

SUMMARY OF DIFFERENCES

NFPA 13, NFPA 13R, & NFPA 13D

Unlike NFPA 13, NFPA 13R works to make the installation of the sprinkler system more affordable and accessible for residential occupancies by targeting the areas of highest fire risk to life safety with sprinkler systems. Swapping NFPA 13 and NFPA 13R is not simply a one-for-one exchange, as their goals are overall quite different. NFPA 13D, by extension, is the least restrictive standard and intended for one or two family residential properties.

References to the building code are to the International Building Code, as it's typically the most prevalent used in the US. As always, there's far more detail to many of these requirements than can be summarized in two pages - so be sure to use the supplied section references to gather more information on specifics for your project.

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CODE PLANNING

	NFPA 13 Life Safety + Property Protection [NFPA 13 2002-2019 1.2.1]	NFPA 13R Life Safety Only [NFPA 13R 2002-2019 1.2]	NFPA 13D Life Safety Only [NFPA 13D 2002-2019 1.2.1]
Considered "Fully-Sprinklered" for Code Purposes?	Yes [IBC ref. section 903.1.1 as fully-sprinklered]	No	No
Building Height Increases Permitted?	Yes [IBC Table 504]	Only for R-Occupancy [IBC Table 504]	No
Permitted in One & Two-Family, or Group R-3 & R-4 Condition 1 and townhouse R-Occupancies?	Yes [IBC 903.1.1]	Yes [IBC 903.1.2]	Yes [IBC 903.3.1.3]
Permitted in R-Occupancies up to 4 stories?	Yes [IBC 903.1.1]	Yes [IBC 903.1.2]	No
Permitted in Mixed Use / Non-Residential Occupancies?	Yes [IBC Table 508.4, 508.3.1]	No [IBC 903.1.2]	No

Nfpa 13 Design Guide

Yi-Tong Ma



Nfpa 13 Design Guide:

Technical Standards and Design Guidelines Ranjit Gunewardane, 2018-08-13 Retail restaurants offices hotel residential conference and exhibition centers and parking are typically being built as part of one large complex Increasing complexities occur as more and more various types of occupancies are combined into the same buildings A rapidly developing trend is a desire for mixed use spaces to support lifestyle activities An increasing number of people are working from home so they need flexible mixed use spaces that can accommodate their lifestyle People are on the lookout for more luxury amenities such as full fitness and yoga studios conference centers with commercial kitchens rooftop pools and spas and lobby bars and coffee shops This *Technical Standards and Design Guidelines* TSDGs contains information intended as minimum standards for constructing and equipping new Mixed Use Building projects Insofar as practical these standards relate to desired performance or results or both Details of Architectural and Engineering are assumed to be part of good design practice and local building regulations This document covers mixed use building facilities common to a multitude of individual facilities Facilities with unique services will require special consideration However sections herein may be applicable for parts of any facility and may be used where appropriate The Property Developer will supply for each project a functional program for the facility that describes the purpose of the project the projected demand or utilization The TSDG includes a description of each function or service the operational space required for each function the types of all spaces the special design features the systems of operation and the interrelationships of various functions and spaces The functional program includes a description of those services necessary for the complete operation of the facility The functional programs could be applied in the development of project design and construction documents These standards assume that appropriate architectural engineering and technology practices and compliance with applicable codes will be observed as part of normal professional service and require no separate detailed instructions Specialist designers adopting the TSDGs are encouraged to apply design innovations and the property developer to grant exceptions where the intent of the standards is met Sustainability and Energy Conservation Energy efficiency being a part of the building code requirement in many states the trend is moving toward achieving it Higher performing building envelopes and higher performing HVAC and lighting systems are some of the essential components to meet current energy codes The importance of Environmental Sustainability and Energy Conservation is fully considered in all phases of facility design development Proper planning and selection of building materials mechanical and electrical systems as well as efficient utilization of space and climatic characteristics that will significantly reduce overall energy consumption are fully described The quality of the building facility environment is undoubtedly supportive of the occupants and functions served New and innovative systems that accommodate these considerations while preserving cost effectiveness has been encouraged Architectural elements that reduce energy consumption are considered part of the TSDG In addition to Energy Conservation buildings will be designed to minimize

water consumption and operating costs without reducing occupancy standards occupant health safety or comfort Water conservation measures such as water recycling including gray water and rain water collection water purification and sewerage recycling are included for consideration and recommendation in the project specific building energy brief The integration of innovative water efficiency measures such as storm water management rainfall capture treated effluent reuse roof gardens and other alternative sources of water supply are fully described Technology In todays ever changing environment technological standardization and integration of systems is essential Technology is viewed as a competitive tool that contributes to the improvement of building occupant services and operating efficiencies As the importance of access to information increases so do customer demands for such services The Intelligent Buildings Market is a rapidly evolving segment that is being influenced by a number of emerging trends Mobile communications connect people to work entertainment and each other in ways that boost productivity and enhance lives Both Operational Technology OT and Informational Technology IT have entirely changed and it will change even more as we get deeper into the Internet of Things IOT In Building Wireless IBW communications provide the critical link to enable the use of cell phones pagers PDAs two way radios wireless LANs emergency communications and wireless building system devices within an enclosed structure The technology disciplines telecom security building automation and lighting have been going through a convergence over the past several years with telecom wired and wireless networks becoming the common utility for all the technology disciplines

United States Border Station Design Guide ,1992 **The Seismic Design Handbook** Farzad Naeim,2001-03-31

The Seismic Design Handbook is a primary resource for both researchers and teachers in the field of earthquake resistant design The first edition of this handbook was received with much enthusiasm It is the de facto textbook for teaching seismic design principles at many major universities In the United States UC Berkeley Stanford UCLA University of Southern California SUNY Buffalo the University of Illinois Washington University the University of Texas at Austin Georgia Tech Cornell and the University of Michigan have adopted the text Abroad the Imperial College of London and the Israel Institute of Technology are among its adopters This second edition contains up to date information on planning analysis and design of earthquake resistant building structures Its intention is to provide engineers architects developers and students of structural engineering and architecture with authoritative yet practical design information It bridges the gap between advances in the theories and concepts of seismic design and their implementation in practice This handbook has been endorsed by the International Conference of Building Officials Audience The Seismic Design Handbook is a must for practicing engineers architects building officials developers teachers and students in the field of earthquake resistant building design Its distinguished panel of contributors is made up of 22 experts from industry and universities recognized for their knowledge and extensive practical experience in their fields *Metric Guide for Federal Construction and Metric Design Guide* DIANE Publishing Company,1994-05 **ASTM's Role in Performance-based Fire Codes and Standards** John Raymond

Hall,1999 From the December 1998 symposium of the same name come 11 contributions which explore the role ASTM an international developer of technical and materials standards can play in the propagation of performance based fire codes and standards in the United States and Canada codes and standards already *Guidelines for Engineering Design for Process Safety* CCPS (Center for Chemical Process Safety),2010-10-12 Inherently safer plants begin with the initial design Here is where integrity and reliability can be built in at the lowest cost and with maximum effectiveness This book focuses on process safety issues in the design of chemical petrochemical and hydrocarbon processing facilities It discusses how to select designs that can prevent or mitigate the release of flammable or toxic materials which could lead to a fire explosion or environmental damage All engineers on the design team the process hazard analysis team and those who make basic decisions on plant design will benefit from its comprehensive coverage its organization and the extensive references to literature codes and standards that accompany each chapter SFPE Handbook of Fire Protection Engineering Morgan J. Hurley, Daniel T. Gottuk, John R. Hall Jr., Kazunori Harada, Erica D. Kuligowski, Milosh Puchovsky, José L. Torero, John M. Watts Jr., CHRISTOPHER J. WIECZOREK,2015-10-07 Revised and significantly expanded the fifth edition of this classic work offers both new and substantially updated information As the definitive reference on fire protection engineering this book provides thorough treatment of the current best practices in fire protection engineering and performance based fire safety Over 130 eminent fire engineers and researchers contributed chapters to the book representing universities and professional organizations around the world It remains the indispensable source for reliable coverage of fire safety engineering fundamentals fire dynamics hazard calculations fire risk analysis modeling and more With seventeen new chapters and over 1 800 figures the this new edition contains Step by step equations that explain engineering calculations Comprehensive revision of the coverage of human behavior in fire including several new chapters on egress system design occupant evacuation scenarios combustion toxicity and data for human behavior analysis Revised fundamental chapters for a stronger sense of context Added chapters on fire protection system selection and design including selection of fire safety systems system activation and controls and CO2 extinguishing systems Recent advances in fire resistance design Addition of new chapters on industrial fire protection including vapor clouds effects of thermal radiation on people BLEVEs dust explosions and gas and vapor explosions New chapters on fire load density curtain walls wildland fires and vehicle tunnels Essential reference appendices on conversion factors thermophysical property data fuel properties and combustion data configuration factors and piping properties Three volume set not available separately 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 Designer's Guide to Automatic Sprinkler Systems Robert M. Gagnon,2005 *Design Guide to the 1991 Uniform Building Code* Alfred Goldberg,1991-04-15 Incorporates code revisions adopted in the past three years that are of particular concern to the designer Covers new accessibility requirements all occupancies provisions for a new residential division regarding congregate housing vertical spread of flame barrier requirements design criteria for vehicle barriers in parking structures and much more This edition has been revised and reorganized for quicker easier and more efficient reader use *Design Guide for Category IV Reactors* ,1979 Guidelines for Design of Low-Rise Buildings Subjected to Lateral Forces Ajaya Kumar Gupta,Peter James Moss,2020-11-25 Guidelines for Design of Low Rise Buildings Subjected to Lateral Forces is a concise guide that identifies performance issues concerns and research needs associated with low rise buildings The book begins with an introduction that discusses special problems with low rise buildings subjected to wind and earthquakes Chapter 2 examines probabilistic methods and their use in evaluating risks from natural hazards It also addresses the characteristics of wind and seismic forces and levels of risk implied by building codes Wind forces are covered in more detail in Chapter 3 with discussions of wind force concepts and wind structure interactions Chapter 4 is devoted to earthquake forces and traces the development of building codes for earthquake resistant design Chapter 5 describes the main framing systems used to resist lateral forces and discusses the code requirements for drift control The designs and requirements for connections between building elements are addressed in Chapter 6 It includes examples along with several illustrations of suitable connections The performance of non structural elements during wind and earthquake forces is also examined in detail This book serves as an important reference for civil engineers construction engineers architects and anyone concerned with structural codes and standards It is an excellent guide that can be used to supplement design recommendations and provide a design basis where there are no current requirements Good Design Practices for GMP Pharmaceutical Facilities Terry Jacobs,Andrew A. Signore,2016-08-19 This revised publication serves as a handy and current reference for professionals engaged in planning designing building validating and maintaining modern cGMP pharmaceutical manufacturing facilities in the U S and internationally The new edition expands on facility planning with a focus on the ever growing need to modify existing legacy facilities and on current trends in pharmaceutical manufacturing which include strategies for sustainability and LEED building ratings All chapters have been re examined with a fresh outlook on current good design practices **Index of Specifications and Standards** ,2005 *Guidelines for Process Safety in Batch Reaction Systems* CCPS (Center for Chemical Process Safety),2010-08-31 Batch reaction systems pose unique challenges to process safety managers because they do not operate in a steady state The sequence of processing steps and frequent start ups and shutdowns increase the possibility of human errors and equipment failures And since batch plants are often designed for shared use frequent modification of piping and layout may occur

resulting in complex management of change issues This book identifies the singular concerns of batch reaction systems including potential sources of unsafe conditions and provides a how to guide for the practicing engineer in dealing with them by applying appropriate practices to prevent accidents

Planning and Design Guidelines for Airport Terminal Facilities United States. Federal Aviation Administration,1988

Evaluation of Fire Flow Methodologies Matthew E. Benfer,Joseph L. Scheffey,2015-08-08 This SpringerBrief offers careful assessments of the appropriateness and effectiveness of currently available methodologies for fire flow It explains the water supply requirements for firefighting including rate of flow the residual pressure required at that flow and the duration that is necessary to control a major fire in a specific structure First reviewing existing fire flow calculation methodologies in the U S and globally the authors determine the new information necessary to validate the existing fire flow calculation methodologies After identifying 19 methods from the U S UK France Germany the Netherlands New England and Canada two types of methods are evaluated those for building planning based on fire and building code requirements and those for on scene fire service use Building planning methods are also examined including an explanation of the range of building variables that determine fire flow A survey form for fire departments is provided to help fire departments identify key predictive features based on construction and building parameters Researchers and professionals in fire engineering will find the recommendations in Evaluation of Fire Flow Methodologies valuable

Handbook of Lubrication and Tribology George E. Totten,2006-04-06 When it was first published some two decades ago the original Handbook of Lubrication and Tribology stood on technology s cutting edge as the first comprehensive reference to assist the emerging science of tribology lubrication Later followed by Volume II Theory and Design and Volume III Monitoring Materials Synthetic Lubricants and Applications it has continued to serve as the cornerstone of every tribology and lubrication science library providing engineers researchers and technicians with the information they need to do their work and pioneer the advancements that have dramatically reshaped this field Now due to those advances the time has come to retool tribology s master text In addition to offering tribologists the facts figures and equations they need everyday Volume I Application and Maintenance Second Edition positions itself at the forefront of the field to address the latest technology related to application and maintenance procedures as well as changes in our understanding of how lubrication principles impact implementation Completely reorganized to aid the reader in identifying chapters and topics of interest every one of the chapters retained from the first edition has either been fully updated and revised or completely rewritten by a peer recognized team of experts who are currently active in a wide variety of industry segments With the addition of several new subject areas it now boasts a total of 37 chapters

Guidelines for Safe Handling of Powders and Bulk Solids CCPS (Center for Chemical Process Safety),2010-08-13 Powders and bulk solids handled widely in the chemical pharmaceutical agriculture smelting and other industries present unique fire explosion and toxicity hazards Indeed substances which are practically inert in consolidated form may become quite hazardous when

converted to powders and granules The U S Chemical Safety and Hazard Investigation Board is currently investigating dust explosions that occurred in 2003 at WestPharma CTA Acoustics and Hayes Lemmerz and is likely to recommend that companies that handle powders or whose operations produce dust pay more attention to understanding the hazards that may exist at their facility This new CCPS guidelines book will discuss the types of hazards that can occur in a wide range of process equipment and with a wide range of substances and will present measures to address these hazards *Energy Research Abstracts* ,1992

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