



- (4) Each receiver/control shall **automatically repeat alarm transmission** at intervals not exceeding **60 seconds** or until confirmation that the output appliance has received the alarm signal.
- (5) The appliances shall continue to operate (**latch-in**) until manually reset at the receiver/control.

6.18. Mass Notification Systems. See Annex E.

Chapter 7 Notification Appliances for Fire Alarm Systems



7.1* Application.

7.1.1 The requirements of this chapter shall apply where required by the authority having jurisdiction or other governing codes or standards.

7.1.2 The requirements of this chapter shall address the reception of a notification signal and **not the signal's information content**.

7.1.3 The performance, location, and mounting of notification appliances used to initiate or direct evacuation or relocation of the occupants, or for providing information to occupants or staff, shall comply with this chapter.

7.1.4 The performance, location, and mounting of annunciators, displays, and printers used to display or record information for use by occupants, staff, responding emergency personnel, or supervising station personnel shall comply with this chapter.

7.1.5* The requirements of this chapter shall apply to the areas, spaces, or system functions where required by other parts of this Code, the authority having jurisdiction, or other codes and standards requiring compliance with this chapter.

7.1.6 The requirements of Chapter 4 and Chapter 6 shall apply to the interconnection of notification appliances, the control configurations, the power supplies, and the use of the information provided by notification appliances.

7.1.7 Notification appliances shall be permitted to be used **within buildings or outdoors** and to target the general building, area, or space, or only specific parts of a building, area, or space designated in **specific zones and sub-zones**.

7.2 Purpose. Notification appliances shall provide stimuli for initiating emergency action and provide information to users, emergency response personnel, and occupants.

7.3 General.

7.3.1 Listing. All notification appliances installed in conformity with Chapter 7 shall be listed for the purpose for which they are used.

7.3.2 Nameplates.

7.3.2.1 Notification appliances shall include on their nameplates reference to **electrical requirements** and rated **audible or visible performance**, or both, as defined by the listing authority.

7.3.2.2 Audible appliances shall include on their nameplates reference to their parameters or reference to installation documents (supplied with the appliance) that include the parameters in accordance with 7.4.2 or 7.4.3.

7.3.2.3 Visible appliances shall include on their nameplates reference to their parameters or reference to installation

documents (supplied with the appliance) that include the parameters in accordance with 7.5.2.1 or Section 7.6.

7.3.3 Physical Construction.

7.3.3.1 Appliances intended for use in **special environments**, such as outdoors versus indoors, high or low temperatures, high humidity, dusty conditions, and hazardous locations, or where subject to tampering, **shall be listed** for the intended application.



7.3.3.2* Notification appliances used for **signaling other than fire** shall not have the word **FIRE**, or any fire symbol, in any form (i.e., stamped, imprinted, etc.) on the appliance visible to the public. Notification appliances with multiple visible elements shall be permitted to have fire markings only on those visible elements used for fire signaling.

7.3.4* Mechanical Protection.

7.3.4.1 Appliances subject to mechanical damage shall be **suitably protected**.

7.3.4.2 If **guards, covers, or lenses** are employed, they shall be **listed** for use with the appliance.

7.3.4.3 The effect of guards, covers, or lenses on the appliance's field performance shall be in accordance with the listing requirements.

7.3.5 Mounting.

7.3.5.1 Appliances shall be **supported independently** of their attachments to the circuit conductors.

7.3.5.2 Appliances shall be mounted in accordance with the manufacturer's published instructions.



7.3.6* Connections. Terminals, leads, or addressable communication, which provide for **monitoring the integrity** of the notification appliance connections, shall be provided.

7.4 Audible Characteristics.

7.4.1 General Requirements.

7.4.1.1* An **average ambient sound level greater than 105 dBA** shall require the use of a visible notification appliance(s) in accordance with Section 7.5 where the application is public mode or Section 7.6 where the application is private mode.



7.4.1.2* The **total sound pressure level** produced by combining the **ambient sound pressure level** with all **audible notification appliances operating** shall not exceed **110 dBA** at the **minimum hearing distance**.



7.4.1.3* Sound from **normal or permanent sources**, having a **duration greater than 60 seconds**, shall be included when measuring maximum ambient sound level. Sound from **temporary or abnormal sources** shall **not be required** to be included when measuring maximum ambient sound level.



7.4.1.4* Where required, **voice communications systems** shall be capable of the reproduction of prerecorded, synthesized, or live (e.g., microphone, telephone handset, and radio) messages with **voice intelligibility**.

7.4.1.5 **Audible notification appliances** for alert and evacuation signal tones shall meet the requirements of 7.4.2 (Public Mode Audible Requirements), 7.4.3 (Private Mode Audible Requirements), 7.4.4 (Sleeping Area Requirements), or 7.4.5 (Narrow Band Tone Signaling for Exceeding Masked Thresholds), as applicable.



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NFPA Pocket Guide to Fire Alarm System Installation Merton W. Bunker, Jr., Richard J. Roux, 2006 Fully updated to reflect the provisions of the 2007 National Fire Alarm Code NFPA 72 and the 2005 National Electrical Code NFPA 70 this brand new edition provides all the information you need to design install or maintain fire alarm systems It has been reorganized to follow the order of topics presented within the NAFC and includes updated requirements for power supplies survivability and spacing of detectors and notification appliances

Handbook of Standards and Guidelines in Human Factors and Ergonomics Waldemar Karwowski, Anna Szopa, Marcelo M. Soares, 2021-06-28 With an updated edition including new material in additional chapters this one of a kind handbook covers not only current standardization efforts but also anthropometry and optimal working postures ergonomic human computer interactions legal protection occupational health and safety and military human factor principles While delineating the crucial role that standards and guidelines play in facilitating the design of advantageous working conditions to enhance individual performance the handbook suggests ways to expand opportunities for global economic and ergonomic development This book features Guidance on the design of work systems including tasks equipment and workspaces as well as the work environment in relation to human capacities and limitations Emphasis on important human factors and ergonomic standards that can be utilized to improve product and process to ensure efficiency and safety A focus on quality control to ensure that standards are met throughout the worldwide market

Consulting-specifying Engineer, 2009

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Cleaning with Solvents: Science and Technology John Durkee, 2013-11-29 High precision cleaning is required across a wide range of sectors including aerospace defense medical device manufacturing pharmaceutical processing semiconductor electronics etc Cleaning parts and surfaces with solvents is simple effective and low cost Although health and safety and environmental concerns come into play with the use of solvents this book explores how safe and compliant solvent based cleaning techniques can be implemented A key to this is the selection of the right solvent The author also examines a range of newer green solvent cleaning options This book supplies scientific fundamentals and practical guidance supported by real world examples Durkee explains the three principal methods of solvent selection matching of solubility parameters reduction of potential for smog formation and matching of physical properties He also provides guidance on the safe use of aerosols wipe cleaning techniques solvent stabilization economics and many other topics A compendium of blend rules is included covering the physical chemical and environmental properties of solvents Three methods explained in detail for substitution of suitable solvents for those unsuitable for any reason toxic solvents don't have to be tolerated this volume explains how to do better Enables users to make informed judgments about their selection of

cleaning solvents for specific applications including solvent replacement decisions Explains how to plan and implement solvent cleaning systems that are effective economical and compliant with regulations **Commerce Business Daily**,1998-10 Standard on Design of and Design Verification Tests for Fire Department Ground Ladders ,1999 Chemical Engineering ,2007 **Vertical File Index** ,2004 **NFPA 72 National Fire Alarm Code** NFPA (National Fire Prevention Association),2007 Sweet's General Building & Renovation ,1999 **NFPA 72 National Fire Alarm and Signaling Code Index Tabs** National Fire Protection Association,2021-10-25 **National Fire Alarm Code Handbook** Lee F. Richardson,Wayne D. Moore,2007-01-01 *Nfpa 72* NFPA (National Fire Prevention Association),2010 **Nfpa 72** NATL FIRE PROTECTION ASSOC,NFPA (National Fire Prevention Association),2002-01-01 *NFPA 72, National Fire Alarm and Signaling Code, Code and Handbook Set* National Fire Protection Association (NFPA),2021-11-20 NFPA 72 National Fire Alarm Code Handbook National Fire Protection Association,2002

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