

USAFP'S NFPA 25 INSPECTIONS, TESTING, & MAINTENANCE CHECKLIST

WEEKLY ITEMS

- ☒ Ensure all control valves are in proper position
- ☒ Verify temperature >40°F in valve enclosures
- ☒ Verify RPZ relief is not constantly discharging
- ☒ Check gauges to ensure the static water supply pressure & air pressure are normal

MONTHLY ITEMS

- ☒ Examine the exterior of dry, preaction, deluge, & alarm check valves
- ☒ Inspect the condition of the air compressors, wiring, air lines, & oil level

QUARTERLY ITEMS

- ☒ Visualize Fire Department Connections (FDC)
- ☒ Examine electronically supervised control valves
- ☒ Check sprinkler system pressure reducing & relief valves
- ☒ Visualize hose valves
- ☒ Inspect supervisory signal devices & waterflow alarm devices
- ☒ Main drain test for systems with backflow preventers
- ☒ Test mechanical water motor gong if present
- ☒ Test priming water level & quick opening devices on dry systems

SEMI-ANNUAL ITEMS

- ☒ Test vane type waterflow switches
- ☒ Test pressure type waterflow switches
- ☒ Test valve supervisory switches
- ☒ Verify nitrogen concentration in dry systems equipped with N2 generators

ANNUAL ITEMS

- ☒ Inspect sprinklers, exposed pipe, & fittings from floor level
- ☒ Inspect hose, hose cabinets, hose connections, nozzles, storage devices & stape piping
- ☒ Inspect hangers & bracing
- ☒ Inspect & flow hydrants
- ☒ Interior inspection of dry valves
- ☒ Verify proper signage is present
- ☒ Confirm proper number & type of spare sprinklers & proper wrenches
- ☒ Clean dry pipe valve internals
- ☒ Empty low point drains
- ☒ Operational test of Class I & Class III hose valves
- ☒ Test control valves
- ☒ Test any other supervisory signal devices
- ☒ Partial trip test of dry, preaction, and/or deluge valves
- ☒ Partial flow test of pressure regulating or pressure reducing valves
- ☒ Lubricate stems of OS&Y valves
- ☒ Lubricate hydrant stems, caps, plugs, & threads

3-YEAR ITEMS

- ☒ Operational test of Class II hose valves
- ☒ Full flow trip test of dry, preaction, &/or deluge valves
- ☒ Air leakage test on dry &/or preaction systems

5-YEAR ITEMS

- ☒ Internal inspection of pipe
- ☒ Internal inspection of non-externally resettable deluge, preaction, & check valves
- ☒ Internal inspection of strainers, filters, & orifices
- ☒ Test/Replace gauges
- ☒ Sample testing of extra high temperature heads exposed to maximum allowable temperature
- ☒ Sample testing of heads in harsh environments
- ☒ Full flow testing of private main hydrants
- ☒ Hydrostatic test of FDC piping
- ☒ Hydrostatic test of manual & semiautomatic dry stape systems
- ☒ Full flow of automatic stape systems

20-YEAR ITEMS

- ☒ Sample testing of dry sprinkler heads
- ☒ Sample testing of ESFR & CMSA with fast-response elements (Retest every 10 years)

25-YEAR ITEMS

- ☒ Sample testing of fast response sprinkler heads except ESFR & CMSA (Retest every 10 years)

50-YEAR ITEMS

- ☒ Sample testing of all sprinkler heads (Retest every 10 years until the system is 75 years old)

75-YEAR ITEMS

- ☒ Sample testing of all sprinkler heads (Retest every 5 years)



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Nfpa 25 Inspection Guidelines

Robert E. Solomon



Nfpa 25 Inspection Guidelines:

Nfpa 25: Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems, 2011 Edition
Nfpa, The 2011 NFPA 25 will raise confidence in every fire protection plan Sprinkler systems can reduce the average property loss by 71% in the event of a fire However improper maintenance can result in less sprinkler effectiveness or even failure Changes in NFPA 25 Standard for the Inspection Testing and Maintenance of Water Based Fire Protection Systems will help maintenance professionals inspectors and building owners keep systems ready to respond Revised Chapter One clarifies NFPA 25 s scope and purpose NFPA 25 is so essential to proper sprinkler care it s adopted by jurisdictions nationwide and NFPA 13 requires installers leave a copy of NFPA 25 with property owners Revised Chapter One clarifies the role NFPA 25 plays in a fire protection plan It s the only source for the latest rules on fire sprinkler systems including foam water and fixed water spray systems standpipe and hose systems fire pumps fire service piping and appurtenances and water storage tanks Major revisions New terms define critical deficiencies and noncritical deficiencies so maintainers and owners can determine corrective actions and prioritize repairs Updated testing frequencies are based on the growing database of inspection testing and maintenance records Maximize time and efficiency without compromising reliability Other revisions clarify the roles and responsibilities of the building owner and the designated owner s representatives This helps avoid critical oversights in sprinkler care Use all new Annex E classifies sprinkler repairs Real world examples of sprinkler repairs and their classifications are based on the new terms for critical and noncritical deficiencies The Hazard Evaluation Form in Annex F will help you identify how changes in building occupancy use or process or materials used or stored could impact the adequacy of the fire protection systems Be confident sprinklers will respond when needed Reduce

Guidelines for Mechanical Integrity Systems CCPS (Center for Chemical Process Safety),2017-04-11 In recent years process safety management system compliance audits have revealed that organizations often have significant opportunities for improving their Mechanical Integrity programs As part of the Center for Chemical Process Safety s Guidelines series Guidelines for Mechanical Integrity Systems provides practitioners a basic familiarity of mechanical integrity concepts and best practices The book recommends efficient approaches for establishing a successful MI program

Guidelines for Fire Protection in Chemical, Petrochemical, and Hydrocarbon Processing Facilities CCPS (Center for Chemical Process Safety),2010-08-13 While there are many resources available on fire protection and prevention in chemical petrochemical and petroleum plants this is the first book that pulls them all together in one comprehensive resource This book provides the tools to develop implement and integrate a fire protection program into a company or facility s Risk Management System This definitive volume is a must read for loss prevention managers site managers project managers engineers and EHS professionals Note CD ROM DVD and other supplementary materials are not included as part of eBook file

Guidelines for Asset Integrity Management CCPS (Center for Chemical Process Safety),2017-01-06 This book is an update and expansion of topics

covered in Guidelines for Mechanical Integrity Systems 2006 The new book is consistent with Risk Based Process Safety and Life Cycle approaches and includes details on failure modes and mechanisms Also example testing an inspection programs is included for various types of equipment and systems Guidance and examples are provided for selecting and maintaining critical safety systems *NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-based Fire Protection Systems* ,2007 Operation of Fire Protection Systems Arthur E. Cote,2003 Fire Science FESHE Fire and Life Safety Inspection Manual Robert J. Solomon,2012 Fire and Life Safety Inspection Manual Robert E. Solomon,2012 The Fire and Life Safety Inspection Manual Ninth Edition is the most up to date inspection reference manual for those interested in fire protection fire safety and life safety inspections It provides step by step guidance through the complete fire inspection process with special emphasis on life safety considerations This text identifies dangerous and hazardous conditions that could be encountered in a structure and spells out the chief areas the inspector should be focused on during an inspection Inspectors should use the Fire and Life Safety Inspection Manual Ninth Edition to identify existing deficiencies imminently dangerous conditions or a fault in a procedure or protocol that may result in a fire Six new chapters have been added to make sure fire inspectors have the knowledge and resources available to effectively conduct all types of fire inspections These new chapters include Chapter 5 Certification and Training for Inspectors Chapter 6 Green Technologies and the Inspector Chapter 24 Commissioning Process for Fire Protection Systems Chapter 25 Accessibility Provisions Chapter 26 Grass Brush and Forest Fire Hazards Chapter 27 Tunnels More than three hundred codes and standards form the basis for the criteria recommendations and requirements that are found throughout the text Early chapters provide important background information while the second half presents inspection guidelines for specific fire protection systems and occupancies that are based on the Life Safety Code R This text is packaged with an access code that provides free access to easy to follow checklists to help you remember and record every important detail Whether you re just starting your career as a fire inspector or ready to brush up on the basics the Fire and Life Safety Inspection Manual Ninth Edition has the reliable inspection advice you need *Manager's Guide to Preventive Building Maintenance* Ryan Cruzan,2020-11-26 This book is a comprehensive guide for developing an effective preventive maintenance program for any facility Topics include facility inspection and assessment effective lubrication practices commercial roofing repair indoor air quality management applicable government codes standards and regulations detailed preventive maintenance procedures and maintenance scheduling Specific maintenance approaches are examined for more than 100 types of equipment and building components Also discussed are the economic value of preventive maintenance management and motivation of the preventive maintenance team and setting up a computerized maintenance management system CMMS **"Code of Massachusetts regulations, 2014"** ,2014 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **Fire Officer's Guide to Occupational Safety & Health** Ron Kanterman,2019-02-22

There has to be accountability at every level of the organization from the chief to the rookie Company officers have to step up and remind those under their command of safe operations and related procedures Accountability at all levels is key to the success of any program and it is the key to survival when it comes to firefighter safety Chief Ron Kanterman's Fire Officer's Guide to Occupational Safety Health is a guide to safe operations and a healthy work force Who needs this book Fire chiefs fire officers incident safety officers and health and safety officers Why To gain the tools they need to operate the department within some acceptable parameters of safety and occupational health Ask yourself these questions Have you made firefighter safety and health a primary value of your organization Is there a culture of safety in your fire department Do the chief and line officers walk the walk and talk the talk Key concepts and resources Risk management Personnel protection protecting the protectors Scene safety The 16 Life Safety Initiatives and The Courage to be Safe Everyone Goes Home program Training Occupational safety and health Fitness Codes and standards that dictate and or assist within the genre of health and safety

Code of Federal Regulations, 2005 [Code of Federal Regulations](#) United States. Department of Veterans Affairs, 1982 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of July 1 with ancillaries *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 [The Code of Federal Regulations of the United States of America](#), 2006 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government

MEP Operation & Maintenance Manuals: A Comprehensive Guide Charles Nehme , In the intricate world of modern architecture and construction a building is far more than just steel glass and concrete It is a living breathing entity powered by a complex network of Mechanical Electrical and Plumbing MEP systems that dictate its comfort safety and operational efficiency While significant resources are often dedicated to the design and construction phases of a building's life the long term success sustainability and value of these structures fundamentally hinge on one often underestimated element the comprehensive Operation it is the definitive roadmap to a building's optimal performance a critical tool for

ensuring the longevity of its assets and an indispensable guide for maintaining occupant health safety and comfort It bridges the gap between design intent and operational reality empowering facility managers and maintenance teams to unlock the full potential of complex MEP installations This book is born from over thirty years of hands on experience in the global HVAC and MEP consulting field spanning a diverse range of projects from industrial complexes to commercial high rises and intricate residential developments across various international markets It consolidates practical insights industry best practices and a deep understanding of the challenges faced by those tasked with operating and maintaining modern building systems Our aim is to demystify the process of creating implementing and utilizing effective O M manuals We will explore not only the what but also the why and the how guiding readers through the essential components best practices for data collection and organization and the integration of these manuals into a holistic building management strategy From the fundamental principles of each MEP discipline mechanical electrical and plumbing to the critical aspects of fire protection life safety and the role of advanced building management systems each chapter is designed to provide actionable knowledge Ultimately this guide seeks to elevate the perception and utility of MEP O M manuals from mere documentation to indispensable operational assets By investing in well structured comprehensive and accessible manuals building owners and operators can ensure optimal system performance extend equipment lifespan minimize operational costs enhance safety and contribute significantly to a building s overall sustainability and value for decades to come Charles Nehme

Code of Federal Regulations, Title 29, Labor, Pt. 1911-1925, Revised As of July 1 2012 Office of the Federal Register (U.S.) Staff,2012-09-17 *Code of Federal Regulations, Title 29, Labor, Pt. 1911-1925, Revised as of July 1, 2010* ,2010-09-24

Fundamentals of Fire Protection for the Safety Professional Lon H. Ferguson,Christopher A. Janicak,2015-04-27 Fundamentals of Fire Protection for the Safety Professional provides safety managers with a guide for incorporating fire hazard awareness and protection into their safety management plans Industrial fires pose one of the greatest threats to organizations in terms of financial human and property losses Understanding fire safety basics the physics of fire and the properties and classes of common hazards is key to designing fire safety management programs that not only protect an organization s assets but also ensure the safe evacuation of all involved Fundamentals of Fire Protection for the Safety Professional takes an in depth look at fire hazards in the workplace from the substances required to do business to the building construction itself and provides practical fire safety principles that can be applied in any work environment Readers will learn how to develop emergency action plans and fire prevention plans implement effective alarm and detection systems and fire extinguishment systems and develop a comprehensive fire program management plan that is in compliance with Federal Emergency Management Agency Occupational Safety and Health Administration Environmental Protection Agency and National Fire Protection Association standards Each chapter includes a chapter summary and sample problems making this an ideal training tool in the workplace or the classroom Answers to chapter questions and a comprehensive glossary and

index are provided at the end of the book

Analyzing the Hospital Life Safety Survey Brad Keyes, 2011

Decoding **Nfpa 25 Inspection Guidelines**: Revealing the Captivating Potential of Verbal Expression

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