.7.2.4(B)(1)) if the building is not fully sprinkled. 	



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TRAVEL DISTANCE & COMMON PATH of TRAVEL

This is only a partial list that shows the most frequently cited requirements ... Check the full

Occupancy	Max Travel Distance from within room to exit	Max Common Path of Travel ^a
Assembly, Existing (Chap 13)	 Sprinkled: 250' Unsprinkled: 200' 	 Sprinkled: 20'/75' ^b Unsprinkled: 20'/75' ^b
Health Care, Existing (Chap 19)	 Sprinkled: 200' Unsprinkled: 150' 	 Sprinkled: NR Unsprinkled: NR
Ambulatory, Existing (Chap 21)	 Sprinkled: 200' Unsprinkled: 150' 	 Sprinkled: 100' Unsprinkled: 75'
Lodging, Existing (Chap 26)	 Sprinkled: NR Unsprinkled: NR 	 Sprinkled: NR Unsprinkled: NR
Business, Existing (Chap 38)	 Sprinkled: 300' Unsprinkled: 200' 	 Sprinkled: 100' Unsprinkled: 75'
Industrial, Existing, General Industrial (Chap 40)	 Sprinkled: 250' Unsprinkled: 200' 	 Sprinkled: 100' Unsprinkled: 50'
Storage, Existing Ordinary Haz Storage (Chap 42)	 Sprinkled: 400' Unsprinkled: 200' 	 Sprinkled: 100' Unsprinkled: 50'

^a <u>Common Path of Travel</u> = portion of exit access prior to two separate & distinct paths of travel to two exits are available

^b <u>1st</u> number = CP if serving >50 persons; <u>2nd</u> number = CP if serving \leq 50 persons

^c Provided there is no fuel-fired equip & egress path is readily known





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What are the benefits of Suites?

2

Primary Benefits







1. NO CORRIDORS within suites



Corridor: 8' Width requirement



Suites:



7.3.4.1 Not less than 36"

7.3.4.1.2 In existing buildings not less than 28''

1. NO CORRIDORS within suites

Corridor: Door Positive Latching

Suites:

NO Door Latching requirement



1. NO CORRIDORS within suites

Corridor: Hinged Door Swing

Suites:

NO Door Swing requirement



1. NO CORRIDORS within suites

Suites: **Corridor**: Door must close with No Door Closing tug or push requirement **SUBIEIEB**

Wedges are "legal" within a suite (unless at a rated door)



2. EXTENDED TRAVEL DISTANCE:

Non-Suite Rooms:

2000 LSC: Max 50' travel to reach the corridor door

18.2.6.2.3 The travel distance between any point in a health care sleeping room and an exit access door in that room shall not exceed 50 ft



2. EXTENDED TRAVEL DISTANCE:

<u>Suites</u>: 2000 & 2012 LSC:

Max 100' travel to reach the corridor door

18.2.5.7.2.4 Sleeping Suite Travel Distance.

Travel distance between any point in a sleeping suite and an exit access door from that suite shall not exceed 100 ft



Digression

How to Measure:



Digression

How to Measure:

7.6.1 The travel distance to an exit shall be measured on the floor or other walking surface as follows:

(1) Along the centerline of the <u>natural path of travel</u>, starting from the most remote point subject to occupancy



Digression

How to Measure:

(2) Curve around any corners or obstructions, with a **<u>12</u>**" **clearance**



How to Measure:

(3) Terminate at one of the following:
(a) <u>Center</u> of the doorway
(b) Other point at which the exit begins

Digression



2. EXTENDED TRAVEL DISTANCE:

Patient Suites: 2000 & 2012 LSC:

Max 100' travel to reach the exit access door

Non-Patient Suites

Do not follow health care egress rules

- 250'-400' Permitted DON'T Follow the 100' Health Care Exit Access Travel Distance
- DON'T Follow the 200[°] Exit Travel Distance

3. HAZARDOUS SPACES

18.2.5.7.1.3 Suite Hazardous Contents Areas.

(A)* <u>Intervening rooms</u> shall not be hazardous areas as defined by 18.3.2.



3. HAZARDOUS SPACES

18.2.5.7.1.3 Suite Hazardous Contents Areas.

(B) Hazardous areas within a suite shall be <u>separated</u> from the remainder of the suite in accordance with 18.3.2.1, unless otherwise provided in 18.2.5.7.1.3(C).



Must **Enclose** with rated walls
Benefits

3. HAZARDOUS SPACES

18.2.5.7.1.3 Suite Hazardous Contents Areas.

(C) Hazardous areas within a suite shall not be required to be separated from the remainder of the suite if

(1) Suite is <u>primarily</u> a hazardous area.

(2) Suite has approved automatic smoke detection

(3) Suite enclosed as a hazardous area



3. HAZARDOUS SPACES

19.2.5.7.1.3(D) – Existing Surgical Suites Central Sterile Core NOT Hazardous, under certain conditions





4. <u>NON-PATIENT</u> SUITE FREEDOMS

NO maximum size





3 What are the revisions in suites from the 2000 LSC to 2012? 2012 Edition Life Safety Code® 2000 Edition National Fire Protection Association

Benefits



Suites have become "Sweeter"



anations

f locations

What are the revisions in suites from the 2000 LSC to 2012?

- 1. More Co
- 2. More Ty
- 3. Defined all references
- 4. Enhance
- 5. Larger suite :
- 6. No Limit on ervening Rooms

- 7. No 50' tray distance
- 8. Hazardous Mes changed
- 9. Added Smoke Detection

Changes from 2000 LSC

1. Expanded $\frac{1}{4}$ page $\rightarrow 1 \frac{1}{4}$ PAGES

2000 LSC

18.2.5.2 Any patient sleeping room, or any suite that includes patient sleeping rooms, of more than 1000 ft² (93 m²) shall have not less than two exit access doors remotely located from each other.

18.2.5.3 Any room or any suite of rooms, other than patient sleeping rooms, of more than $2500 \text{ ft}^2 (230 \text{ m}^2)$ shall have not less than two exit access doors remotely located from each other.

18.2.5.4 Any suite of rooms that complies with the requirements of 18.2.5 shall be permitted to be subdivided with nonfire-rated, noncombustible, or limited-combusible partitions.

18.2.5.5 Intervening rooms shall not be hazardous are as defined by 18.3.9

18.2.5.6 Suites of sleeping rooms shall not exceed 5000 ${\rm ft}^2$ (460 ${\rm m}^2).$

18.2.5.7 Suites of rooms, other than patient sleeping rooms, shall not exceed 10,000 ft² (930 m²).

18.2.5.8 Suites of rooms, other than patient sleeping rooms, shall be permitted to have one intervening room if the travel distance within the suite to the exit access door does not exceed 100 ft (30 m) and shall be permitted to have two intervening rooms where the travel distance within the suite to the exit access door does not exceed 50 ft (15 m).

18.2.5.7 Suites.

18.2.5

18.2. 1.1 Suite Permission. Suites complying with 18.2.5.7 shall permitted to be used to meet the corridor access requirements of 18.2.5.6.

18.2. 1.2* Suite Separation. Suites shall be separated from the reasinder of the building, and from other suites, by walls and non-meeting the requirements of 18.3.6.2 through 18.3.6.5.

18.2. 1.3 Suite Hazardous Contents Areas

(A)* Intervening rooms shall not be hazardous areas as defined 18.3.2.

(B) searchous areas within a suite shall be separated from the remainder of the suite in accordance with 18.3.2.1, unless othermise provided in 18.2.5.7.1.3(C).

(C)* acardous areas within a suite shall not be required to be separated from the remainder of the suite where complying with all of the following:

(1) Te suite is primarily a bazardous area.
 (2) Two suite is protected by an approved automatic smoke detection system in accordance with Section 9.6.

(3) T e suite is separated from the rest of the health care f dity as required for a hazardous area by 18.3.2.1.

18.2.57.1.4 Suite Subdivision. The subdivision of suites shall be between of renormhustible or limited combantible mati-

tions partitions constructed with fire-retardant-treated wood

nclosed with noncombustible or limited combustible materials,

and such partitions shall not be required to be fire rated.

2012 Edition 🔛

B

2012 Edition

5x

101-190 LEFKS 107.7.2 Skeping Suites. Skeping suites shall be in accewith the following:

 Seeping suites for patient care shall comply with the proisions of 18.2.5.7.2.1 through 18.2.5.7.2.4.
 Reeping suites not for patient care shall comply with the proving out 18.2.5.7.4.

5.7.2.1 Sleeping Suite Arrangement.

tempants of habitable rooms within sleeping suites shall ait access to a corridor complying with 18.3.6, or to a ntal exit, directly from the suite.

There two or more exit access doors are required from ite by 182,5.5.1, one of the exit access doors shall be ted to be directly to an exit stair, exit passageway, or exit 5 the exterior.

leeping suites shall be provided with constant staff suon within the suite.

leeping suites shall be arranged in accordance with one following:

tient sleeping rooms within sleeping suites shall prole one of the following:

) The patient alsoping rooms shall be arranged to allow for direct supervision from a normally attended location within the suite, such as is provided by glass walls, and cubicle curtains shall be permitted.

) Any patient sleeping rooms without the direct supervision required by 18.2,5.7,2.1 (D) (1) (a) shall be provided with smoke detection in accordance with Section 9.6 and 18.3,4.

ceping suites shall be provided with a total coverage omplete) automatic smoke detection system in accornce with 9.6.2.9 and 18.3.4.

7.2.2 Sleeping Suite Number of Means of Egress.

ocping suites of more than 1000 ft² (93 m²) shall have a than two exit access doors remotely located from each

ne means of egress from the suite shall be directly to a or complying with 18.3.6.

or nites requiring two means of ogress, one means of rom the nuite shall be permitted to be into another nuite, d that the separation between the nuites complice with ridor requirements of 18.3.6.2 through 18.3.6.3.

18.2.5.7.2.3 Sleeping Suite Maximum Size.

scoreroa. Sleeping suites shall not exceed 7500 ft² (700 m²), unless rwise provided in 18.2.5.7.2.3 (C).

C Sleeping suites greater than 7500 ft² (700 m²) and not neweding 10,000 ft² (930 m²) shall be permitted where both of the following are provided in the suite:

Direct visual supervision in accordance with 18.2.5.7.2.1(D)(1)(a)

Total coverage (complete) automatic arnoke detection in accordance with 9.6.2.9 and 18.3.4

18 3.7.2.4 Sleeping Suite Travel Distance.

(A) Travel distance between any point in a sleeping suite and an excass door from that suite shall not exceed 100 ft (30 m).

(B) Travel distance between any point in a sleeping suite an exit shall not exceed 200 ft (61 m).

JPE SAFETY CODE

18.2.5.7.3 Patient Care Non-Sleeping Suites. Non-sleep suites shall be in accordance with the following:

 Non-eleeping suites for patient care shall comply with the provisions of 18.2, 5.7.3.1 through 18.2, 5.7.3.4.
 Non-eleeping suites not for patient care shall comply the provisions of 18.2, 5.7.4.

18.2.5.7.3.1 Patient Care Non-Sleeping Suite Arrangemen

(A) Occupants of habitable rooms within non-sleeping su shall have exit access to a corridor complying with 18.5.6, or a horizontal exit, directly from the suite.

(B) Where two or more exit access doors are required for the suite by 18.2.5.5.2, one of the exit access doors shall be permitted to be directly to an exit stair, exit passageway, or exidoor to the exterior.

18.2.5.7.3.2 Patient Care Non-Sleeping Suite Number of Me of Egross.

(A) Non-sloeping mites of more than 2500 ft² (230 m²) at have not less than two exit access doors remotely located from each other.

(B)* One means of egress from the suite shall be directly corridor complying with 18.3.6.

(C)* For suites requiring two means of egrees, one means egrees from the suite shall be permitted to be into another a provided that the separation between the suites complices the corridor requirements of 18.3.6.2 through 18.3.6.5.

18.2.5.7.3.3 Patient Care Non-Sleeping Suite Maximum S Non-sleeping auites shall not exceed 10,000 B² (930 m²).

18.2.5.7.3.4 Patient Care Non-Sleeping Suite Travel Distance

(A) Travel distance within a non-sleeping suite to an exit cost door from the suite shall not exceed 100 ft (30 m).

(B) Travel distance between any point in a non-sleeping and an exit shall not exceed 200 ft (61 m).

182.5.7.4 Non-Patient-Care Suites. The egrees provision non-patient-care suites shall be in accordance with the mary use and occupancy of the space. 43







3. Corridor Wall/Doors Requirements

18.2.5.7.1.2 Suite Separation. Suites shall be <u>separated</u> from the remainder of the building, and from other suites, by walls and doors meeting corridor wall/door the requirements



Interior Walls

18.2.5.7.1.4 Suite Subdivision. The subdivision of suites by:

- <u>Noncombustible partitions or</u>
- Limited-combustible partitions or
- partitions constructed with <u>Fire-retardant-treated</u> wood enclosed with noncombustible or limited-combustible materials
- and such partitions shall not be required to be fire rated.



(= Concrete & Steel)

(= Drywall)

Interior Walls

Noncombustible Materials (4.6.13)

Digression

- "will <u>not ignite</u>, <u>burn</u>, <u>support combustion</u> or release flammable vapors when subjected to fire or heat"
- "passes ASTM E136 standard test"

Limited-combustible Materials (4.6.14)

- Has Potential Heat Valve ≤ 3500 Btu/lb, per ANSI/UL 723
- Has noncombustible base + max 1/8" thick surface with flame spread ≤ 50, per ASTM E84
- Has flame spread ≤ 25 or continued progressive combustion, per ASTM E84

<u>Material</u>	Potential Heat (Btu/lb)		
Douglas Fir:	8,400	Combustible	
Fire Treated Doualas Fir:	7,050		
Fiber Glass Insulation:	3,040 760	Limited	
	, 66	Compustible	



Interior Walls

Fire-retardant-treated wood enclosed with limited-combustible materials

Digression

(= FRT covered with Drywall)

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4. Second Exit Flexibility





5. Size of Suites expanded







2000 LSC: max 2



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8. Hazardous Suites

18.2.5.7.1.3 Suite Hazardous Contents Areas.(C) Hazardous areas within a suite shall not be required to be separated from the remainder of the suite if

- (1) Suite is primarily a hazardous area.
- (2) Suite has approved automatic smoke detection
- (3) Suite enclosed as a hazardous area



8. Hazardous Suites

19.2.5.7.1.3(D) - Existing Surgical Suites Central Sterile Core NOT Hazardous, if

- Existing (prior to July 5, 2016)
- Sprinkled
- One-Day Supply



9. More Smoke Detection



9. More Smoke Detection



Suite Details

WHEA Lunch & Learn Series **JAN-2017**

2012 LSC -	SUITE REQU	IREMENTS
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TOPIC	T PATIENT SLEEPING - 'PS '	(IN)PATIENT CARE - 'PC'	NON-PATIENT - 'NP'	
1. <u>Corridor Exit Access</u> (Arrangement)	Minimum of one door to a corridor or horizontal exit [18/19.2.5.7.2.1(A); 18/19.2.5.7.2.2(B)]	Minimum of one door to a corridor or horizontal exit [18/19.2.5.7.3.1]	Minimum of One [18/19.2.5.6.1]	
2. <u>Two Remote Exit Access</u> Doors (Arrangement)	Min 2 if > 1,000 sf; 2nd can be to corridor, stair, exit passage, exterior, or suite [18/19.2.5.7.2.2(A); 18/19.2.5.7.2.1(B); 18/19.2.5.7.2.2.(C)]	Min 2 if > 2,500 sf; 2nd can be to corridor, stair, exterior, or suite [18/19.2.5.7.3.2(A); 18/19.2.5.7.3.1(B); 18/19.2.5.7.3.2(C)]	Min 2 if > 2,500 sf; 2nd can be to corridor, stair, exterior, or suite [18/19.2.5.5.2]	
3. <u>Supervision</u> (Arrangement)	Constant Staff Supervision within the Suite [18/19.2.5.7.2.1(C)]	No Requirement	No Requirement	
4. Direct View or Detection (Arrangement)	Must have one of following: 1. Sleep Rms have direct staff supervision from a normally attended location in suite (i.e. glass walls or curtains) 2. Sleep Rms without #1 must have smoke detection 3. All Occupiable Rms have smoke detection [18/19.2.5.7.2.1(D)]	No Requirement	No Requirement	
5. <u>Basic Size</u>	Can not exceed 7,500 SF; [18/19.2.5.7.2.3(B)]	Can not exceed 10,00 SF [18/19.2.5.7.3.3]	No Requirement	
6. <u>Alternate Size</u>	Permitted to be up to 10,000 SF, if have direct viewing per #5.1, AND full smoke detection; [18/19.2.5.7.2.3(C)]	Not Permitted	No Requirement	
7. Exit Access Travel Distance	Maximum 100' travel distance to an exit access door [18/19.2.5.7.2.4(A)]	Maximum 100' travel distance to an exit access door [18/19.2.5.7.3.4(A)]	Must follow Common Path of Travel egress limit of the primary use & occupancy of the space [18/19.2.5.7.4]	
8. <u>Exit Travel Distance</u>	Maximum 200' travel distance to an exit [18/19.2.5.7.2.4(B)]; Max 150' if building is not fully sprinkled [19.2.5.7.2.4(B)(1)]	Maximum 200' travel distance to an exit [18/19.2.5.7.3.4(B)]; Max 150' if building is not fully sprinkled [19.2.5.7.3.4(B)(1)]	Must follow Exit Travel limit of the primary use & occupancy of the space [18/19.2.5.7.4]	
9. Perimeter Wall & Door	Same as a Corridor (Resist Passage of Smoke; Non-Rated; Doors Positive Latching); [18/19.2.5.7.1.2]			
10. Interior Wall	Non-rated partitions made with noncombustible or limited combustible materials or fire-retardant-treated wood that is covered with noncombustible or limited combustible materials [18/19.2.5.7.1.4]			
11. Intervening Hazards	Can egress from non-hazardous through an intervening hazardous space [18/195.7.1.3(A)]			
12. Separation of Hazards	Haz areas must be enclosed with 1-hr rated walls & 45 min self-closing doors [18/19.2.5.7.1.3(B)]			
13. <u>Hazardous Suites</u>	Do not need to rate interior walls within a suite if entire suite is enclosed with 1-hr rated walls, suite is primarily hazardous, and all rooms are smoke detected [18/19.2.5.7.1.3(C)]			

2012 LSC - SUITE REQUIREMENTS

			•
TOPIC	T PATIENT SLEEPING - 'PS '	(IN)PATIENT CARE - 'PC'	NON-PATIENT - 'NP'
1. <u>Corridor Exit Access</u> (Arrangement)	Minimum of one door to a corridor or horizontal exit [18/19.2.5.7.2.1(A); 18/19.2.5.7.2.2(B)]	Minimum of one door to a corridor or horizontal exit [18/19.2.5.7.3.1]	Minimum of One [18/19.2.5.6.1]
2. Two Remote Exit Access	Min 2 if > 1,000 sf; 2nd can be to corridor, stair, exit	Min 2 if > 2,500 sf; 2nd can be to	Min 2 if > 2,500 sf; 2nd can be to corridor,
Doors (Arrangement)	passage, exterior, or suite	corridor, stair, exterior, or suite	stair, exterior, or suite
	[18/19.2.5.7.2.2(A); 18/19.2.5.7.2.1(B); 18/19.2.5.7.2.2.(C)]	[18/19.2.5.7.3.2(A); 18/19.2.5.7.3.1(B); 18/19.2.5.7.3.2(C)]	[18/19.2.5.5.2]
3. <u>Supervision</u> (Arrangement)	Constant Staff Supervision within the Suite [18/19.2.5.7.2.1(C)]	No Requirement	No Requirement
4. Direct View or Detection	Must have one of following:	No Requirement	No Requirement
(Arrangement)	1. Sleep Rms have direct staff supervision from a		
	normally attended location in suite (i.e. glass walls or		
	curtains)		
	 Sleep Rms without #1 must have smoke detection All Occupiable Pms have smoke detection 		
	[18/19 2 5 7 2 1/D]]		
	[20] 25.2.5.7.2.2[0]]		
5. <u>Basic Size</u>	Can not exceed 7,500 SF; [18/19.2.5.7.2.3(B)]	Can not exceed 10,00 SF	No Requirement
6 Alternate Size	Permitted to be up to 10 000 SE if have direct viewing	Not Permitted	No Requirement
or <u>memate size</u>	per #5.1, AND full smoke detection; [18/19.2.5.7.2.3(C)]		
7. Exit Access Travel Distance	Maximum 100' travel distance to an exit access door	Maximum 100' travel distance to an exit	Must follow Common Path of Travel
	[18/19.2.5.7.2.4(A)]	access door [18/19.2.5.7.3.4(A)]	egress limit of the primary use &
			occupancy of the space [18/19.2.5.7.4]
8. Exit Travel Distance	Maximum 200' travel distance to an exit	Maximum 200' travel distance to an exit	Must follow Exit Travel limit of the
	[18/19.2.5.7.2.4(B)]; Max 150' if building is not fully	[18/19.2.5.7.3.4(B)]; Max 150' if building	primary use & occupancy of the space
	sprinkled [19.2.5.7.2.4(B)(1)]	is not fully sprinkled [19.2.5.7.3.4(B)(1)]	[18/19.2.5.7.4]
9. Perimeter Wall & Door	Same as a Corridor (Resist Passage	of Smoke; Non-Rated; Doors Positive Latch	ing); [18/19.2.5.7.1.2]
10. Interior Wall	Non-rated partitions made with noncombustible or limit	ed combustible materials or fire-retardant-	treated wood that is covered with
	noncombustible or limited combustible materials [18/19.2.5.7.1.4]		
11. Intervening Hazards	Can egress from non-hazardous through an intervening hazardous space [18/195.7.1.3(A)]		
12. Separation of Hazards	Haz areas must be enclosed with 1-hr rated walls & 45 min self-closing doors [18/19.2.5.7.1.3(B)]		
13. <u>Hazardous Suites</u>	Do not need to rate interior walls within a suite if entire suite is enclosed with 1-hr rated walls, suite is primarily hazardous, and all rooms are		
	smoke detected [18/19.2.5.7.1.3(C)]		

Requirements of Patient Sleeping Suites

'PS'

4

(Most restrictive)

Requirements of Patient Sleeping Suites

- 1. Arrangement
- 2. Size
- 3. Travel Distance

1. Sleeping Suite Arrangement

18/19.2.5.7.2.1

- A. Corridor Exit Access
- **B. Multiple Exits**
- C. Supervision
- D. Direct View or Detection

1. Sleeping Suite Arrangement

Sleeping Suite

A. Direct <u>Corridor</u> Access Required

Must have a door to <u>corridor</u> or horizontal exit

1. Sleeping Suite Arrangement

Sleeping Suite

B. Two Exit Access' Required

18/19.2.5.7.2.2 – Sleeping Rooms <u>>1,000 SF</u> must have at least 2 **remote** exit access doors

1. Sleeping Suit Arrangement

Sleeping Suite

Digress B. Two Exit Access' Required

18/19.2.5.7.2.2 – Sleeping Rooms >1,000 SF must have at least 2 <u>remote</u> exit access doors

1. Sleeping Suit Arrangement

Sleeping Suite

Digressi B. Two Exit Access' Required

18/19.2.5.7.2 – Sleeping Room >1,000 SF have 2 <u>ren</u> acce

B. Two Exit Access' Required

18/19.2.5.7.2.1 (B); 18/19.2.5.7.2.2(C)

B. Two Exit Access' Required

18/19.2.5.7.2.1 (B); 18/19.2.5.7.2.2(C)

Sleeping Suite

C. Supervision

18/19.2.5.7.2.1(C)

Must have constant staff supervision

"Staff always need to be in suite!"

RETROACTIVE !!!

One of the few situations where Chapter 19 is tougher than prior Chapter 18 requirements
1. Sleeping Suite Arrangement

Sleeping Suite

D. Direct View

18/19.2.5.7.2.1(D)

- Must have <u>one</u> of the following:
 - 1. <u>Direct</u> supervision from normally attended location (ie. Glass walls & doors), or



D. Direct View or Detection

2. Patient Room Smoke Detection if not observable from a central nurse station





1. Sleeping Suit Arrangement

Sleeping Suite

Digression Direct View or Detection

Recommend Checking All your <u>Patient Sleeping</u> Suites



1. Sleeping Suit Arrangement

Sleeping Suite

Digressi Direct View or Detection

NOT Easy to Fix

- Reconstruct to view all beds from a central location with glass walls or curtains
- Install Smoke Detectors in all Non-Viewable Sleep Rms
- Wait for NFPA/CMS Clarification
- Wait for DHS to cite

2. Sleeping Suite Size

Sleeping Suite

2. Sleeping Suite Size

18/19.2.5.7.2.3







Don't Expect to

see too many

10,000 SF 'PS'

New & Existing Sleeping Suite Size

18/19.2.5.7.2.3(C)

3 CONDITIONS to increase to 10,000 FS Max

1. Fully sprinkled w/Quick Response Heads, and

- 2. Full Smoke Detection, and
- 3. Direct Visual Supervision

Detectors in EVERY

space: NFPA 72, 17.5.3: includes all spaces, shafts, closets, attics, above ceiling, etc...

All rooms viewable (glass walls/doors or curtains)

2012 LSC:

wording

worung

3. Travel Distance

18/19.2.5.7.2.4

2 Situations to Keep in Mind

- Travel Distance Within Suite to the Corridor
 Exit Access
- Travel Distance Within/out of Suite to the Exit







Requirements of <u>Patient Care</u> Suites



5



Requirements of Patient Care Suites (non-sleeping)

- 1. Arrangement
- 2. Size
- 3. Travel Distance



1. Care Suite Arrangement

18/19.2.5.7.2.1

A. Corridor Exit Access
B. Multiple Exits
C. Supervision
D. Direct View or Detection

1. Care Suite Arrangement

Care Suite

A. Direct Corridor Access Required

18/19.2.5.6.1

Must have a door to corridor or horizontal exit



B. Two Exit Access' Required

18/19.2.5.7.3.2 Care Rooms <u>> 2,500 SF</u> must have at least 2 <u>remote</u> exit access doors



2nd Exit Access CHECKPOINTS:

- Applies to Care Suites > 2,500 SF
- 1st Exit Access must be to Corridor
- 2nd Exit Access may be Corridor, Another Suite, Stair, Outside



CAUTION: If exiting into another suite

- Can never be locked
- Can not be hazardious



18/19.2.5.7.3.3



3. Travel Distance

18/19.2.5.7.3.4

2 Situations to Keep in Mind

Travel Distance Within Suite <u>to the Corridor</u>
 Exit Access

• Travel Distance Within/out of Suite to the Exit

2000 LSC:

wording

3. Travel Distance

18/19.2.5.7.3.4

2 Situations to Keep in Mind

2012 LSC: wording

• Travel Distance Within Suite to the Exit Access

• Travel Distance Within/out of Suite to the Exit







Non-Patient Suites

Requirements of <u>Non-(In)Patient</u> Suites

NON-(In)Patient Sleeping

6





Non-Patient Suites

Requirements of <u>Non-(In)Patient</u> Suites

18/19.2.5.7.4





Follow the primary use & <u>occupancy</u> of the space

Requirements of Non-(In)Patient Suites





- 1. Arrangement
- 2. Size
- 3. Travel Distance

100

1. Non-(In)Patient Suite Arrangement

A. Corridor Exit Access
B. Multiple Exits
C. Supervision
D. Direct View or Detection

1. Non-Pt Care Suite Arrangement

Non-Patient Suites

A. Direct Corridor Access Required

18/19.2.5.6.1

Every habitable room must have a door to corridor or horizontal exit



1. Non-Pt Care Suite Arrangement

Non-Patient Suites

B. Two Exit Access' Required

18/19.2.5.7.3.2 – Habitable Rooms <u>> 2,500 SF</u> must have at least 2 <u>remote</u> exit access doors







18/19.2.5.7.3.3



2012 LSC

No Limit

104

2. Non-(In)Patient Suite Size

18/19.2.5.7.3.3

CAUTION: IBC 508.2.1 has a 10% limit on amount of "Accessory" occupancies on any story

105

3. Non-(In)Patient Travel Distance

18/19.2.6.2

Follow the primary use & occupancy of the space

1 Situation to Keep in Mind

- Travel Distance Within Suite to the Exit Access
- Travel Distance to the Exit



3. Travel Distance 18/19.2.6.2

Follow the primary use <u>& occupancy of the space</u>



Occupancy	Max Travel Distance from within room to exit	Max Common Path of Travel ^a
Assembly, Existing (Chap 13)	 Sprinkled: 250' Unsprinkled: 200' 	 Sprinkled: 20'/75' ^b Unsprinkled: 20'/75' ^b
Health Care, Existing (Chap 19)	1. Sprinkled	 Sprinkled: NR Unsprinkled: NR
Ambulatory, Existing (Chap 21)	BUSINO 200'	 Sprinkled: 100' Unsprinkled: 75'
Lodging, Existin (Chap 26)	1. Sprinkled: NR 2. Unsprinkled: NR	 Sprinkled: NR Unsprinkled: NR
Business, Existing (Chap 38)	 Sprinkled: 300' Unsprinkled: 200' 	 Sprinkled: 100' Unsprinkled: 75'
Industrial, Existing, General Industrial (Chap 40)	 Sprinkled: 250' Unsprinkled: 200' 	 Sprinkled: 100' Unsprinkled: 50'
Storage, Existing Ordinary Haz Storage (Chap 42)	 Sprinkled: 400' Unsprinkled: 200' 	 Sprinkled: 100' Unsprinkled: 50'

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Activity: Evaluation of a Suite

Step-by-Step process To evaluate several actual suites

Activity-Evaluation

111

Evaluation Steps

1. Determine Type of Suite

2. Arrangement

- Corridor Exit Access
- Multiple Exit Access' (Number, Remoteness)
- Supervision (Pt Sleeping only)
- Direct View or Detection (Pt Sleeping only)
- 3. Size (Pt Use only)
- 4. Travel Distance
 - Travel Distance to the Exit Access (Pt Use only)
 - Travel Distance to the Exit

Suite 2670 – Behavioral Health Outpatient Clinic



Existing

Size: 4,190 SF

Travel Distance: 73'

Fully Sprinkled

- 1. Type of Suite?
- 2. Arrangement
 - Corridor Exit Access
 - Multiple Exit Access' (number, remoteness)
 - Supervision (Pt Sleeping only)
 - Direct View or Detection (Pt Sleeping only)
- 3. Size (Pt Use only)
- 4. Travel Distance
 - Travel Distance to the Exit Access (Pt Use only)
 - Travel Distance to the Exit

Activity-Evaluation

Suite 2670 – Behavioral Health Inpatient Clinic



1. Type of Suite?

If Business Use: If Health Care Use: "Non-(In)Patient Care" "Non-Sleeping Patient Care"

Activity-Evaluation





Activity-Evaluation

Suite 2670 – Behavioral Health Inpatient Clinic



1. Arrangement

Corridor Exit Access

Make sure there are no Dead-End Corridors beyond the 30' Limit (18/19.2.5.2; 20' per IBC if new)

Check the "Yellow" corridors for "fingers" (indicate dead-ends)

Activity-Evaluation



Activity-Evaluation

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- 1. Arrangement
 - Multiple Exit Access' (remoteness)

Activity-Evaluation





Activity-Evaluation

Suite 2670 – Behavioral Health Inpatient Clinic



4. Travel Distance

Travel Distance to the Exit Access (Pt Use only)

Travel Distance: 73' Fully Sprinkled



Activity-Evaluation

120

Suite 2670 – Behavioral Health Inpatient Clinic



4. Travel DistanceTravel Distance to the Exit

Travel Distance: 183'

Fully Sprinkled



Activity-Evaluation



Activity-Evaluation





2654

al Activity-Evaluation

Type of Suite?

Arrangement

2.

- Corridor Exit Access
- Multiple Exit Access' (number, remoteness)
- Supervision (Pt Sleeping only)
- Direct View or Detection (Pt Sleeping only)
- 3. Size (Pt Use only)

4. Travel Distance

6262627262826292

- Travel Distance to the Exit Access (Pt Use only)
- Travel Distance to the Exit

Existing Size: 4,881 SF

Travel Distance: 69'

Fully Sprinkled

2622

2623



Activity-Evaluation

Me No 126



La ra rren rre

Activity-Evaluation



Arrangement 1.

Corridor Exit Access

Make sure there are no Dead-End Corridors beyond the 30' Limit (18/19.2.5.2; 20' per IBC if new)

Check the "Yellow" corridors for "fingers" (indicate dead-ends)

> <u>Can not</u> egress <u>FROM</u> a corridor into a suite





2622 2654 2623 2625

Activity-Evaluation

1. Arrangement

• Multiple Exit Access' (number)

Size: 4,881 SF

>1,000 SF→ Need 2

2nd Egress CHECKPOINTS:

- Applies to Sleeping Suites > 1,000 SF
- 1st Exit must be to Corridor
- 2nd Exit may be Corridor, **<u>Another Suite</u>**, Stair, Outside









Activity-Evaluation













Activity-Evaluation

Activity-Evaluation



TD < 100 Ft





Activity-Evaluation







Activity-Evaluation



8 Activity: Designation of a of a Suite on a Life Safety Plan

Required by Joint Commission, CMS, Wis DQA
Activity: Designation of a of a Suite on a Life Safety Plan

AHJ's are flexible on the method

But must show compliance

<u>Size</u> is the most looked at requirement ...

... but TD & Exit Paths are just as important













Kitchen Suite

Activity-Designation













3. Travel Distance 18/19.2.6.2

Follow the primary use & occupancy of the space



Occupancy	Max Travel Distance from within room to exit	Max Common Path of Travel ^a
Assembly, Existing (Chap 13)	 Sprinkled: 250' Unsprinkled: 200' 	 Sprinkled: 20'/75' ^b Unsprinkled: 20'/75' ^b
Health Care, Existing (Chap 19)	 Sprinkled: 200' Unsprinkled: 150' 	 Sprinkled: NR Unsprinkled: NR
Ambulatory, Existing (Chap 21)	 Sprinkled: 200' Unsprinkled: 150' 	 Sprinkled: 100' Unsprinkled: 75'
Lodging, Existing (Chap 26)	 Sprinkled: NR Unsprinkled: NR 	1. Sprinkled: NR 2Unsprinkled: NR
Business, Existing (Chap 38)	 Sprinkled: 300' Unsprinkled: 200' 	 Sprinkled: 100' Unsprinkled: 75'
Industrial, Existing, General Industrial (Chap 40)	 Sprinkled: 250' Unsprinkled: 200' 	1. Sprinkled. 100' 2. Unsprinkled: 50'
Storage, Existing Ordinary Haz Storage (Chap 42)	 Sprinkled: 400' Unsprinkled: 200' 	 Sprinkled: 100' Unsprinkled: 50'







WHEA Lunch & Learn Series JAN-2017

<u>SUITES</u>

- 1. What are Suites?
- 2. Benefits of Suites
- 3. Revisions from 2000 LSC
- 4. Patient Sleeping Suites
- 5. Patient Care Suites
- 6. Non-Patient Suites
- 7. Activity: Suite Evaluation
- 8. Activity: Suite Designation

Agenda

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Lauzon Life Safety Consulting

