



How we got here:

- The June 5, 2015 Engineering Newsletter from NCDol OSFM announced that in December of 2014, the NC Building Code Council passed Rule Changes, called D-Items, i.e. amendments.
- Item D-17 updates 75 of the commonly referenced NFPA standards including NFPA 72. (List of all the standards is provided)
- Effective date of the amendment is Jan. 1, 2016.



General Changes

- All parts of code now expanded or changed to move away from fire alarm only notations to include all signaling components so mass notification can be accepted.
 - $\circ\,$ Remove the word 'fire' wherever possible.
- Now we have:
 - National Fire Alarm and Signaling Code
- Even within a chapter where the meaning is the same, sentences and paragraphs have been reordered to be more explicit, to allow for all types of signaling.



- New in 2013
 - Previously listed as 4.5 in 2007 edition with requirements and forms spread throughout standard.
- Goal is to provide central location to find all documentation requirements.
 - Moved forms and requirements from other parts of code.
- Written narrative providing intent and system description was added to minimum required list.



BD5

- 7.3 Design (Layout) Documentation
 - 7.3.4.3 Design documents shall include ambient sound pressure levels and audible design sound pressure levels in accordance with 18.4.1.4.3.
 - 7.3.4.5 The documentation of *acoustically distinguishable spaces (ADS)* shall be in accordance with 18.4.10.
 - 7.3.4.6 Design documents shall specify the rooms and spaces that will have visible notification and those where visible notification will not be provided in accordance with 18.5.2.1.



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BD5 key for engineers Brian Donnelly, 7/21/2015

Slide 8

| BD26 | key for engineers |
|------|---------------------------|
| | Brian Donnelly, 7/21/2015 |





BD9 for AHJ/contractors Brian Donnelly, 7/21/2015

















Chapter 12 - Circuits and Pathways

12.4 - Pathway Survivability

- Level 2
 - Pathway shall consist of one or more of following.
 - 2-hour fire-rated circuit integrity (CI) cable
 - 2-hour fire-rated cable system [electrical circuit protective system(s)]
 - · 2-hour fire-rated enclosure or protected area
 - 2-hour performance alternatives approved by the authority having jurisdiction
- Level 3
 - Pathway consisting of one of the Level 2 types,
 - And installed in buildings fully protected by NFPA 13 automatic sprinkler system.

































- Previously listed as 6.16 in 2007 edition.
- A lot of terminology changed from fire alarm control function to emergency control function.
- > 21.5 Fire Service Access Elevator
 - Where elevators are designated and marked as fire service access elevators, section provides minimum conditions that shall be monitored and displayed.:
- > 21.6 Occupation Evacuation Elevators
 - Provides requirements for use of elevators by building occupants to evacuate:
 - Occupant Controlled

Chapter 21 - Emergency Control Function Interfaces

- 21.3 Elevator Recall for Fire Fighters' Service
 - New Exception:
 - Waterflow switch is permitted to initiate elevator recall upon activation of sprinkler in pit.
 - Waterflow and sprinkler must be installed on a separately valved line dedicated solely for pit.
 - Switch cannot have a timedelay capability.



Chapter 21 - Emergency Control Function Interfaces

> 21.7 (HVAC) Systems

 If CO detection initiates a ventilation response, a fire alarm system smoke control response shall take precedence over CO response.

- > 21.8 Door and Shutter Release
- > 21.9 Electrically Locked Doors
- > 21.10 Exit Marking Audible Notification Systems











































