

# **Changes in NFPA 72-2002**

***Oregon Fire Code Committee***

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## **Administrative Changes**

- **Added three new chapters**
- **Dash replaced by dot**
- **Metric <-> English units**
- **Appendix renamed Annex**
- **Unenforceable language re-worded or removed**
- **Exceptions re-worded as requirements**

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- Three new chapters are added
- The dash (2-3.4.6.1) is replaced with a dot (2.3.4.6.1)
- Metric units are used with English units in parenthesis
- Appendix renamed as Annex
- Unenforceable language re-worded or removed
- Exceptions re-worded as requirements

# Chapter 1 Administration

## NEW CHAPTER

**1.2.4\* ... This Code shall not be interpreted to require a level of fire protection greater than that required by building or fire code ...**

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1.2.4\* This Code shall not be interpreted to require a level of fire protection that is greater than that which would otherwise be required by the applicable building or fire code.

A.1.2.4 Some building and fire codes include requirements that imply NFPA 72 requirements that do not exist. The intent of this paragraph is to make it clear that the protection requirements are derived from the applicable building or fire code, not from NFPA 72.

# **Chapter 1 Administration**

## **1.6 Code Adoption Requirements.**

**This Code shall be administered and enforced by the AHJ designated by the governing authority. (See Annex D for sample wording for enabling legislation.)**

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1.7 Code Adoption Requirements. This Code shall be administered and enforced by the authority having jurisdiction designated by the governing authority. (See Annex D for sample wording for enabling legislation.)

# **Chapter 2**

## **Referenced Publications**

**NEW CHAPTER**

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# **Chapter 3 Definitions**

## **NEW CHAPTER**

### **3.3 General Definitions**

#### **3.3.18 Average Ambient Sound Level.**

**... measured over the period of time that any person is present, or a 24-hour period, whichever time period is the lesser.**

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### 3.3 General Definitions

3.3.18 Average Ambient Sound Level. The root mean square, A-weighted, sound pressure level measured over the period of time that any person is present, or a 24-hour period, whichever time period is the lesser.

# Chapter 4

## Fundamentals of Fire Alarm Systems

### FORMERLY CHAPTER 1

#### 4.4 System Fundamentals

##### 4.4.1.5.3.1

**... Secondary power supply sufficient for 24 hours in a nonalarm condition followed by 5 minutes of alarm notification ...**

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#### 4.4 System Fundamentals

4.4.1.5.3.1 Unless otherwise permitted or required by 4.4.1.5.3.1(A) or 4.4.1.5.3.1(B), the secondary power supply shall have sufficient capacity to operate the fire alarm system under quiescent load (system operating in a nonalarm condition) for a minimum of 24 hours and, at the end of that period, shall be capable of operating all alarm notification appliances used for evacuation or to direct aid to the location of an emergency for 5 minutes.

THE ENTIRE POWER SUPPLY SECTION HAS BEEN RE-WRITTEN. I ASSUME THAT THE 60-HOUR SECONDARY POWER REQUIREMENT FOR REMOTE STATION SYSTEMS WAS DRIVEN BY THE FACT THAT TROUBLE SIGNALS, INCLUDING LOSS OF PRIMARY POWER, WEREN'T NECESSARILY TRANSMITTED TO A CONSTANTLY ATTENDED LOCATION, HOWEVER, NFPA 72 REQUIRES THAT A TROUBLE SIGNAL BE TRANSMITTED TO A REMOTE STATION (SEE NFPA 72-1999 1-5.4.6.2, NFPA 72-1993 1-5.4.6.2, AND NFPA 71-1990 2-4.2.1)



## **Chapter 4**

# **Fundamentals of Fire Alarm Systems**

### **4.4.1.5.3.1 (A)**

**... EVAC secondary power supply sufficient for 24 hours in a nonalarm condition followed by 15 at maximum connected load ...**

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(A) The secondary power supply for emergency voice/alarm communications service shall be capable of operating the system under quiescent load for a minimum of 24 hours and then shall be capable of operating the system during a fire or other emergency condition for a period of 15 minutes at maximum connected load.

THE UNENFORCEABLE LANGUAGE, "TWO HOURS OF OPERATION DURING A FIRE OR OTHER EMERGENCY CONDITION", WAS REMOVED IN FAVOR OF THE ENFORCEABLE 15 MINUTE REQUIREMENT.

## **Chapter 4**

# **Fundamentals of Fire Alarm Systems**

**4.4.1.6.1 ... Secondary power to automatically provide power to protected premises system within 10 seconds, ...**

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4.4.1.6.1 The secondary power supply shall automatically provide power to the protected premises fire alarm system within 10 seconds, whenever the primary power supply fails to provide the minimum voltage required for proper operation.

10 SECONDS VERSUS 30 SECONDS IN 1999.

## **Chapter 4**

### **Fundamentals of Fire Alarm Systems**

**4.4.1.6.3 Required signals shall not be lost, interrupted, or delayed by more than 10 seconds as a result of the primary power failure.**

**4.4.1.8.1\* Marking. Batteries shall be permanently marked with the month and year of manufacture.**

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4.4.1.6.3 Required signals shall not be lost, interrupted, or delayed by more than 10 seconds as a result of the primary power failure.

I INTERPRET THIS AS REQUIRING AT LEAST A MINIMAL BATTERY-SET OR UPS TO BE INSTALLED WITH ALL FIRE ALARM SYSTEMS INCLUDING THOSE THAT ARE PROVIDED POWER BY EMERGENCY STANDBY SYSTEMS.

4.4.1.8.1\* Marking. Batteries shall be permanently marked with the month and year of manufacture.

MARKING IS TO HELP ENSURE THAT BATTERIES ARE REPLACED WITHIN 5 YEARS OF THE DATE OF MANUFACTURE (SEE NFPA 72-2002 TABLE 10.4.3 6(D)1.

A.4.4.1.8.1 Markings for month and year can be applied by the manufacturer or in the field based on the manufacturer's date code.

## **Chapter 4**

### **Fundamentals of Fire Alarm Systems**

**4.4.1.9.3.1 (B) Where survivability of circuits is required by Chapter 6, equal protection shall be provided for power supply circuits.**

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4.4.1.9.3.1

(B) Where survivability of circuits is required by Chapter 6, equal protection shall be provided for power supply circuits.

SURVIVABILITY REQUIREMENTS ASSOCIATED WITH EVAC SERVICE.

## Chapter 4

# Fundamentals of Fire Alarm Systems

**4.4.7.3.3\* Supervising station fire alarm systems shall be arranged to delay transmission of primary power failure signals for a period ranging from 60 to 180 minutes.**

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4.4.7.3.3\* Supervising station fire alarm systems shall be arranged to delay transmission of primary power failure signals for a period ranging from 60 to 180 minutes.

*Exception: Where delay of the signal is prohibited by the authority having jurisdiction, delay of the transmission shall not be required.*

A.4.4.7.3.3 This requirement is intended to prevent all of the supervising station fire alarm systems in a given geographic area from transmitting simultaneous trouble signals (and overwhelming the associated supervising stations) in the event of a widespread power failure.

60 TO 180 MINUTES REPLACES 25-50%.

## **Chapter 4**

# **Fundamentals of Fire Alarm Systems**

### **4.5.2 Completion Documents.**

**4.5.2.1\* ... The preparation of a record of completion, shall be the responsibility of the qualified and experienced person described in 4.3.3 ...**

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4.5.2 Completion Documents.

4.5.2.1\* Preparation. The preparation of a record of completion, Figure 4.5.2.1, shall be the responsibility of the qualified and experienced person described in 4.3.3 and shall be in accordance with 4.5.2.1(A) and 4.5.2.1(B).

THIS REPLACES THE STATEMENT THAT A RECORD OF COMPLETION SHALL BE PREPARED FOR EACH FIRE ALARM SYSTEM.

A.4.5.2.1 The requirements of Chapter 10 should be used to perform the installation wiring and operational acceptance tests required when completing the record of completion.

## **Chapter 4**

# **Fundamentals of Fire Alarm Systems**

### **4.5.2.3 Documentation Required.**

**... Every system shall include, which shall be delivered to the owner ...**

- (1) Owner's manual and installation instructions**
- (2) Record drawings**
- (3) Record copy of the site-specific software for software-based systems**

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4.5.2.3 Documentation Required. Every system shall include the following documentation, which shall be delivered to the owner or the owner's representative upon final acceptance of the system:

- (1)\* An owner's manual and installation instructions covering all system equipment
- (2) Record drawings
- (3) For software-based systems, a record copy of the site-specific software

THE COPY OF SITE-SPECIFIC SOFTWARE IS A NEW REQUIREMENT

## **Chapter 4**

# **Fundamentals of Fire Alarm Systems**

### **4.5.2.4\* Verification of Compliant Installation.**

**Where required, ... the installation shall be certified by a qualified and impartial third-party organization acceptable to the authority having jurisdiction.**

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4.5.2.4\* Verification of Compliant Installation. Where required, compliance of the completed installation with the requirements of this standard, as implemented via the referring code(s), specifications, and/or other criteria applicable to the specific installation, shall be certified by a qualified and impartial third-party organization acceptable to the authority having jurisdiction. PUTTING A FINER POINT ON 3RD PARTY VERIFICATION.

A.4.5.2.4 This section is intended to provide a basis for the authority having jurisdiction to require third-party verification and certification that the authority having jurisdiction and the system owner can rely on to reasonably assure that the fire alarm system installation complies with the applicable requirements.



## **Chapter 4**

# **Fundamentals of Fire Alarm Systems**

### **4.6 Impairments - NEW ARTICLE**

**Certification and placarding moved to Chapter 8, Supervising Station Fire Alarm Systems.**

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#### 4.6 Impairments

THIS IS A NEW SECTION TO BETTER DESCRIBE HOW TO HANDLE SYSTEM IMPAIRMENTS.

CERTIFICATION AND PLACARDING REQUIREMENTS MOVED TO CHAPTER 8, SUPERVISING STATION FIRE ALARM SYSTEMS.

# **Chapter 5**

## **Initiating Devices**

### **FORMERLY CHAPTER 2**

**5.3\* Performance-Based Design.  
Permits an alternative to  
prescriptive requirements.**

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#### 5.3\* Performance-Based Design.

A.5.3 Annex B, Engineering Guide for Automatic Fire Detector Spacing, provides a detailed design guide for the implementation of the performance-based design of fire alarm systems.

5.3.1 Performance-based designs submitted to the authority having jurisdiction for review and approval shall include documentation, in an approved format, of each performance objective and applicable scenario, together with any calculations, modeling, or other technical substantiation used in establishing the proposed design's fire and life safety performance.

5.3.2 The authority having jurisdiction shall determine whether such identified performance objectives are appropriate and have been met.

5.3.3 The authority having jurisdiction shall approve modifications to or variations from the approved design or design basis in advance.

## **Chapter 5 Initiating Devices**

**5.6.2.3 ... Heat detectors marked with their listed operating temperature.**

**5.7.3.2.4(A) ... Solid joists considered equivalent to beams for smoke detector spacing ...**

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5.6.2.3 Marking. Heat-sensing fire detectors shall be marked with their listed operating temperature.

THE REQUIRMENT FOR RESPONSE TIME INDEX HAS BEEN REMOVED.

5.7.3.2.4(A) Solid joists shall be considered equivalent to beams for smoke detector spacing guidelines.

NFPA 72-1999 2-3.4.6.1 DID NOT ADDRESS HIGH JOISTED CEILINGS (MORE THAN 12 FT HIGH).

## **Chapter 5 Initiating Devices**

**5.12.5\* ... Manual fire alarm boxes located throughout the protected area, conspicuous, unobstructed, and accessible.**

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5.12.5\* Manual fire alarm boxes shall be located throughout the protected area so that they are conspicuous, unobstructed, and accessible.

A.5.12.5 Manual fire alarm boxes should be of contrasting color to the background on which they are mounted.

# **Chapter 6**

## **Protected Premises Fire Alarm Systems**

### **FORMERLY CHAPTER 3**

**Software and firmware no longer required to be listed for use with the fire alarm control unit.**

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THE 1999 REQUIREMENT TO USE SOFTWARE AND FIRMWARE LISTED FOR USE WITH THE CONTROL UNIT IS REMOVED.

## Chapter 6

### Protected Premises Fire Alarm Systems

**6.4.2.2.2\* ... Class A circuits shall be installed such that the outgoing and return conductors are routed separately ...**

**REMOVED *Exception: 2-hour fire rated cable assembly ...***

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#### 6.4 System Performance and Integrity

6.4.2.2.2\* All styles of Class A circuits using physical conductors (e.g., metallic, optical fiber) shall be installed such that the outgoing and return conductors, exiting from and returning to the control unit, respectively, are routed separately. The outgoing and return (redundant) circuit conductors shall not be run in the same cable assembly (i.e., multi-conductor cable), enclosure, or raceway.

*Exception: The outgoing and return (redundant) circuit conductors shall be permitted to be run in the same cable assembly, enclosure, or raceway under any of the following conditions ...*

THE EXCEPTION ALLOWING 2-HOUR RATED CABLE ASSEMBLY HAS BEEN REMOVED. A 2-HOUR FIRE RESISTIVE RATING DOES NOT INCLUDE THE MECHANICAL PROTECTION REQUIRED OF CLASS A PHYSICAL CONDUCTORS.

## **Chapter 6**

### **Protected Premises Fire Alarm Systems**

**6.8.2.3 ... The interconnection method of interconnection of control units ...**

**(2) ... Data communications over SLC(s) dedicated to the fire alarm or shared with other systems ...**

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#### 6.8 System Requirements

6.8.2.3 The method of interconnection of control units shall meet the monitoring requirements of 4.4.7 and NFPA 70, National Electrical Code, Article 760, and shall be achieved by the following recognized means:

- (1) Electrical contacts listed for the connected load
- (2) Data communications over signaling line circuit(s) dedicated to the fire alarm or shared with other premises operating systems
- (3) Other listed methods

ITEM #2 PERMITS SIGNALING LINE CIRCUITS TO BE SHARED BY OTHER NON FIRE ALARM SYSTEMS.

## Chapter 6

### Protected Premises Fire Alarm Systems

**6.8.3.2 ... Status of dwelling unit smoke alarms permitted to be displayed at the annunciator ...**

**6.8.6.4.1\* ... The evacuation signal shall be temporal code three ...**

***Exception: ... Where approved by the AHJ, the existing evacuation signaling scheme is permitted ...***

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6.8.3.2 The status of dwelling unit smoke alarms shall be permitted to be displayed at the protected premises control unit and annunciators.

LESS RIGID LANGUAGE CONCERNING MONITORING SMOKE ALARMS INTERCONNECTED WITH PROTECTED PREMISES SYSTEMS.

6.8.6.4.1\* To meet the requirements of 4.4.3.6, the fire alarm signal used to notify building occupants of the need to evacuate (leave the building) shall be in accordance with ANSI S3.41, American National Standard Audible Evacuation Signal.

*Exception: Where approved by the authority having jurisdiction, use of the existing consistent evacuation signaling scheme shall be permitted.*

THE EXCEPTION ALLOWS AHJ'S TO APPROVE ALTERNATIVES TO ANSI S3.41.



## **Chapter 6**

### **Protected Premises Fire Alarm Systems**

**6.9.4.3 ... All circuits necessary for the operation of the notification appliances shall be protected ...**

**(3)\* ... Performance alternatives ...**

**DELETED The use of stairwells**

**ADDED Alternative methods**

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6.9.4.3 All circuits necessary for the operation of the notification appliances shall be protected until they enter the evacuation signaling zone that they serve. Any of the following methods shall be considered acceptable as meeting the requirements of this subsection:

- (1) A 2-hour rated cable or cable system
- (2) A 2-hour rated enclosure
- (3)\* Performance alternatives approved by authority having jurisdiction

ITEM #3, LANGUAGE ALLOWING THE USE OF CERTAIN STAIRWELLS HAS BEEN REPLACED.

## **Chapter 6**

### **Protected Premises Fire Alarm Systems**

#### **6.9.7 Speakers.**

**DELETED The requirement for a speaker in the elevator car.**

#### **6.9.7.3 ... Speakers in enclosed stairways where required ...**

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#### 6.9.7 Speakers.

6.9.7.1 Speakers and their enclosures shall be installed in accordance with Chapter 7.

6.9.7.2\* At least two speakers shall be located in each notification zone of the building.

THE REQUIREMENT TO INSTALL A SPEAKER IN THE ELEVATOR CAR HAS BEEN DELETED.

6.9.7.3 Where required, each enclosed stairway shall be equipped with speakers connected to a separate notification zone for manual selective paging only.

SPEAKERS TO BE INSTALLED IN STAIRWAYS ONLY WHERE REQUIRED.

## **Chapter 6**

### **Protected Premises Fire Alarm Systems**

#### **6.15 Protected Premises Fire Safety Functions**

**6.15.2.1 ... The performance of automatic fire safety functions shall not interfere with power for lighting or for operating elevators**

**...**

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#### 6.15 Protected Premises Fire Safety Functions

6.15.2.1 Fire safety functions shall be permitted to be performed automatically. The performance of automatic fire safety functions shall not interfere with power for lighting or for operating elevators. The performance of automatic fire safety control functions shall not preclude the combination of fire alarm services with other services requiring monitoring of operations.

DOES THIS PREVENT THE INSTALLATION OF ELEVATOR SHUTDOWN?

## **Chapter 6**

### **Protected Premises Fire Alarm Systems**

**6.15.4.5 Initiating devices described in 6.15.4.2 and 6.15.4.3 shall be monitored for integrity ...**

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6.15.4.5 The initiating devices described in 6.15.4.2 and 6.15.4.3 shall be monitored for integrity by the control unit required in 6.15.3.1 and 6.15.3.2.

HEAT DETECTORS, SMOKE DETECTORS, AND WATERFLOW SWITCHES USED TO MEET ANSI A17.1.

## **Chapter 6**

### **Protected Premises Fire Alarm Systems**

**6.15.5.5 Where interconnected as a combination system, a Firefighter's Smoke Control Station (FSCS) shall be provided**

...

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6.15.5.5 Where interconnected as a combination system, a Firefighter's Smoke Control Station (FSCS) shall be provided to perform manual control over the automatic operation of the system's smoke control strategy.

A NEW ARTICLE REQUIRING A FSCS TO OVERRIDE AUTOMATIC FUNCTIONS.

6.15.5.6 Where interconnected as a combination system, the smoke control system programming shall be designed such that normal HVAC operation or changes do not prevent the intended performance of the smoke control strategy.

# **Chapter 7**

## **Notification Appliances**

### **FORMERLY CHAPTER 4**

#### **7.4 Audible Characteristics**

**DELETED Requirement to provide visible notification in mechanical equipment rooms.**

**DELETED 75dBA – 120dBA equip.**

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#### 7.4 Audible Characteristics

DELETED REQUIREMENT FOR VISIBLE APPLIANCE IN MECHANICAL EQUIPMENT ROOMS.

DELETED 75dBA MINIMUM 120dBA MAXIMUM EQUIPMENT REQUIREMENT.

## **Chapter 7**

### **Notification Appliances**

**7.4.2.2 Where approved by the AHJ, the requirements for audible signaling permitted to be reduced or eliminated when visible signaling is provided ...**

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7.4.2.2 Where approved by the authority having jurisdiction or other governing codes or standards, the requirements for audible signaling shall be permitted to be reduced or eliminated when visible signaling is provided in accordance with Section 7.5.

NEW ARTICLE ALLOWING THE AHJ TO PERMIT THE REDUCTION OR ELIMINATION OF AUDIBLE DEVICES IN THE PUBLIC MODE.

## **Chapter 7**

### **Notification Appliances**

#### **7.4.5\* Narrow Band Tone Signaling for Exceeding Masked Thresholds.**

##### **7.4.5.1 ... Audible fire alarm tone signaling permitted to comply with masked threshold requirements in lieu of A-weighted signaling ...**

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7.4.5\* Narrow Band Tone Signaling for Exceeding Masked Thresholds.

7.4.5.1 Masked Threshold Allowance. Audible fire alarm tone signaling shall be permitted to comply with the masked threshold requirements in this subsection in lieu of the A-weighted signaling requirements in 7.4.2 and 7.4.3.

NEW ARTICLE ALLOWING AN ALTERNATIVE TO PRESCRIPTIVE REQUIREMENTS.



## **Chapter 7**

### **Notification Appliances**

**7.4.6.4 Appliances that are an integral part of a smoke detector, smoke alarm, or other initiating device shall be located in accordance with the requirements for that device.**

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7.4.6.4 Appliances that are an integral part of a smoke detector, smoke alarm, or other initiating device shall be located in accordance with the requirements for that device.

"THAT DEVICE" BEING THE INITIATING DEVICE.

## **Chapter 7**

# **Notification Appliances**

### **7.5 Visible Characteristics - Public Mode**

**DELETED** The requirement to locate sufficient numbers of visible appliances so that the operating effect is seen by the intended viewer.

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#### 7.5 Visible Characteristics - Public Mode

DELETED THE REQUIREMENT TO LOCATE SUFFICIENT VISIBLE APPLIANCES TO THAT THE OPERATING EFFECT IS SEEN BY THE INTENDED VIEWER, WHICH CONFLICTED WITH THE ALLOWANCE FOR DIRECT AND INDIRECT METHODS OF VISIBLE NOTIFICATION.

## **Chapter 7**

# **Notification Appliances**

### **Table 7.5.4.1.1(a) Room Spacing for Wall-Mounted Visible Appliances**

- Added more room sizes.**
- 50' X 50' room size error ...**

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Table 7.5.4.1.1(a) Room Spacing for Wall-Mounted Visible Appliances

ADDED MORE ROOM SIZES. THERE APPEARS TO BE AN ERROR FOR THE 50' X 50' ROOM. I ASSUME 6 SHOULD READ 60.

## **Chapter 7**

### **Notification Appliances**

**7.5.4.1.2 Visible notification appliances shall be installed in accordance with Table 7.5.4.1.1(a), using one of the following:**

**REMOVED The option of using more than two appliances in rooms 80' X 80' or larger.**

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7.5.4.1.2 Visible notification appliances shall be installed in accordance with Table 7.5.4.1.1(a), using one of the following:

- (1) A single visible notification appliance
- (2) Two visible notification appliances located on opposite walls
- (3)\* More than two visible notification appliances in the same room or adjacent space within the field of view that flash in synchronization

REMOVED THE OPTION OF HAVING MORE THAN TWO APPLIANCES IN ROOMS 80' X 80' OR LARGER ...

## **Chapter 7**

### **Notification Appliances**

#### **7.5.4.2\* Spacing in Corridors.**

**REMOVED Corridor spacing table.**

**7.5.4.2.4 The installation of visible notification appliances in corridors shall be in accordance with the requirements of either 7.5.4.1 or 7.5.4.2.**

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7.5.4.2\* Spacing in Corridors.

REMOVED THE TABLE FOR CORRIDOR SPACING.

7.5.4.2.4 The installation of visible notification appliances in corridors 6.1 m (20 ft) or less in width shall be in accordance with the requirements of either 7.5.4.1 or 7.5.4.2.

ALLOWANCE IS MADE FOR VISIBLE APPLIANCES REQUIRED IN CORRIDORS TO COMPLY WITH CORRIDOR SPACING REQUIREMENTS OR ROOM SPACING REQUIREMENTS.

## **Chapter 7**

# **Notification Appliances**

### **7.5.4.3\* Performance-Based Alternative.**

**7.5.4.3.1 Any design that provides a minimum of 0.4036 lumens/m<sup>2</sup> (0.0375 lumens/ft<sup>2</sup>) of illumination at any point within the covered area ...**

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7.5.4.3\* Performance-Based Alternative.

7.5.4.3.1 Any design that provides a minimum of 0.4036 lumens/m<sup>2</sup> (0.0375 lumens/ft<sup>2</sup>) of illumination at any point within the covered area as calculated for the maximum distance from the nearest visual notification appliance to any point within the covered area shall be permitted in lieu of the requirements of 7.5.4 excluding 7.5.4.4.

ALTERNATIVE METHOD.

## **Chapter 8**

### **Supervising Station Fire Alarm Systems**

#### **8.2 Fire Alarm Systems for Central Station Service**

##### **8.2.7.1.2 ... Central station shall ...**

**(2) ... Dispatch a runner or technician to arrive within 2 hours after receipt of a signal ...**

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#### 8.2 Fire Alarm Systems for Central Station Service

8.2.7.1.2 The central station shall perform the following actions:

(2) Dispatch a runner or technician to the protected premises to arrive within 2 hours after receipt of a signal if equipment needs to be manually reset by the prime contractor

RUNNER DISPATCH TIME INCREASED FROM 1 HOUR TO 2 HOURS.

8.2.7.3\* Supervisory Signals. Upon receipt of a supervisory signal from a sprinkler system, other fire suppression system(s), or other equipment, the central station shall perform the following actions:

(2) Dispatch a runner or maintenance person to arrive within 2 hours to investigate

RUNNER DISPATCH TIME INCREASED FROM 1 HOUR TO 2 HOURS.

## **Chapter 8**

### **Supervising Station Fire Alarm Systems**

#### **8.5 Communications Methods for Supervising Station Fire Alarm Systems**

**8.5.3.3.4\* ... Unless accepted by the AHJ, McCulloh systems shall not be installed after June 30, 2003**

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8.5 Communications Methods for Supervising Station Fire Alarm Systems

8.5.3.3.4\* Unless accepted by the authority having jurisdiction, McCulloh systems shall not be permitted to be installed after June 30, 2003.

PROHIBITS THE INSTALLATION OF MCCULLOH SYSTEMS.



# **Chapter 9 Public Fire Reporting Systems**

**FORMERLY CHAPTER 6**

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# **Chapter 10**

## **Inspection, Testing, & Maintenance**

### **FORMERLY CHAPTER 7**

**10.1.2 ... inspection, testing, and maintenance of single- and multiple-station smoke and heat alarms and household fire alarm systems shall comply with the requirements of this chapter ....**

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#### 10.1 Application

10.1.2 The inspection, testing, and maintenance of single- and multiple-station smoke and heat alarms and household fire alarm systems shall comply with the requirements of this chapter.

INSPECTION, TESTING, AND MAINTENANCE REQUIREMENTS OF ONE- AND TWO-FAMILY DWELLING SYSTEMS AND EQUIPMENT MOVES INTO THIS CHAPTER.

# Chapter 10

## Inspection, Testing, & Maintenance

### 10.4 Testing

#### Table 10.4.2.2 Test Methods

#### 11. Conductors — Metallic

**(e) Supervision ... One connection shall be opened at not less than 10 percent of the initiating devices, notification appliances and controlled devices on every IDC, NAC, AND SLC ...**

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### 10.4 Testing

#### Table 10.4.2.2 Test Methods

#### 11. Conductors — Metallic

#### (e) Supervision

Introduction of a fault in any circuit monitored for integrity shall result in a trouble indication at the control unit. One connection shall be opened at not less than 10 percent of the initiating devices, notification appliances and controlled devices on every initiating device circuit, notification appliance circuit, and signaling line circuit.

NEW REQUIREMENT

## **Chapter 10**

### **Inspection, Testing, & Maintenance**

#### **Table 10.4.3 Testing Frequencies**

##### **5. Batteries — Central Station Facilities and Fire Alarm Systems**

###### **(c) Sealed lead-acid type**

**1. Charger test (replace battery within 5 years after manufacture or more frequently as needed.)**

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Table 10.4.3 Testing Frequencies

5. Batteries — Central Station Facilities and Fire Alarm Systems

(c) Sealed lead-acid type

1. Charger test (replace battery within 5 years after manufacture or more frequently as needed.)

CHANGES FROM 4 YEARS TO 5 YEARS AFTER THE DATE OF MANUFACTURE.

## **Chapter 10**

### **Inspection, Testing, & Maintenance**

**10.4.4 ... Homeowners shall inspect and test smoke alarms and all connected appliances at least monthly ...**

**10.4.5.1 ... Household fire alarm systems shall be tested by a qualified service technician at least every 3 years according to the methods of Table 10.4.2.2.**

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10.4.4 Single- and Multiple-Station Smoke Alarms. Homeowners shall inspect and test smoke alarms and all connected appliances in accordance with the manufacturer's instructions at least monthly.

10.4.5 Household Fire Alarm Systems.

10.4.5.1 Testing. Household fire alarm systems shall be tested by a qualified service technician at least every 3 years according to the methods of Table 10.4.2.2.

## **Chapter 10**

### **Inspection, Testing, & Maintenance**

**10.4.6 ... Unless otherwise recommended by the manufacturer, single- and multiple-station smoke alarms installed in one- and two-family dwellings shall be replaced when they fail to respond to operability tests, but shall not remain in service longer than 10 years from the date of manufacture.**

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10.4.6 Replacement of Smoke Alarms in One- and Two-Family Dwellings. Unless otherwise recommended by the manufacturer, single- and multiple-station smoke alarms installed in one- and two-family dwellings shall be replaced when they fail to respond to operability tests, but shall not remain in service longer than 10 years from the date of manufacture.

10.4.7 Battery Replacement. Where batteries are used as a source of energy, they shall be replaced in accordance with the recommendations of the alarm equipment manufacturer.

CLARIFICATION OF REQUIREMENTS FOR ONE- AND TWO-FAMILY DWELLINGS.

# **Chapter 11**

## **Household Fire Warning**

### **FORMERLY CHAPTER 8**

**A return to the prescriptive format of NFPA 72-1996 while retaining the occupancy requirement language of NFPA 101.**

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## **Annex A-F**

**A – Explanatory Material**

**B – Engineering Guide for Automatic Fire  
Detector Spacing**

**C – Wiring Diagrams and Guide for Testing  
Fire Alarm Circuits**

**D – Sample Ordinance Adopting NFPA 72**

**E – Informational References**

**F – Cross Reference Tables**

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Annex A – Explanatory Material

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Circuits

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Annex E – Informational References

Annex F – Cross Reference Tables



# **Changes in NFPA 72-2002**

***Oregon Fire Code Committee  
November 25, 2003***

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