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FED - K0000 - INITIAL COMMENTS

Title INITIAL COMMENTS

Type Memo Tag

CFR

Regulation Definition

Interpretive Guideline

FED - K0100 - General Requirements - Other

Title General Requirements - Other

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

General Requirements - Other

List in the REMARKS section any LSC Section 18.1 and 19.1 General Requirements that are not addressed by the provided K-tags, but are deficient. This information, along with the applicable Life Safety Code or NFPA standard citation, should be included on Form CMS-2567.

FED - K0111 - Building Rehabilitation

Title Building Rehabilitation

Type Standard

CFR NFPA 101

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Regulation Definition

Interpretive Guideline

Building Rehabilitation

Repair, Renovation, Modification, or Reconstruction

Any building undergoing repair, renovation, modification, or reconstruction complies with both of the following:

*Requirements of Chapter 18 and 19.

*Requirements of the applicable Sections 43.3, 43.4, 43.5, and 43.6.

18.1.1.4.3, 19.1.1.4.3, 43.1.2.1

Change of Use or Change of Occupancy

Any building undergoing change of use or change of occupancy classification complies with the requirements of Section 43.7, unless permitted by 18.1.1.4.2 or 19.1.1.4.2

18.1.1.4.2 (4.6.7 and 4.6.11), 19.1.1.4.2 (4.6.7 and 4.6.11), 43.1.2.2 (43.7)

Additions

Any building undergoing an addition shall comply with the requirements of Section 43.8. If the building has a common wall with a nonconforming building, the common wall is a fire barrier having at least a two hour fire resistance rating constructed of materials as required for the addition.

Communicating openings occur only in corridors and are protected by approved self-closing fire doors with at least a 1-1/2 hour fire resistance rating. Additions comply with the requirements of Section 43.8.

18.1.1.4.1 (4.6.7 and 4.6.11), 18.1.1.4.1.1 (8.3), 18.1.1.4.1.2, 18.1.1.4.1.3, 19.1.1.4.1 (4.6.7 and 4.6.11), 19.1.1.4.1.1 (8.3), 19.1.1.4.1.2, 19.1.1.4.1.3, 43.1.2.3(43.8)

FED - K0112 - Sprinkler Requirements for Major Rehabilitati

Title Sprinkler Requirements for Major Rehabilitati

Type Standard

CFR NFPA 101

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Regulation Definition

Sprinkler Requirements for Major Rehabilitation

If a nonsprinklered smoke compartment has undergone major rehabilitation, the automatic sprinkler requirements of 18.3.5 have been applied to the smoke compartment.

In cases where the building is not protected throughout by a sprinkler system, the requirements of 18.4.3.2, 18.4.3.3, and 18.4.3.8 are also met.

Note: Major rehabilitation involves the modification of more than 50 percent, or more than 4500 square feet of the area of the smoke compartment.

18.1.1.4.3.3, 19.1.1.4.3.3

Interpretive Guideline

FED - K0131 - Multiple Occupancies

Title Multiple Occupancies

Type Standard

CFR NFPA 101

Regulation Definition

Multiple Occupancies - Sections of Health Care Facilities

Sections of health care facilities classified as other occupancies meet all of the following:

- o They are not intended to serve four or more inpatients for purposes of housing, treatment, or customary access.
- o They are separated from areas of health care occupancies by
 - construction having a minimum two hour fire resistance rating in accordance with Chapter 8.
- o The entire building is protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7.

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Hospital outpatient surgical departments are required to be classified as an Ambulatory Health Care Occupancy regardless of the number of patients served.

18.1.3.3, 42 CFR 482.41, 42 CFR 485.623

FED - K0132 - Multiple Occupancies - Contiguous Non-Health

Title Multiple Occupancies - Contiguous Non-Health

Type Standard

CFR NFPA 101

Regulation Definition

Multiple Occupancies - Contiguous Non-Health Care Occupancies

Non-health care occupancies that are located immediately next to a Health Care Occupancy, but are primarily intended to provide outpatient services are permitted to be classified as Business or Ambulatory Health Care Occupancies, provided the facilities are separated by construction having not less than two hour fire resistance-rated construction, and are not intended to provide services simultaneously for four or more inpatients. Outpatient surgical departments must be classified as Ambulatory Health Care Occupancy regardless of the number of patients served.

18.1.3.4.1, 19.1.3.4.1

Interpretive Guideline

FED - K0133 - Multiple Occupancies - Construction Type

Title Multiple Occupancies - Construction Type

Type Standard

CFR NFPA 101

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Regulation Definition

Interpretive Guideline

Multiple Occupancies - Construction Type

Where separated occupancies are in accordance with 18/19.1.3.2 or 18/19.1.3.4, the most stringent construction type is provided throughout the building, unless a two hour separation is provided in accordance with 8.2.1.3, in which case the construction type is determined as follows:

*The construction type and supporting construction of the health care occupancy is based on the story in which it is located in the building in accordance with 18/19.1.6 and Tables 18/19.1.6.1

*The construction type of the areas of the building enclosing the other occupancies shall be based on the applicable occupancy chapters.

18.1.3.5, 19.1.3.5, 8.2.1.3

FED - K0161 - Building Construction Type and Height

Title Building Construction Type and Height

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Building Construction Type and Height

2012 NEW

Building construction type and stories meets Table 18.1.6.1, unless otherwise permitted by 18.1.6.2 through 18.1.6.7.

18.1.6.4, 18.1.6.5

Construction Type

1 I (442), I (332), II (222) Not allowed
non-sprinklered

Any number of stories

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2	II (111)	Not allowed non-sprinklered Maximum 3 stories sprinklered
3	II (000)	Not allowed non-sprinklered
4	III (211)	Maximum 1 story sprinklered
5	IV (2HH)	
6	V (111)	
7	III (200)	Not allowed non-sprinklered
8	V (000)	

Sprinklered stories must be sprinklered throughout by an approved, supervised automatic system in accordance with section 9.7. (See 18.3.5)

Give a brief description, in REMARKS, of the construction, the number of stories, including basements, floors on which patients are located, location of smoke or fire barriers and dates of approval. Complete sketch or attach small floor plan of the building as appropriate.

FED - K0162 - Roofing Systems Involving Combustibles

Title Roofing Systems Involving Combustibles

Type Standard

CFR NFPA 101

Regulation Definition

Roofing Systems Involving Combustibles

2012 NEW

Buildings of Type I (442), Type I (332), Type II (222), Type II (111) having roof systems employing combustible roofing supports, decking or roofing meet the following:

1. roof covering meets Class A requirements.
2. roof is separated from occupied building portions with two hour fire resistive noncombustible floor assembly using

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not less than 2-1/2 inches concrete or gypsum fill.

3. the structural elements supporting the rated floor assembly meet the required fire resistance rating of the building.

18.1.6.2, ASTM E108, ANSI/UL 790

FED - K0163 - Interior Nonbearing Wall Construction

Title Interior Nonbearing Wall Construction

Type Standard

CFR NFPA 101

Regulation Definition

Interior Nonbearing Wall Construction

Interior nonbearing walls in Type I or II construction are constructed of noncombustible or limited-combustible materials.

Interior nonbearing walls required to have a minimum 2 hour fire resistance rating are permitted to be fire-retardant-treated wood enclosed within noncombustible or limited-combustible materials, provided they are not used as shaft enclosures.

18.1.6.4, 18.1.6.5

Interpretive Guideline

FED - K0200 - Means of Egress Requirements - Other

Title Means of Egress Requirements - Other

Type Standard

CFR NFPA 101

Regulation Definition

Means of Egress Requirements - Other

List in the REMARKS section any LSC Section 18.2 and 19.2

Means of Egress requirements that are not addressed by the

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provided K-tags, but are deficient. This information, along with the applicable Life Safety Code or NFPA standard citation, should be included on Form CMS-2567.
18.2, 19.2

FED - K0211 - Means of Egress - General

Title Means of Egress - General

Type Standard

CFR NFPA 101

Regulation Definition

Means of Egress - General

Aisles, passageways, corridors, exit discharges, exit locations, and accesses are in accordance with Chapter 7, and the means of egress is continuously maintained free of all obstructions to full use in case of emergency, unless modified by 18/19.2.2 through 18/19.2.11.

18.2.1, 19.2.1, 7.1.10.1

Interpretive Guideline

FED - K0221 - Patient Sleeping Room Doors

Title Patient Sleeping Room Doors

Type Standard

CFR NFPA 101

Regulation Definition

Patient Sleeping Room Doors

Locks on patient sleeping room doors are not permitted unless the key-locking device that restricts access from the corridor does not restrict egress from the patient room, or the locking arrangement is permitted for patient clinical, security or safety needs in accordance with 18.2.2.2.5 or 19.2.2.2.5.

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18.2.2.2, 19.2.2.2, TIA 12-4

FED - K0222 - Egress Doors

Title Egress Doors

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Egress Doors

Doors in a required means of egress shall not be equipped with a latch or a lock that requires the use of a tool or key from the egress side unless using one of the following special locking arrangements:

CLINICAL NEEDS OR SECURITY THREAT LOCKING

Where special locking arrangements for the clinical security needs of the patient are used, only one locking device shall be permitted on each door and provisions shall be made for the rapid removal of occupants by: remote control of locks; keying of all locks or keys carried by staff at all times; or other such reliable means available to the staff at all times.

18.2.2.2.5.1, 18.2.2.2.6, 19.2.2.2.5.1, 19.2.2.2.6

SPECIAL NEEDS LOCKING ARRANGEMENTS

Where special locking arrangements for the safety needs of the patient are used, all of the Clinical or Security Locking requirements are being met. In addition, the locks must be electrical locks that fail safely so as to release upon loss of power to the device; the building is protected by a supervised automatic sprinkler system and the locked space is protected by a complete smoke detection system (or is constantly monitored at an attended location within the locked space); and both the sprinkler and detection systems are arranged to unlock the doors upon activation.

18.2.2.2.5.2, 19.2.2.2.5.2, TIA 12-4

DELAYED-EGRESS LOCKING ARRANGEMENTS

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Approved, listed delayed-egress locking systems installed in accordance with 7.2.1.6.1 shall be permitted on door assemblies serving low and ordinary hazard contents in buildings protected throughout by an approved, supervised automatic fire detection system or an approved, supervised automatic sprinkler system.

18.2.2.2.4, 19.2.2.2.4

**ACCESS-CONTROLLED EGRESS LOCKING
ARRANGEMENTS**

Access-Controlled Egress Door assemblies installed in accordance with 7.2.1.6.2 shall be permitted.

18.2.2.2.4, 19.2.2.2.4

**ELEVATOR LOBBY EXIT ACCESS LOCKING
ARRANGEMENTS**

Elevator lobby exit access door locking in accordance with 7.2.1.6.3 shall be permitted on door assemblies in buildings protected throughout by an approved, supervised automatic fire detection system and an approved, supervised automatic sprinkler system.

18.2.2.2.4, 19.2.2.2.4

FED - K0223 - Doors with Self-Closing Devices

Title Doors with Self-Closing Devices

Type Standard

CFR NFPA 101

Regulation Definition

Doors with Self-Closing Devices

Doors in an exit passageway, stairway enclosure, or horizontal exit, smoke barrier, or hazardous area enclosure are self-closing and kept in the closed position, unless held open by a release device complying with 7.2.1.8.2 that automatically closes all such doors throughout the smoke compartment or entire facility upon activation of:

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- *Required manual fire alarm system; and
 - *Local smoke detectors designed to detect smoke passing through the opening or a required smoke detection system; and
 - *Automatic sprinkler system, if installed; and
 - *Loss of power.
- 18.2.2.2.7, 18.2.2.2.8, 19.2.2.2.7, 19.2.2.2.8

FED - K0224 - Horizontal Sliding Doors

Title Horizontal Sliding Doors

Type Standard

CFR NFPA 101

Regulation Definition

Horizontal-Sliding Doors

Horizontal-sliding doors permitted by 7.2.1.14 that are not automatic-closing are limited to a single leaf and shall have a latch or other mechanism to ensure the door will not rebound. Horizontal-sliding doors serving an occupant load fewer than 10 shall be permitted, providing all of the following criteria are met:

- o Area served by the door has no high hazard contents.
 - o Door is operable from either side without special knowledge or effort.
 - o Force required to operate the door in the direction of travel is less than or equal to 30 lbf to set the door in motion and less than or equal to 15 lbf to close or open to the required width.
 - o Assembly is appropriately fire rated, and where rated, is self-closing or automatic-closing by smoke detection per 7.2.1.8, and installed per NFPA 80.
 - o Where required to latch, the door has a latch or other mechanism to ensure the door will not rebound.
- 18.2.2.2.10

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FED - K0225 - Stairways and Smokeproof Enclosures

Title Stairways and Smokeproof Enclosures

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Stairways and Smokeproof Enclosures

Stairways and Smokeproof enclosures used as exits are in accordance with 7.2.

18.2.2.3, 18.2.2.4, 19.2.2.3, 19.2.2.4, 7.2

FED - K0226 - Horizontal Exits

Title Horizontal Exits

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Horizontal Exits

Horizontal exits, if used, are in accordance with 7.2.4 and the provisions of 18.2.2.5.1 through 18.2.2.5.7, or 19.2.2.5.1 through 19.2.2.5.4.

18.2.2.5, 19.2.2.5

FED - K0227 - Ramps and Other Exits

Title Ramps and Other Exits

Type Standard

CFR NFPA 101

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Regulation Definition

Interpretive Guideline

Ramps and Other Exits

Ramps, exit passageways, fire and slide escapes, alternating tread devices, and areas of refuge are in accordance with the provisions 7.2.5 through 7.2.12.

18.2.2.6 to 18.2.2.10 or 19.2.2.6 to 19.2.2.10

FED - K0231 - Means of Egress Capacity

Title Means of Egress Capacity

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Means of Egress Capacity

The capacity of required means of egress is in accordance with 7.3.

18.2.3.1, 19.2.3.1

FED - K0232 - Aisle, Corridor, or Ramp Width

Title Aisle, Corridor, or Ramp Width

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Aisle, Corridor or Ramp Width

2012 NEW

The width of aisles or corridors (clear and unobstructed) serving as exit access in hospitals and nursing homes shall be at least 8 feet. In limited care facility and psychiatric hospitals, width of aisles or corridors shall be at least 6 feet, except as

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modified by the 18.2.3.4 or 18.2.3.5 exceptions.
18.2.3.4, 18.2.3.5

FED - K0233 - Clear Width of Exit and Exit Access Doors

Title Clear Width of Exit and Exit Access Doors

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Clear Width of Exit and Exit Access Doors
2012 NEW

Exit access doors and exit doors are of the swinging type and are at least 41.5 inches in clear width. In psychiatric hospitals or limited care facilities, doors are at least 32 inches wide. Doors not subject to patient use, in exit stairway enclosures, or serving newborn nurseries shall be no less than 32 inches in clear width. If using a pair of doors, the doors shall be provided with a rabbet, bevel, or astragal at the meeting edge, at least one of the doors shall provide 32 inches in clear width, and the inactive leaf of the pair shall be secured with automatic flush bolts.
18.2.3.6, 18.2.3.7

FED - K0241 - Number of Exits - Story and Compartment

Title Number of Exits - Story and Compartment

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Number of Exits - Story and Compartment
Not less than two exits, remote from each other, and

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accessible from every part of every story are provided for each story. Each smoke compartment shall likewise be provided with two distinct egress paths to exits that do not require the entry into the same adjacent smoke compartment.

18.2.4.1-18.2.4.4, 19.2.4.1-19.2.4.4

FED - K0251 - Dead-End Corridors and Common Path of Travel

Title Dead-End Corridors and Common Path of Travel

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Dead-End Corridors and Common Path of Travel
2012 NEW

Dead-end corridors shall not exceed 30 feet. Common path of travel shall not exceed 100 feet.

18.2.5.2, 18.2.5.3

FED - K0252 - Number of Exits - Corridors

Title Number of Exits - Corridors

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Number of Exits - Corridors

Every corridor shall provide access to not less than two approved exits in accordance with Sections 7.4 and 7.5 without passing through any intervening rooms or spaces other than corridors or lobbies.

18.2.5.4, 19.2.5.4

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FED - K0253 - Number of Exits - Patient Sleeping and Non-SI

Title Number of Exits - Patient Sleeping and Non-SI

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Number of Exits - Patient Sleeping and Non-Sleeping Rooms
Patient sleeping rooms of more than 1,000 square feet or nonsleeping rooms of more than 2,500 square feet have at least two exit access doors remotely located from each other.
18.2.5.5.1, 18.2.5.5.2, 19.2.5.5.1, 19.2.5.5.2

FED - K0254 - Corridor Access

Title Corridor Access

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Corridor Access
All habitable rooms not within suites have a door leading directly outside to grade or have a door leading to an exit access corridor. Patient sleeping rooms with less than eight patient beds may have one room intervening to reach an exit access corridor provided the intervening room is equipped with an approved automatic smoke detection system.
18.2.5.6.1 through 18.2.5.6.4, 19.2.5.6.1 through 19.2.5.6.4

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FED - K0255 - Suite Separation, Hazardous Content, and Subd

Title Suite Separation, Hazardous Content, and Subd

Type Standard

CFR NFPA 101

Regulation Definition

Suite Separation, Hazardous Content, and Subdivision

All suites are separated from the remainder of the building (including from other suites) by construction meeting the separation provisions for corridor construction (18.3.6.2-18.3.6.5 or 19.3.6.2-19.3.6.5). Existing approved barriers shall be allowed to continue to be used provided they limit the transfer of smoke. Intervening rooms have no hazardous areas and hazardous areas within suites comply with 18/19.2.5.7.1.3. Subdivision of suites shall be by noncombustible or limited-combustible construction. 18.2.5.7.1.2 through 18.2.5.7.1.4, 19.2.5.7.1.2, 19.2.5.7.1.3, 19.2.5.7.1.4

Interpretive Guideline

FED - K0256 - Sleeping Suites

Title Sleeping Suites

Type Standard

CFR NFPA 101

Regulation Definition

Sleeping Suites

Occupants shall have exit access to a corridor or direct access to a horizontal exit. Where greater than or equal to two exits are required, one exit access door may be to a stairway, passageway or to the exterior. Suites shall be provided with

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constant staff supervision. Staff shall have direct visual supervision of patient sleeping rooms, from a constantly attended location or the room shall be provided with an automatic smoke detection system.

Suites more than 1,000 square feet shall have two or more remote exits. One means of egress from the suite shall be to a corridor and one may be into an adjacent suite separated in accordance with corridor requirements.

Suites shall not exceed the following size limitations:

*5,000 square feet if the suite is not fully smoke detected or fully sprinklered.

*7,500 square feet if the suite is either fully smoke detected or fully sprinklered.

*10,000 square feet if the suite is both fully smoke detected and fully sprinklered and the sleeping rooms have direct supervision from a constantly attended location.

Travel distance between any point in a suite to exit access shall not exceed 100 feet and distance to an exit shall not exceed 150 feet (200 feet if building is fully sprinklered).

18.2.5.7.2, 19.2.5.7.2

FED - K0257 - Non-Sleeping Suites

Title Non-Sleeping Suites

Type Standard

CFR NFPA 101

Regulation Definition

Non-Sleeping Suites

Occupants shall have exit access to a corridor or direct access to a horizontal exit. Where greater than or equal to two exits are required, one exit access door may be to a stairway, passageway or to the exterior.

Suites more than 2,500 square feet shall have two or more remote exits. One means of egress from the suite shall be to a

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corridor and one may be into an adjacent suite separated in accordance with corridor requirements.

Suites shall not exceed 10,000 square feet.

Travel distance between any point in a suite to exit access shall not exceed 100 feet and distance to an exit shall not exceed 150 feet (200 feet if building is fully sprinklered).

18.2.5.7.3, 19.2.5.7.3

FED - K0261 - Travel Distance to Exits

Title Travel Distance to Exits

Type Standard

CFR NFPA 101

Regulation Definition

Travel Distance to Exits

Travel distance (excluding suites) to exits are measured in accordance with 7.6.

*From any point in the room or suite to exit less than or equal to 150 feet (less than or equal to 200 feet if the building is fully sprinklered).

*Point in a room to room door less than or equal to 50 feet.

18.2.6, 19.2.6

Interpretive Guideline

FED - K0271 - Discharge from Exits

Title Discharge from Exits

Type Standard

CFR NFPA 101

Regulation Definition

Discharge from Exits

Exit discharge is arranged in accordance with 7.7, provides a

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level walking surface meeting the provisions of 7.1.7 with respect to changes in elevation and shall be maintained free of obstructions. Additionally, the exit discharge shall be a hard packed all-weather travel surface.

18.2.7, 19.2.7

FED - K0281 - Illumination of Means of Egress

Title Illumination of Means of Egress

Type Standard

CFR NFPA 101

Regulation Definition

Illumination of Means of Egress

Illumination of means of egress, including exit discharge, is arranged in accordance with 7.8 and shall be either continuously in operation or capable of automatic operation without manual intervention.

18.2.8, 19.2.8

Interpretive Guideline

FED - K0291 - Emergency Lighting

Title Emergency Lighting

Type Standard

CFR NFPA 101

Regulation Definition

Emergency Lighting

Emergency lighting of at least 1-1/2 hour duration is provided automatically in accordance with 7.9.

18.2.9.1, 19.2.9.1

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FED - K0292 - Means of Egress

Title Means of Egress

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Life Support Means of Egress

2012 NEW

Buildings equipped with or requiring the use of life support systems (electro-mechanical or inhalation anesthetics) have illumination of means of egress, emergency lighting equipment, exit, and directional signs supplied by the life safety branch of the electrical system described in NFPA 99. (Indicate N/A if life support equipment is for emergency purposes only.)

18.2.9.2, 18.2.10.5

FED - K0293 - Exit Signage

Title Exit Signage

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Exit Signage

2012 NEW

Exit and directional signs are displayed in accordance with 7.10 with continuous illumination also served by the emergency lighting system.

18.2.10.1

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FED - K0300 - Protection - Other

Title Protection - Other

Type Standard

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Regulation Definition

Interpretive Guideline

Protection - Other

List in the REMARKS section any LSC Section 18.3 and 19.3 Protection requirements that are not addressed by the provided K-tags, but are deficient. This information, along with the applicable Life Safety Code or NFPA standard citation, should be included on Form CMS-2567.

FED - K0311 - Vertical Openings - Enclosure

Title Vertical Openings - Enclosure

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Vertical Openings - Enclosure

2012 NEW

Stairways, elevator shafts, light and ventilation shafts, chutes, and other vertical openings between floors are enclosed with construction having a fire resistance rating of at least 2 hours connecting four or more stories. (1 hour for single story building and buildings up to three stories in height.) An atrium may be used in accordance with 8.6.7.

18.3.1 through 18.3.1.5

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FED - K0321 - Hazardous Areas - Enclosure

Title Hazardous Areas - Enclosure

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Hazardous Areas - Enclosure

2012 New

Hazardous areas are protected in accordance with 18.3.2.1.

The areas shall be enclosed with a 1-hour fire-rated barrier, with a 3/4-hour fire-rated door without windows (in accordance with 8.7.1.1). Doors shall be self-closing or automatic-closing in accordance with 7.2.1.8. Hazardous areas are protected by a sprinkler system in accordance with 9.7, 18.3.2.1, and 8.4.

Describe the floor and zone locations of hazardous areas that are deficient in REMARKS.

18.3.2.1, 7.2.1.8, 8.4, 8.7, 9.7

Area	Automatic Sprinkler	Separation
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N/A

- a. Boiler and Fuel-Fired Heater Rooms
- b. Laundries (larger than 100 square feet)
- c. Repair, Maintenance, and Paint Shops
- d. Soiled Linen Rooms (exceeding 64 gallons)
- e. Trash Collection Rooms (exceeding 64 gallons)
- f. Combustible Storage Rooms/Spaces (over 50 and less than 100 square feet)
- g. Combustible Storage Rooms/Spaces (over 100 square feet)
- h. Laboratories (if classified as Severe Hazard - see K322)

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FED - K0322 - Laboratories

Title Laboratories

Type Standard

CFR NFPA 101

Regulation Definition

Laboratories

Laboratories employing quantities of flammable, combustible, or hazardous materials that are considered a severe hazard are protected by 1-hour fire resistance-rated separation, automatic sprinkler system, and are in accordance with 8.7 and with NFPA 99.

Laboratories not considered a severe hazard are protected as hazardous areas (see K321).

Laboratories using chemicals are in accordance with NFPA 45, Standard on Fire Protection for Laboratories Using Chemicals.

Gas appliances are of appropriate design and installed in accordance with NFPA 54. Shutoff valves are marked to identify material they control. Devices requiring medical grade oxygen from the piped distribution system meet the requirements under 11.4.2.2 (NFPA 99).

18.3.2.2, 8.7, 8.7.4.1 (LSC)

9.3.1.2, 11.4.3.2, 15.4 (NFPA 99)

Interpretive Guideline

FED - K0323 - Anesthetizing Locations

Title Anesthetizing Locations

Type Standard

CFR NFPA 101

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Regulation Definition

Anesthetizing Locations

Areas designated for administration of general anesthesia (i.e., inhalation anesthetics) are in accordance with 8.7 and NFPA 99.

Zone valves are: located immediately outside each life-support, critical care and anesthetizing location of moderate sedation, deep sedation, or general anesthesia for medical gas or vacuum; readily accessible in an emergency; and arranged so shutting off any one anesthetizing location will not affect others.

Area alarm panels are provided to monitor all medical gas, medical-surgical vacuum, and piped WAGD systems. Panels are at locations that provide for surveillance, indicate medical gas pressure decreases of 20 percent and vacuum decreases of 12 inch gauge HgV, and provide visual and audible indication. Alarm sensors are installed either on the source side of individual room zone valve box assemblies or on the patient/use side of each of the individual zone box valve assemblies.

The EES critical branch supplies power for task illumination, fixed equipment, select receptacles, and select power circuits, and EES equipment system supplies power to ventilation system.

Heating, cooling, and ventilation are in accordance with ASHRAE 170. Medical supply and equipment manufacturer's instructions for use are considered before reducing humidity levels to those allowed by ASHRAE, per S&C 13-58.

18.3.2.3 (LSC)

5.1.4.8.7, 5.1.4.8.7.2, 5.1.9.3, 5.1.9.3.4, 6.4.2.2.4.2 (NFPA 99)

Interpretive Guideline

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FED - K0324 - Cooking Facilities

Title Cooking Facilities

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Cooking Facilities

Cooking equipment is protected in accordance with NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, unless:

*residential cooking equipment (i.e., small appliances such as microwaves, hot plates, toasters) are used for food warming or limited cooking in accordance with 18.3.2.5.2, 19.3.2.5.2.

*cooking facilities open to the corridor in smoke compartments with 30 or fewer patients comply with the conditions under 18.3.2.5.3, 19.3.2.5.3, or

*cooking facilities in smoke compartments with 30 or fewer patients comply with conditions under 18.3.2.5.4, 19.3.2.5.4.

Cooking facilities protected according to NFPA 96 per 9.2.3 are not required to be enclosed as hazardous areas, but shall not be open to the corridor.

18.3.2.5.1 through 18.3.2.5.4, 19.3.2.5.1 through 19.3.2.5.5, 9.2.3, TIA 12-2

FED - K0325 - Alcohol Based Hand Rub Dispenser (ABHR)

Title Alcohol Based Hand Rub Dispenser (ABHR)

Type Standard

CFR NFPA 101

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Regulation Definition

Alcohol Based Hand Rub Dispenser (ABHR)

ABHRs are protected in accordance with 8.7.3.1, unless all conditions are met:

*Corridor is at least 6 feet wide.

*Maximum individual dispenser capacity is 0.32 gallons (0.53 gallons in suites) of fluid and 18 ounces of Level 1 aerosols.

*Dispensers shall have a minimum of 4 foot horizontal spacing.

*Not more than an aggregate of 10 gallons of fluid or 135 ounces aerosol are used in a single smoke compartment outside a storage cabinet, excluding one individual dispenser per room.

*Storage in a single smoke compartment greater than five gallons complies with NFPA 30.

*Dispensers are not installed within one inch of an ignition source.

*Dispensers over carpeted floors are in sprinklered smoke compartments.

*ABHR does not exceed 95 percent alcohol.

*Operation of the dispenser shall comply with Section 18.3.2.6(11) or 19.3.2.6(11).

*ABHR is protected against inappropriate access.
18.3.2.6, 19.3.2.6, 42 CFR Parts 403, 418, 460, 482, 483, and 485

Interpretive Guideline

FED - K0331 - Interior Wall and Ceiling Finish

Title Interior Wall and Ceiling Finish

Type Standard

CFR NFPA 101

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Regulation Definition

Interpretive Guideline

Interior Wall and Ceiling Finish

2012 NEW

Interior wall and ceiling finishes, including exposed interior surfaces of buildings such as fixed or movable walls, partitions, columns, have a flame spread rating of Class A. The reduction in class of interior finish for a sprinkler system as prescribed in 10.2.8.1 is permitted.

Individual rooms not exceeding four persons may have a Class A or B finish.

Lower half of corridor walls, not exceeding 4 feet in height, may have a Class A or B flame spread rating.

10.2, 18.3.3.1, 18.3.3.2

Indicate flame spread rating(s). _____

FED - K0332 - Interior Floor Finish

Title Interior Floor Finish

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Interior Floor Finish

2012 NEW

Interior finishes shall comply with 10.2. Floor finishes in exit enclosures and exit access corridors and spaces not separated by walls that resist the passage of smoke shall be Class I or II.

18.3.3.3.1, 18.3.3.3.2, 18.3.3.3.3, 10.2, 10.2.7.1, 10.2.7.2

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FED - K0341 - Fire Alarm System - Installation

Title Fire Alarm System - Installation

Type Standard

CFR NFPA 101

Regulation Definition

Fire Alarm System - Installation

A fire alarm system is installed with systems and components approved for the purpose in accordance with NFPA 70, National Electric Code, and NFPA 72, National Fire Alarm Code to provide effective warning of fire in any part of the building. In areas not continuously occupied, detection is installed at each fire alarm control unit. In new occupancy, detection is also installed at notification appliance circuit power extenders, and supervising station transmitting equipment. Fire alarm system wiring or other transmission paths are monitored for integrity.

18.3.4.1, 19.3.4.1, 9.6, 9.6.1.8

Interpretive Guideline

FED - K0342 - Fire Alarm System - Initiation

Title Fire Alarm System - Initiation

Type Standard

CFR NFPA 101

Regulation Definition

Fire Alarm System - Initiation

Initiation of the fire alarm system is by manual means and by any required sprinkler system alarm, detection device, or detection system. Manual alarm boxes are provided in the path of egress near each required exit. Manual alarm boxes in

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patient sleeping areas shall not be required at exits if manual alarm boxes are located at all nurse's stations or other continuously attended staff location, provided alarm boxes are visible, continuously accessible, and 200 feet travel distance is not exceeded.

18.3.4.2.1, 18.3.4.2.2, 19.3.4.2.1, 19.3.4.2.2, 9.6.2.5

FED - K0343 - Fire Alarm System - Notification

Title Fire Alarm System - Notification

Type Standard

CFR NFPA 101

Regulation Definition

Fire Alarm - Notification

2012 NEW

Positive alarm sequence in accordance with 9.6.3.4 are permitted. Occupant notification is provided automatically in accordance with 9.6.3 by audible and visual signals.

In critical care areas, visual alarms are sufficient. The fire alarm system transmits the alarm automatically to notify emergency forces in the event of a fire.

Annunciation and annunciation zoning for fire alarm and sprinklers shall be provided by audible and visual indicators and zones shall not be larger than 22,500 square feet per zone.

18.3.4.3 through 18.3.4.3.3, 9.6.4

Interpretive Guideline

FED - K0344 - Fire Alarm - Control Functions

Title Fire Alarm - Control Functions

Type Standard

CFR NFPA 101

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Regulation Definition

Interpretive Guideline

Fire Alarm - Control Functions

The fire alarm automatically activates required control functions and is provided with an alternative power supply in accordance with NFPA 72.

18.3.4.4, 19.3.4.4, 9.6.1, 9.6.5, NFPA 72

FED - K0345 - Fire Alarm System - Testing and Maintenance

Title Fire Alarm System - Testing and Maintenance

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Fire Alarm System - Testing and Maintenance

A fire alarm system is tested and maintained in accordance with an approved program complying with the requirements of NFPA 70, National Electric Code, and NFPA 72, National Fire Alarm and Signaling Code. Records of system acceptance, maintenance and testing are readily available.

9.6.1.3, 9.6.1.5, NFPA 70, NFPA 72

FED - K0346 - Fire Alarm System - Out of Service

Title Fire Alarm System - Out of Service

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Fire Alarm - Out of Service

Where required fire alarm system is out of services for more than four hours in a 24 hour period, the authority having

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jurisdiction shall be notified, and the building shall be evacuated or an approved fire watch shall be provided for all parties left unprotected by the shutdown until the fire alarm system has been returned to service.

9.6.1.6

FED - K0347 - Smoke Detection

Title Smoke Detection

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Smoke Detection

2012 NEW

Smoke detection systems are provided in spaces open to corridors as required by 18.3.6.1

In nursing homes, an automatic smoke detection system is installed in the corridors of all smoke compartments containing resident sleeping rooms, unless the resident sleeping rooms have:

- *smoke detection, or

- *automatic door closing devices with integral smoke detectors on the room side that provide occupant notification.

Such detectors are electrically interconnected to the fire alarm system.

18.3.4.5.2, 18.3.4.5.3

FED - K0351 - Sprinkler System - Installation

Title Sprinkler System - Installation

Type Standard

CFR NFPA 101

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Regulation Definition

Sprinkler System - Installation

2012 NEW

Buildings are to be protected throughout by an approved automatic sprinkler system in accordance with NFPA 13, Standard for the Installation of Sprinkler Systems.

In Type I and II construction, alternative protection measures are permitted to be substituted for sprinkler protection in specific areas where state and local regulations prohibit sprinklers.

Listed quick-response or listed residential sprinklers are used throughout smoke compartments with patient sleeping rooms.

In hospitals, sprinklers are not required in clothes closets of patient sleeping rooms where the area of the closet does not exceed six square feet and sprinkler coverage covers the closet footprint as required by NFPA 13, Standard for Installation of Sprinkler Systems.

18.3.5.1, 18.3.5.4, 18.3.5.5, 18.3.5.6, 9.7, 9.7.1.1(1),
18.3.5.10

Interpretive Guideline

FED - K0352 - Sprinkler System - Supervisory Signals

Title Sprinkler System - Supervisory Signals

Type Standard

CFR NFPA 101

Regulation Definition

Sprinkler System - Supervisory Signals

Automatic sprinkler system supervisory attachments are installed and monitored for integrity in accordance with NFPA 72, National Fire Alarm and Signaling Code, and provide a signal that sounds and is displayed at a continuously attended location or approved remote facility when sprinkler operation is impaired.

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9.7.2.1, NFPA 72

FED - K0353 - Sprinkler System - Maintenance and Testing

Title Sprinkler System - Maintenance and Testing

Type Standard

CFR NFPA 101

Regulation Definition

Sprinkler System - Maintenance and Testing

Automatic sprinkler and standpipe systems are inspected, tested, and maintained in accordance with NFPA 25, Standard for the Inspection, Testing, and Maintaining of Water-based Fire Protection Systems. Records of system design, maintenance, inspection and testing are maintained in a secure location and readily available.

a) Date sprinkler system last checked

b) Who provided system test

c) Water system supply source

Provide in REMARKS information on coverage for any non-required or partial automatic sprinkler system.

9.7.5, 9.7.7, 9.7.8, and NFPA 25

Interpretive Guideline

FED - K0354 - Sprinkler System - Out of Service

Title Sprinkler System - Out of Service

Type Standard

CFR NFPA 101

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Regulation Definition

Sprinkler System - Out of Service

Where the sprinkler system is impaired, the extent and duration of the impairment has been determined, areas or buildings involved are inspected and risks are determined, recommendations are submitted to management or designated representative, and the fire department and other authorities having jurisdiction have been notified. Where the sprinkler system is out of service for more than 10 hours in a 24 hour period, the building or portion of the building affected are evacuated or an approved fire watch is provided until the sprinkler system has been returned to service.

18.3.5.1, 19.3.5.1, 9.7.5, 15.5.2 (NFPA 25)

Interpretive Guideline

FED - K0355 - Portable Fire Extinguishers

Title Portable Fire Extinguishers

Type Standard

CFR NFPA 101

Regulation Definition

Portable Fire Extinguishers

Portable fire extinguishers are selected, installed, inspected, and maintained in accordance with NFPA 10, Standard for Portable Fire Extinguishers.

18.3.5.12, 19.3.5.12, NFPA 10

Interpretive Guideline

FED - K0361 - Corridors - Areas Open to Corridor

Title Corridors - Areas Open to Corridor

Type Standard

CFR NFPA 101

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Regulation Definition

Interpretive Guideline

Corridors - Areas Open to Corridor
Spaces (other than patient sleeping rooms, treatment rooms and hazardous areas), waiting areas, nurse's stations, gift shops, and cooking facilities, open to the corridor are in accordance with the criteria under 18.3.6.1 and 19.3.6.1.
18.3.6.1, 19.3.6.1

FED - K0362 - Corridors - Construction of Walls

Title Corridors - Construction of Walls

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Corridors - Construction of Walls
2012 NEW
Corridor walls shall form a barrier to limit the transfer of smoke. Such walls shall be permitted to terminate at the ceiling where the ceiling is constructed to limit the transfer of smoke. No fire resistance rating is required for the corridor walls.
18.3.6.2

FED - K0363 - Corridor - Doors

Title Corridor - Doors

Type Standard

CFR NFPA 101

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Regulation Definition

Doors protecting corridor openings shall be constructed to resist the passage of smoke. Corridor doors and doors to rooms containing flammable or combustible materials have self-latching and positive latching hardware. Roller latches are prohibited by CMS regulation. These requirements do not apply to auxiliary spaces that do not contain flammable or combustible material.

Clearance between bottom of door and floor covering is not exceeding 1 inch. Powered doors complying with 7.2.1.9 are permissible if provided with a device capable of keeping the door closed when a force of 5 lbf is applied.

There is no impediment to the closing of the doors. Hold open devices that release when the door is pushed or pulled are permitted. Nonrated protective plates of unlimited height are permitted. Dutch doors meeting 18.3.6.3.6 are permitted.

18.3.6.3, 42 CFR Parts 403, 418, 460, 482, 483, and 485
Show in REMARKS details of doors such as fire protection ratings, automatic closing devices, etc.

Interpretive Guideline

FED - K0364 - Corridor - Openings

Title Corridor - Openings

Type Standard

CFR NFPA 101

Regulation Definition

Corridor - Openings

Transfer grilles are not used in corridor walls or doors.

Auxiliary spaces that do not contain flammable or combustible materials are permitted to have louvers or be undercut.

In other than smoke compartments containing patient sleeping rooms, miscellaneous openings are permitted in vision panels

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or doors, provided the openings per room do not exceed 20 square inches and are at or below half the distance from floor to ceiling. In sprinklered rooms, the openings per room do not exceed 80 square inches.

Vision panels in corridor walls or doors shall be fixed window assemblies in approved frames. (In fully sprinklered smoke compartments, there are no restrictions in the area and fire resistance of glass and frames.)

18.3.6.5.1, 19.3.6.5.2, 8.3

FED - K0371 - Subdivision of Building Spaces - Smoke Compar

Title Subdivision of Building Spaces - Smoke Compar

Type Standard

CFR NFPA 101

Regulation Definition

Subdivision of Building Spaces - Smoke Compartments

2012 NEW

Smoke barriers shall be provided to form at least two smoke compartments on every floor used by inpatients for sleeping or treatment, and on every floor with an occupant load of 50 or more persons, regardless of use.

Size of compartments cannot exceed 22,500 square feet or a 200 foot travel distance from any point in the compartment to a door in the smoke barrier.

Smoke subdivision requirements do not apply to any of the stories or areas described in 18.3.7.2.

18.3.7.1, 18.3.7.2

Detail in REMARKS zone dimensions including length of zones and dead-end corridors.

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FED - K0372 - Subdivision of Building Spaces - Smoke Barrie

Title Subdivision of Building Spaces - Smoke Barrie

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Subdivision of Building Spaces - Smoke Barrier Construction
2012 NEW

Smoke barriers shall be constructed to provide at least a one hour fire resistance rating and constructed in accordance with 8.5. Smoke barriers shall be permitted to terminate at an atrium wall. Smoke dampers are not required in duct penetrations of fully ducted HVAC systems.

18.3.7.3, 18.3.7.4, 18.3.7.5, 8.3

Describe any mechanical smoke control system in
REMARKS.

FED - K0373 - Subdivision of Building Spaces - Accumulation

Title Subdivision of Building Spaces - Accumulation

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Subdivision of Building Spaces - Accumulation Space
Space shall be provided on each side of smoke barriers to adequately accommodate the total number of occupants in adjoining compartments.

18.3.7.5.1, 18.3.7.5.2, 19.3.7.5.1, 19.3.7.5.2

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FED - K0374 - Subdivision of Building Spaces - Smoke Barrie

Title Subdivision of Building Spaces - Smoke Barrie

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Subdivision of Building Spaces - Smoke Barrier Doors

2012 NEW

Doors in smoke barriers have at least a 20 minute fire protection rating or are at least 1-3/4 inch thick solid bonded core wood.

Required clear widths are provided per 18.3.7.6(4) and (5).

Nonrated protective plates that do not exceed 48 inches from the bottom of the door are permitted. Horizontal-sliding doors comply with 7.2.1.14. Swinging doors shall be arranged so that each door swings in an opposite direction.

Doors shall be self-closing and rabbets, bevels, or astragals are required at the meeting edges. Positive latching is not required.

18.3.7.6, 18.3.7.7, 18.3.7.8

FED - K0379 - Smoke Barrier Door Glazing

Title Smoke Barrier Door Glazing

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Smoke Barrier Door Glazing

2012 NEW

Windows in smoke barrier doors shall be installed in each

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cross corridor swinging or horizontal-sliding door protected by fire-rated glazing or by wired glass panels in approved frames.

18.3.7.9

FED - K0381 - Sleeping Room Outside Windows and Doors

Title Sleeping Room Outside Windows and Doors

Type Standard

CFR NFPA 101

Regulation Definition

Sleeping Room Outside Windows and Doors

Every patient sleeping room has an outside window or outside door. In new occupancies, sill height does not exceed 36 inches above the floor. Windows in atrium walls are considered outside windows. Newborn nurseries and rooms intended for occupancy less than 24 hours have no outside window or door requirements. Window sills in special nursing care areas (e.g., ICU, CCU, hemodialysis, neonatal) do not exceed 60 inches above the floor.

42 CFR 403, 418, 460, 482, 483, and 485

Interpretive Guideline

FED - K0400 - Special Provisions - Other

Title Special Provisions - Other

Type Standard

CFR NFPA 101

Regulation Definition

Special Provisions - Other

List in the REMARKS section any LSC Section 18.4 and 19.4

Special Provisions requirements that are not addressed by the

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provided K-tags, but are deficient. This information, along with the applicable Life Safety Code or NFPA standard citation, should be included on Form CMS-2567.

FED - K0421 - High-Rise Buildings

Title High-Rise Buildings

Type Standard

CFR NFPA 101

Regulation Definition

High-Rise Buildings
2012 NEW

High-rise buildings comply with section 11.8.
18.4.2

Interpretive Guideline

FED - K0500 - Building Services - Other

Title Building Services - Other

Type Standard

CFR NFPA 101

Regulation Definition

Building Services - Other
List in the REMARKS section any LSC Section 18.5 and 19.5 Building Services requirements that are not addressed by the provided K-tags, but are deficient. This information, along with the applicable Life Safety Code or NFPA standard citation, should be included on Form CMS-2567.

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FED - K0511 - Utilities - Gas and Electric

Title Utilities - Gas and Electric

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Utilities - Gas and Electric

Equipment using gas or related gas piping complies with NFPA 54, National Fuel Gas Code, electrical wiring and equipment complies with NFPA 70, National Electric Code. Existing installations can continue in service provided no hazard to life.

18.5.1.1, 19.5.1.1, 9.1.1, 9.1.2

FED - K0521 - HVAC

Title HVAC

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

HVAC

Heating, ventilation, and air conditioning shall comply with 9.2 and shall be installed in accordance with the manufacturer's specifications.

18.5.2.1, 19.5.2.1, 9.2

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FED - K0522 - HVAC - Any Heating Device

Title HVAC - Any Heating Device

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

HVAC - Any Heating Device

Any heating device, other than a central heating plant, is designed and installed so combustible materials cannot be ignited by device, and has a safety feature to stop fuel and shut down equipment if there is excessive temperature or ignition failure. If fuel fired, the device also:

- *is chimney or vent connected.

- *takes air for combustion from outside.

- *provides for a combustion system separate from occupied area atmosphere.

18.5.2.2, 19.5.2.2

FED - K0523 - HVAC - Suspended Unit Heaters

Title HVAC - Suspended Unit Heaters

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Suspended Unit Heaters

Suspended unit heaters are permitted provided the following are met:

- *Not located in means of egress or in patient rooms.

- *Located high enough to be out of reach of people in the area.

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*Has a safety feature to stop fuel and shut down equipment if there is excessive temperature or ignition failure.
18.5.2.3(1), 19.5.2.3(1)

FED - K0524 - HVAC - Direct-Vent Gas Fireplaces

Title HVAC - Direct-Vent Gas Fireplaces

Type Standard

CFR NFPA 101

Regulation Definition

Direct-Vent Gas Fireplaces

Direct-vent gas fireplaces, as defined in NFPA 54, inside of all smoke compartments containing patient sleeping areas comply with the requirements of 18.5.2.3(2), 19.5.2.3(2).

18.5.2.3(2), 19.5.2.3(2), NFPA 54

Interpretive Guideline

FED - K0525 - HVAC - Solid Fuel-Burning Fireplaces

Title HVAC - Solid Fuel-Burning Fireplaces

Type Standard

CFR NFPA 101

Regulation Definition

HVAC - Solid Fuel-Burning Fireplaces

Solid fuel-burning fireplaces are permitted in other than patient sleeping areas provided:

*Areas are separated by one hour fire resistance construction.

*Fireplace complies with 9.2.2.

*Fireplace enclosure resists breakage up to 650 degrees Fahrenheit and has heat-tempered glass.

*Room has supervised CO detection per 9.8.

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18.5.2.3(3) and 19.5.2.3(3)

FED - K0531 - Elevators

Title Elevators

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Elevators

2012 NEW

Elevators comply with the provision of 9.4. Elevators are inspected and tested as specified in ASME A17.1, Safety Code for Elevators and Escalators. Firefighter's Service is operated monthly with a written record. New elevators conform to ASME/ANSI A17.1, Safety Code for Elevators and Escalators, including Firefighter's Service Requirements. (Includes firefighter's Phase I key recall and smoke detector automatic recall, firefighter's service Phase II emergency in-car key operation, machine room smoke detectors, and elevator lobby smoke detectors.)

18.5.3, 9.4.2, 9.4.3

FED - K0532 - Escalators, Dumbwaiters, and Moving Walks

Title Escalators, Dumbwaiters, and Moving Walks

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Escalators, Dumbwaiters, and Moving Walks

2012 NEW

Escalators, dumbwaiters, and moving walks comply with the

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provisions of 9.4.
18.5.3, 9.4.2.2

FED - K0541 - Rubbish Chutes, Incinerators, and Laundry Chu

Title Rubbish Chutes, Incinerators, and Laundry Chu

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Rubbish Chutes, Incinerators, and Laundry Chutes
2012 NEW

Rubbish chutes, incinerators, and laundry chutes shall comply with the provisions of Section 9.5, unless otherwise specified in 18.5.4.2.

*The fire resistance rating of chute charging room shall not be required to exceed one hour.

*Any rubbish chute or linen chute shall be provided with automatic extinguishing protection in accordance with Section 9.7.

*Chutes shall discharge into a trash collection room used for no other purpose and shall be protected in accordance with 8.7.

18.5.4.2, 8.7, 9.5, 9.7, NFPA 82

FED - K0700 - Operating Features - Other

Title Operating Features - Other

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Operating Features - Other

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FED - K0711 - Evacuation and Relocation Plan

Title Evacuation and Relocation Plan

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Evacuation and Relocation Plan

There is a written plan for the protection of all patients and for their evacuation in the event of an emergency.

Employees are periodically instructed and kept informed with their duties under the plan, and a copy of the plan is readily available with telephone operator or with security. The plan addresses the basic response required of staff per 18/19.7.2.1.2 and provides for all of the fire safety plan components per 18/19.2.2.

18.7.1.1 through 18.7.1.3, 18.7.2.1.2, 18.7.2.2, 18.7.2.3, 19.7.1.1 through 19.7.1.3, 19.7.2.1.2, 19.7.2.2, 19.7.2.3

FED - K0712 - Fire Drills

Title Fire Drills

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Fire Drills

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Fire drills include the transmission of a fire alarm signal and simulation of emergency fire conditions. Fire drills are held at expected and unexpected times under varying conditions, at least quarterly on each shift. The staff is familiar with procedures and is aware that drills are part of established routine. Where drills are conducted between 9:00 PM and 6:00 AM, a coded announcement may be used instead of audible alarms.

18.7.1.4 through 18.7.1.7

FED - K0741 - Smoking Regulations

Title Smoking Regulations

Type Standard

CFR NFPA 101

Regulation Definition

Smoking Regulations

Smoking regulations shall be adopted and shall include not less than the following provisions:

1. Smoking shall be prohibited in any room, ward, or compartment where flammable liquids, combustible gases, or oxygen is used or stored and in any other hazardous location, and such area shall be posted with signs that read NO SMOKING or shall be posted with the international symbol for no smoking.
2. In health care occupancies where smoking is prohibited and signs are prominently placed at all major entrances, secondary signs with language that prohibits smoking shall not be required.
3. Smoking by patients classified as not responsible shall be prohibited.
4. The requirement of 18.7.4(3) shall not apply where the patient is under direct supervision.
5. Ashtrays of noncombustible material and safe design shall

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be provided in all areas where smoking is permitted.

6. Metal containers with self-closing cover devices into which ashtrays can be emptied shall be readily available to all areas where smoking is permitted.

18.7.4, 19.7.4

FED - K0751 - Draperies, Curtains, and Loosely Hanging Fabr

Title Draperies, Curtains, and Loosely Hanging Fabr

Type Standard

CFR NFPA 101

Regulation Definition

Draperies, Curtains, and Loosely Hanging Fabrics

Draperies, curtains including cubicle curtains and loosely hanging fabric or films shall be in accordance with 10.3.1.

Excluding curtains and draperies: at showers and baths; on windows in patient sleeping room located in sprinklered compartments; and in non-patient sleeping rooms in sprinklered compartments where individual drapery or curtain panels do not exceed 48 square feet or total area does not exceed 20 percent of the wall.

18.7.5.1, 18.3.5.11, 19.7.5.1, 19.3.5.11, 10.3.1

Interpretive Guideline

FED - K0752 - Upholstered Furniture and Mattresses

Title Upholstered Furniture and Mattresses

Type Standard

CFR NFPA 101

Regulation Definition

Upholstered Furniture and Mattresses

Newly introduced upholstered furniture meets Class I or char

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length, and heat release criteria in accordance with 10.3.2.1 and 10.3.3, unless the building is fully sprinklered.
Newly introduced mattresses shall meet char length and heat release criteria in accordance with 10.3.2.2 and 10.3.4, unless the building is fully sprinklered.
Upholstered furniture and mattresses belonging to nursing home residents do not have to meet these requirements as all nursing homes are required to be fully sprinklered.
Newly introduced upholstered furniture and mattresses means purchased on or after the LSC final rule effective date.
18.7.5.2, 18.7.5.4, 19.7.5.2, 19.7.5.4

FED - K0753 - Combustible Decorations

Title Combustible Decorations

Type Standard

CFR NFPA 101

Regulation Definition

Combustible Decorations

Combustible decorations shall be prohibited unless one of the following is met:

- o Flame retardant or treated with approved fire-retardant coating that is listed and labeled for product.
- o Decorations meet NFPA 701.
- o Decorations exhibit heat release less than 100 kilowatts in accordance with NFPA 289.
- o Decorations, such as photographs, paintings and other art are attached to the walls, ceilings and non-fire-rated doors in accordance with 18.7.5.6(4) or 19.7.5.6(4).
- o The decorations in existing occupancies are in such limited quantities that a hazard of fire development or spread is not present.

18.7.5.6

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FED - K0754 - Soiled Linen and Trash Containers

Title Soiled Linen and Trash Containers

Type Standard

CFR NFPA 101

Regulation Definition

Soiled Linen and Trash Containers

Soiled linen or trash collection receptacles shall not exceed 32 gallons in capacity. The average density of container capacity in a room or space shall not exceed 0.5 gallons/square feet. A total container capacity of 32 gallons shall not be exceeded within any 64 square feet area. Mobile soiled linen or trash collection receptacles with capacities greater than 32 gallons shall be located in a room protected as a hazardous area when not attended.

Containers used solely for recycling are permitted to be excluded from the above requirements where each container is less than or equal to 96 gallons unless attended, and containers for combustibles are labeled and listed as meeting FM Approval Standard 6921 or equivalent.

18.7.5.7, 19.7.5.7

Interpretive Guideline

FED - K0761 - Maintenance, Inspection & Testing - Doors

Title Maintenance, Inspection & Testing - Doors

Type Standard

CFR NFPA 101

Regulation Definition

Maintenance, Inspection & Testing - Doors

Fire doors assemblies are inspected and tested annually in

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accordance with NFPA 80, Standard for Fire Doors and Other Opening Protectives.

Non-rated doors, including corridor doors to patient rooms and smoke barrier doors, are routinely inspected as part of the facility maintenance program.

Individuals performing the door inspections and testing possess knowledge, training or experience that demonstrates ability.

Written records of inspection and testing are maintained and are available for review.

18.7.6, 8.3.3.1 (LSC)

5.2, 5.2.3 (NFPA 80)

FED - K0771 - Engineer Smoke Control Systems

Title Engineer Smoke Control Systems

Type Standard

CFR NFPA 101

Regulation Definition

Engineer Smoke Control Systems
2012 NEW

When installed, engineered smoke control systems are tested in accordance with NFPA 92, Standard for Smoke Control Systems. Test documentation is maintained on the premises.

18.7.7

Interpretive Guideline

FED - K0781 - Portable Space Heaters

Title Portable Space Heaters

Type Standard

CFR NFPA 101

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Regulation Definition

Interpretive Guideline

Portable Space Heaters

Portable space heating devices shall be prohibited in all health care occupancies, except, unless used in nonsleeping staff and employee areas where the heating elements do not exceed 212 degrees Fahrenheit (100 degrees Celsius).

18.7.8, 19.7.8

FED - K0791 - Construction, Repair, and Improvement Operati

Title Construction, Repair, and Improvement Operati

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Construction, Repair, and Improvement Operations

Construction, repair, and improvement operations shall comply with 4.6.10. Any means of egress in any area undergoing construction, repair, or improvements shall be inspected daily to ensure its ability to be used instantly in case of emergency and compliance with NFPA 241.

18.7.9, 19.7.9, 4.6.10, 7.1.10.1

FED - K0900 - Health Care Facilities Code - Other

Title Health Care Facilities Code - Other

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Health Care Facilities Code - Other

List in the REMARKS section any NFPA 99 requirements

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(excluding Chapter 7, 8, 12, and 13) that are not addressed by the provided K-Tags, but are deficient. This information, along with the applicable Health Care Facilities Code or NFPA standard citation, should be included on Form CMS-2567.

FED - K0901 - Fundamentals - Building System Categories

Title Fundamentals - Building System Categories

Type Standard

CFR NFPA 101

Regulation Definition

Fundamentals - Building System Categories
Building systems are designed to meet Category 1 through 4 requirements as detailed in NFPA 99. Categories are determined by a formal and documented risk assessment procedure performed by qualified personnel.
Chapter 4 (NFPA 99)

Interpretive Guideline

FED - K0902 - Gas and Vacuum Piped Systems - Other

Title Gas and Vacuum Piped Systems - Other

Type Standard

CFR NFPA 101

Regulation Definition

Gas and Vacuum Piped Systems - Other
List in the REMARKS section any NFPA 99 Chapter 5 Gas and Vacuum Systems requirements that are not addressed by the provided K-Tags, but are deficient. This information, along with the applicable Life Safety Code or NFPA standard citation, should be included on Form CMS-2567.
Chapter 5 (NFPA 99)

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FED - K0903 - Gas and Vacuum Piped Systems - Categories

Title Gas and Vacuum Piped Systems - Categories

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Gas and Vacuum Piped Systems - Categories

Medical gas, medical air, surgical vacuum, WAGD, and supply air systems are designated:

o Category 1 - Systems in which failure is likely to cause major injury or death.

o Category 2 - Systems in which failure is likely to cause minor injury.

o Category 3 - Systems in which failure is not likely to cause injury, but can cause discomfort.

Deep sedation and general anesthesia are not to be administered using a Category 3 medical gas system.

5.1.1.1, 5.2.1, 5.3.1.1, 5.3.1.5 (NFPA 99)

FED - K0904 - Gas and Vacuum Piped Systems - Warning System

Title Gas and Vacuum Piped Systems - Warning System

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Gas and Vacuum Piped Systems - Warning Systems

All master, area, and local alarm systems used for medical gas and vacuum systems comply with appropriate Category warning system requirements, as applicable.

5.1.9, 5.2.9, 5.3.6.2.2 (NFPA 99)

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FED - K0905 - Gas and Vacuum Piped Systems - Central Supply

Title Gas and Vacuum Piped Systems - Central Supply

Type Standard

CFR NFPA 101

Regulation Definition

Gas and Vacuum Piped Systems - Central Supply System
Identification and Labeling

Containers, cylinders and tanks are designed, fabricated, tested, and marked in accordance with 5.1.3.1.1 through 5.1.3.1.7. Locations containing only oxygen or medical air have doors labeled with "Medical Gases, NO Smoking or Open Flame." Locations containing other gases have doors labeled "Positive Pressure Gases, NO Smoking or Open Flame, Room May Have Insufficient Oxygen, Open Door and Allow Room to Ventilate Before Opening."
5.1.3.1, 5.2.3.1, 5.3.10 (NFPA 99)

Interpretive Guideline

FED - K0906 - Gas and Vacuum Piped Systems - Central Supply

Title Gas and Vacuum Piped Systems - Central Supply

Type Standard

CFR NFPA 101

Regulation Definition

Gas and Vacuum Piped Systems - Central Supply System
Operations

Adaptors or conversion fittings are prohibited. Cylinders are handled in accordance with 11.6.2. Only cylinders, reusable shipping containers, and their accessories are stored in rooms containing central supply systems or cylinders. No flammable

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materials are stored with cylinders. Cryogenic liquid storage units intended to supply the facility are not used to transfill. Cylinders are kept away from sources of heat. Valve protection caps are secured in place, if supplied, unless cylinder is in use. Cylinders are not stored in tightly closed spaces. Cylinders in use and storage are prevented from exceeding 130 degrees Fahrenheit, and nitrous oxide and carbon dioxide cylinders are prevented from reaching temperatures lower than manufacture recommendations or 20 degrees Fahrenheit. Full or empty cylinders, when not connected, are stored in locations complying with 5.1.3.3.2 through 5.1.3.3.3, and are not stored in enclosures containing motor-driven machinery, unless for instrument air reserve headers.

5.1.3.2, 5.1.3.3.17, 5.1.3.3.1.8, 5.1.3.3.4, 5.2.3.2, 5.2.3.3, 5.3.6.20.4, 5.6.20.5, 5.3.6.20.7, 5.3.6.20.8, 5.3.6.20.9 (NFPA 99)

FED - K0907 - Gas and Vacuum Piped Systems - Maintenance Pr

Title Gas and Vacuum Piped Systems - Maintenance Pr

Type Standard

CFR NFPA 101

Regulation Definition

Gas and Vacuum Piped Systems - Maintenance Program
Medical gas, vacuum, WAGD, or support gas systems have documented maintenance programs. The program includes an inventory of all source systems, control valves, alarms, manufactured assemblies, and outlets. Inspection and maintenance schedules are established through risk assessment considering manufacturer recommendations. Inspection procedures and testing methods are established through risk assessment. Persons maintaining systems are qualified as demonstrated by training and certification or credentialing to

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the requirements of AASE 6030 or 6040.
5.1.14.2.1, 5.1.14.2.2, 5.1.15, 5.2.14, 5.3.13.4.2 (NFPA 99)

FED - K0908 - Gas and Vacuum Piped Systems - Inspection and

Title Gas and Vacuum Piped Systems - Inspection and

Type Standard

CFR NFPA 101

Regulation Definition

Gas and Vacuum Piped Systems - Inspection and Testing
Operations
The gas and vacuum systems are inspected and tested as part
of a maintenance program and include the required elements.
Records of the inspections and testing are maintained as
required.
5.1.14.2.3, B.5.2, 5.2.13, 5.3.13, 5.3.13.4 (NFPA 99)

Interpretive Guideline

FED - K0909 - Gas and Vacuum Piped Systems - Information an

Title Gas and Vacuum Piped Systems - Information an

Type Standard

CFR NFPA 101

Regulation Definition

Gas and Vacuum Piped Systems - Information and Warning
Signs
Piping is labeled by stencil or adhesive markers identifying the
gas or vacuum system, including the name of system or
chemical symbol, color code (Table 5.1.11), and operating
pressure if other than standard. Labels are at intervals not
more than 20 feet, are in every room, at both sides of wall
penetrations, and on every story traversed by riser. Piping is

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not painted. Shutoff valves are identified with the name or chemical symbol of the gas or vacuum system, room or area served, and caution to not use the valve except in emergency. 5.1.14.3, 5.1.11.1, 5.1.11.2, 5.2.11, 5.3.13.3, 5.3.11 (NFPA 99)

FED - K0910 - Gas and Vacuum Piped Systems - Modifications

Title Gas and Vacuum Piped Systems - Modifications

Type Standard

CFR NFPA 101

Regulation Definition

Gas and Vacuum Piped Systems - Modifications

Whenever modifications are made that breach the pipeline, any necessary installer and verification test specified in 5.1.2 is conducted on the downstream portion of the medical gas piping system. Permanent records of all tests required by system verification tests are maintained.

5.1.14.4.1, 5.1.14.4.6, 5.2.13, 5.3.13.4.3 (NFPA 99)

Interpretive Guideline

FED - K0911 - Electrical Systems - Other

Title Electrical Systems - Other

Type Standard

CFR NFPA 101

Regulation Definition

Electrical Systems - Other

List in the REMARKS section any NFPA 99 Chapter 6 Electrical Systems requirements that are not addressed by the provided K-Tags, but are deficient. This information, along with the applicable Life Safety Code or NFPA standard

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citation, should be included on Form CMS-2567.
Chapter 6 (NFPA 99)

FED - K0912 - Electrical Systems - Receptacles

Title Electrical Systems - Receptacles

Type Standard

CFR NFPA 101

Regulation Definition

Electrical Systems - Receptacles

Power receptacles have at least one, separate, highly dependable grounding pole capable of maintaining low-contact resistance with its mating plug. In pediatric locations, receptacles in patient rooms, bathrooms, play rooms, and activity rooms, other than nurseries, are listed tamper-resistant or employ a listed cover.

If used in patient care room, ground-fault circuit interrupters (GFCI) are listed.

6.3.2.2.6.2 (F), 6.3.2.2.4.2 (NFPA 99)

Interpretive Guideline

FED - K0913 - Electrical Systems - Wet Procedure Locations

Title Electrical Systems - Wet Procedure Locations

Type Standard

CFR NFPA 101

Regulation Definition

Electrical Systems - Wet Procedure Locations

Operating rooms are considered wet procedure locations, unless otherwise determined by a risk assessment conducted by the facility governing body. Operating rooms defined as wet locations are protected by either isolated power or

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ground-fault circuit interrupters. A written record of the risk assessment is maintained and available for inspection.

6.3.2.2.8.4, 6.3.2.2.8.7, 6.4.4.2

FED - K0914 - Electrical Systems - Maintenance and Testing

Title Electrical Systems - Maintenance and Testing

Type Standard

CFR NFPA 101

Regulation Definition

Electrical Systems - Maintenance and Testing

Hospital-grade receptacles at patient bed locations and where deep sedation or general anesthesia is administered, are tested after initial installation, replacement or servicing. Additional testing is performed at intervals defined by documented performance data. Receptacles not listed as hospital-grade at these locations are tested at intervals not exceeding 12 months.

Line isolation monitors (LIM), if installed, are tested at intervals of less than or equal to one month by actuating the LIM test switch per 6.3.2.6.3.6, which activates both visual and audible alarm. For LIM circuits with automated self-testing, this manual test is performed at intervals less than or equal to 12 months. LIM circuits are tested per 6.3.3.3.2 after any repair or renovation to the electric distribution system. Records are maintained of required tests and associated repairs or modifications, containing date, room or area tested, and results.

6.3.4 (NFPA 99)

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FED - K0915 - Electrical Systems - Essential Electric Syste

Title Electrical Systems - Essential Electric Syste

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Electrical Systems - Essential Electric System Categories

*Critical care rooms (Category 1) in which electrical system failure is likely to cause major injury or death of patients, including all rooms where electric life support equipment is required, are served by a Type 1 EES.

*General care rooms (Category 2) in which electrical system failure is likely to cause minor injury to patients (Category 2) are served by a Type 1 or Type 2 EES.

*Basic care rooms (Category 3) in which electrical system failure is not likely to cause injury to patients and rooms other than patient care rooms are not required to be served by an EES. Type 3 EES life safety branch has an alternate source of power that will be effective for 1-1/2 hours.

3.3.138, 6.3.2.2.10, 6.6.2.2.2, 6.6.3.1.1 (NFPA 99), TIA 12-3

FED - K0916 - Electrical Systems - Essential Electric Syste

Title Electrical Systems - Essential Electric Syste

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Electrical Systems - Essential Electric System Alarm
Annunciator

A remote annunciator that is storage battery powered is

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provided to operate outside of the generating room in a location readily observed by operating personnel. The annunciator is hard-wired to indicate alarm conditions of the emergency power source. A centralized computer system (e.g., building information system) is not to be substituted for the alarm annunciator.

6.4.1.1.17, 6.4.1.1.17.5 (NFPA 99)

FED - K0917 - Electrical Systems - Essential Electric Syste

Title Electrical Systems - Essential Electric Syste

Type Standard

CFR NFPA 101

Regulation Definition

Electrical Systems - Essential Electric System Receptacles
Electrical receptacles or cover plates supplied from the life safety and critical branches have a distinctive color or marking.

6.4.2.2.6, 6.5.2.2.4.2, 6.6.2.2.3.2 (NFPA 99)

Interpretive Guideline

FED - K0918 - Electrical Systems - Essential Electric Syste

Title Electrical Systems - Essential Electric Syste

Type Standard

CFR NFPA 101

Regulation Definition

Electrical Systems - Essential Electric System Maintenance and Testing

The generator or other alternate power source and associated equipment is capable of supplying service within 10 seconds. If the 10-second criterion is not met during the monthly test, a

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process shall be provided to annually confirm this capability for the life safety and critical branches. Maintenance and testing of the generator and transfer switches are performed in accordance with NFPA 110.

Generator sets are inspected weekly, exercised under load 30 minutes 12 times a year in 20-40 day intervals, and exercised once every 36 months for 4 continuous hours. Scheduled test under load conditions include a complete simulated cold start and automatic or manual transfer of all EES loads, and are conducted by competent personnel. Maintenance and testing of stored energy power sources (Type 3 EES) are in accordance with NFPA 111. Main and feeder circuit breakers are inspected annually, and a program for periodically exercising the components is established according to manufacturer requirements. Written records of maintenance and testing are maintained and readily available. EES electrical panels and circuits are marked, readily identifiable, and separate from normal power circuits. Minimizing the possibility of damage of the emergency power source is a design consideration for new installations.

6.4.4, 6.5.4, 6.6.4 (NFPA 99), NFPA 110, NFPA 111, 700.10 (NFPA 70)

FED - K0919 - Electrical Equipment - Other

Title Electrical Equipment - Other

Type Standard

CFR NFPA 101

Regulation Definition

Electrical Equipment - Other

List in the REMARKS section any NFPA 99 Chapter 10, Electrical Equipment, requirements that are not addressed by the provided K-Tags, but are deficient. This information, along with the applicable Life Safety Code or NFPA standard

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citation, should be included on Form CMS-2567.
Chapter 10 (NFPA 99)

FED - K0920 - Electrical Equipment - Power Cords and Extens

Title Electrical Equipment - Power Cords and Extens

Type Standard

CFR NFPA 101

Regulation Definition

Electrical Equipment - Power Cords and Extension Cords
Power strips in a patient care vicinity are only used for components of movable patient-care-related electrical equipment (PCREE) assemblies that have been assembled by qualified personnel and meet the conditions of 10.2.3.6. Power strips in the patient care vicinity may not be used for non-PCREE (e.g., personal electronics), except in long-term care resident rooms that do not use PCREE. Power strips for PCREE meet UL 1363A or UL 60601-1. Power strips for non-PCREE in the patient care rooms (outside of vicinity) meet UL 1363. In non-patient care rooms, power strips meet other UL standards. All power strips are used with general precautions. Extension cords are not used as a substitute for fixed wiring of a structure. Extension cords used temporarily are removed immediately upon completion of the purpose for which it was installed and meets the conditions of 10.2.4. 10.2.3.6 (NFPA 99), 10.2.4 (NFPA 99), 400-8 (NFPA 70), 590.3(D) (NFPA 70), TIA 12-5

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FED - K0921 - Electrical Equipment - Testing and Maintenance

Title Electrical Equipment - Testing and Maintenance

Type Standard

CFR NFPA 101

Regulation Definition

Electrical Equipment - Testing and Maintenance Requirements
The physical integrity, resistance, leakage current, and touch current tests for fixed and portable patient-care related electrical equipment (PCREE) is performed as required in 10.3. Testing intervals are established with policies and protocols. All PCREE used in patient care rooms is tested in accordance with 10.3.5.4 or 10.3.6 before being put into service and after any repair or modification. Any system consisting of several electrical appliances demonstrates compliance with NFPA 99 as a complete system. Service manuals, instructions, and procedures provided by the manufacturer include information as required by 10.5.3.1.1 and are considered in the development of a program for electrical equipment maintenance. Electrical equipment instructions and maintenance manuals are readily available, and safety labels and condensed operating instructions on the appliance are legible. A record of electrical equipment tests, repairs, and modifications is maintained for a period of time to demonstrate compliance in accordance with the facility's policy. Personnel responsible for the testing, maintenance and use of electrical appliances receive continuous training.
10.3, 10.5.2.1, 10.5.2.1.2, 10.5.2.5, 10.5.3, 10.5.6, 10.5.8

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FED - K0922 - Gas Equipment - Other

Title Gas Equipment - Other

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Gas Equipment - Other

List in the REMARKS section any NFPA 99 Chapter 11 Gas Equipment requirements that are not addressed by the provided K-Tags, but are deficient. This information, along with the applicable Life Safety Code or NFPA standard citation, should be included on Form CMS-2567. Chapter 11 (NFPA 99)

FED - K0923 - Gas Equipment - Cylinder and Container Storage

Title Gas Equipment - Cylinder and Container Storage

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Gas Equipment - Cylinder and Container Storage

Greater than or equal to 3,000 cubic feet

Storage locations are designed, constructed, and ventilated in accordance with 5.1.3.3.2 and 5.1.3.3.3.

>300 but <3,000 cubic feet

Storage locations are outdoors in an enclosure or within an enclosed interior space of non- or limited- combustible construction, with door (or gates outdoors) that can be secured. Oxidizing gases are not stored with flammables, and are separated from combustibles by 20 feet (5 feet if

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sprinklered) or enclosed in a cabinet of noncombustible construction having a minimum 1/2 hr. fire protection rating.

Less than or equal to 300 cubic feet

In a single smoke compartment, individual cylinders available for immediate use in patient care areas with an aggregate volume of less than or equal to 300 cubic feet are not required to be stored in an enclosure. Cylinders must be handled with precautions as specified in 11.6.2.

A precautionary sign readable from 5 feet is on each door or gate of a cylinder storage room, where the sign includes the wording as a minimum "CAUTION: OXIDIZING GAS(ES) STORED WITHIN NO SMOKING."

Storage is planned so cylinders are used in order of which they are received from the supplier. Empty cylinders are segregated from full cylinders. When facility employs cylinders with integral pressure gauge, a threshold pressure considered empty is established. Empty cylinders are marked to avoid confusion. Cylinders stored in the open are protected from weather.

11.3.1, 11.3.2, 11.3.3, 11.3.4, 11.6.5 (NFPA 99)

FED - K0924 - Gas Equipment - Testing and Maintenance Requi

Title Gas Equipment - Testing and Maintenance Requi

Type Standard

CFR NFPA 101

Regulation Definition

Gas Equipment - Testing and Maintenance Requirements
Anesthesia apparatus are tested at the final path to patient after any adjustment, modification or repair. Before the apparatus is returned to service, each connection is checked to verify proper gas and an oxygen analyzer is used to verify oxygen concentration. Defective equipment is immediately removed from service. Areas designated for servicing of oxygen

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equipment are clean and free of oil, grease, or other flammables. Manufacturer service manuals are used to maintain equipment and a scheduled maintenance program is followed.

11.4.1.3, 11.5.1.3, 11.6.2.5, 11.6.2.6 (NFPA 99)

FED - K0925 - Gas Equipment - Respiratory Therapy Sources

Title Gas Equipment - Respiratory Therapy Sources

Type Standard

CFR NFPA 101

Regulation Definition

Gas Equipment - Respiratory Therapy Sources of Ignition
Smoking materials are removed from patients receiving respiratory therapy. When a nasal cannula is delivering oxygen outside of a patient's room, no sources of ignition are within in the site of intentional expulsion (1 foot). When other oxygen deliver equipment is used or oxygen is delivered inside a patient's room, no sources of ignition are within the area are of administration (15 feet). Solid fuel-burning appliances is not in the area of administration. Nonmedical appliances with hot surfaces or sparking mechanisms are not within oxygen-delivery equipment or site of intentional expulsion.

11.5.1.1, TIA 12-6 (NFPA 99)

Interpretive Guideline

FED - K0926 - Gas Equipment - Qualifications and Training

Title Gas Equipment - Qualifications and Training

Type Standard

CFR NFPA 101

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Regulation Definition

Gas Equipment - Qualifications and Training of Personnel
Personnel concerned with the application, maintenance and handling of medical gases and cylinders are trained on the risk. Facilities provide continuing education, including safety guidelines and usage requirements. Equipment is serviced only by personnel trained in the maintenance and operation of equipment.

11.5.2.1 (NFPA 99)

Interpretive Guideline

FED - K0927 - Gas Equipment - Transfilling Cylinders

Title Gas Equipment - Transfilling Cylinders

Type Standard

CFR NFPA 101

Regulation Definition

Gas Equipment - Transfilling Cylinders
Transfilling of oxygen from one cylinder to another is in accordance with CGA P-2.5, Transfilling of High Pressure Gaseous Oxygen Used for Respiration. Transfilling of any gas from one cylinder to another is prohibited in patient care rooms. Transfilling to liquid oxygen containers or to portable containers over 50 psi comply with conditions under 11.5.2.3.1 (NFPA 99). Transfilling to liquid oxygen containers or to portable containers under 50 psi comply with conditions under 11.5.2.3.2 (NFPA 99).

11.5.2.2 (NFPA 99)

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FED - K0928 - Gas Equipment - Labeling Equipment and Cylind

Title Gas Equipment - Labeling Equipment and Cylind

Type Standard

CFR NFPA 101

Regulation Definition

Interpretive Guideline

Gas Equipment - Labeling Equipment and Cylinders

Equipment listed for use in oxygen-enriched atmospheres are so labeled. Oxygen metering equipment and pressure reducing regulators are labeled "OXYGEN-USE NO OIL."

Flowmeters, pressure reducing regulators, and oxygen-dispensing apparatus are clearly and permanently labeled designating the gases for which they are intended. Oxygen-metering equipment, pressure reducing regulators, humidifiers, and nebulizers are labeled with name of manufacturer or supplier. Cylinders and containers are labeled in accordance with CGA C-7. Color coding is not utilized as the primary method of determining cylinder or container contents. All labeling is durable and withstands cleaning or disinfecting.

11.5.3.1 (NFPA 99)

FED - K0929 - Gas Equipment - Precautions for Handling Oxyg

Title Gas Equipment - Precautions for Handling Oxyg

Type Standard

CFR NFPA 101

Regulation Definition

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Gas Equipment - Precautions for Handling Oxygen Cylinders and Manifolds

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Handling of oxygen cylinders and manifolds is based on CGA G-4, Oxygen. Oxygen cylinders, containers, and associated equipment are protected from contact with oil and grease, from contamination, protected from damage, and handled with care in accordance with precautions provided under 11.6.2.1 through 11.6.2.4 (NFPA 99).
11.6.2 (NFPA 99)

FED - K0930 - Gas Equipment - Liquid Oxygen Equipment

Title Gas Equipment - Liquid Oxygen Equipment

Type Standard

CFR NFPA 101

Regulation Definition

Gas Equipment - Liquid Oxygen Equipment
The storage and use of liquid oxygen in base reservoir containers and portable containers comply with sections 11.7.2 through 11.7.4 (NFPA 99).
11.7 (NFPA 99)

Interpretive Guideline

FED - K0931 - Hyperbaric Facilities

Title Hyperbaric Facilities

Type Standard

CFR NFPA 101

Regulation Definition

Hyperbaric Facilities
All occupancies containing hyperbaric facilities comply with construction, equipment, administration, and maintenance requirements of NFPA 99.
Chapter 14 (NFPA 99)

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FED - K0932 - Features of Fire Protection - Other

Title Features of Fire Protection - Other

Type Standard

CFR NFPA 101

Regulation Definition

Features of Fire Protection - Other
List in the REMARKS section any NFPA 99 Chapter 15
Features of Fire Protection requirements that are not addressed
by the provided K-Tags, but are deficient. This information,
along with the applicable Life Safety Code or NFPA standard
citation, should be included on Form CMS-2567.
Chapter 15 (NFPA 99)

Interpretive Guideline

FED - K0933 - Features of Fire Protection - Fire Loss Preve

Title Features of Fire Protection - Fire Loss Preve

Type Standard

CFR NFPA 101

Regulation Definition

Features of Fire Protection - Fire Loss Prevention in Operating
Rooms
Periodic evaluations are made of hazards that could be
encountered during surgical procedures, and fire prevention
procedures are established. When flammable germicides or
antiseptics are employed during surgeries utilizing
electrosurgery, cautery or lasers:
*packaging is non-flammable.
*applicators are in unit doses.
*Preoperative "time-out" is conducted prior the initiation of

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any surgical procedure to verify:

- o application site is dry prior to draping and use of surgical equipment.

- o pooling of solution has not occurred or has been corrected.

- o solution-soaked materials have been removed from the OR prior to draping and use of surgical devices.

- o policies and procedures are established outlining safety precautions related to the use of flammable germicide or antiseptic use.

Procedures are established for operating room emergencies including alarm activation, evacuation, equipment shutdown, and control operations. Emergency procedures include the control of chemical spills, and extinguishment of drapery, clothing and equipment fires. Training is provided to new OR personnel (including surgeons), continuing education is provided, incidents are reviewed monthly, and procedures are reviewed annually.

15.13 (NFPA 99)

FED - K9999 - FINAL OBSERVATIONS

Title FINAL OBSERVATIONS

Type Memo Tag

CFR

Regulation Definition

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